C/ FM SC FM P1 **L10** # 147 C/ FM SC FM P1 L24 # 86 Marris, Arthur Cadence Design Systems Grow, Robert **RMG** Consulting Comment Type ER Comment Status A Amd Comment Type Comment Status A Amd State this is amendment 11 and list the prior amendments The paragraph is dated. On the date of this comment, we now have 9 approved amendments, 6 of which are published, and at least 2 amendments likely to receive SuggestedRemedy amendment numbers 10 and 11 that are ahead of the 3 projects in initial WG ballot. "Amendment: 11" - "This draft is an amendment of IEEE Std 802.3-2018 as amended by SuggestedRemedy IEEE Std 802.3cb-2018, IEEE Std 802.3bt-2018, IEEE Std 802.3cd-2018, IEEE Std Add IEEE Std 802.3cr-20xx to the list as the 10th amendment (before IEEE Std 802.3cu-802.3cn-2019, IEEE Std 802.3cg-2019, IEEE Std 802.3cg-2020, IEEE Std 802.3cm-2020, IEEE Std 802.3ch-2020, IEEE Std 802.3ca-2020, and IEEE Std 802.3cr-20xx" 20xx). Response Response Status C Response Response Status W ACCEPT IN PRINCIPLE. ACCEPT. See #147 Group comments #147, 86, 50, 68, 281 Group comments #147, 86, 50, 68, 281 C/ FM SC FM P1 L13 # 11 C/ FM SC FM P1 L24 # 68 Charter Hajduczenia, Marek Xilinx Nicholl, Shawn Comment Type E Comment Status A Comment Status A Comment Type ER Amd Suggest to break title before "and 50" Missing some existing amendments in the frontmatter. SuggestedRemedy SuggestedRemedy Insert line break before "and 50" to make title look a bit better Propose to replace ", and IEEE Std 802.3cd-2018" with ",IEEE Std 802.3cd-2018, IEEE Std Response Response Status C 802.3cn-2019. IEEE Std 802.3ca-2019. IEEE Std 802.3ca-2020. IEEE Std 802.3cm-2020" as well as any other relevant in-progress amendments. ACCEPT. Response Response Status W C/ FM SC FM P1 1 23 # 50 ACCEPT IN PRINCIPLE. Lewis. Jon Dell FMC See #147 Comment Type ER Comment Status A Amd Group comments #147, 86, 50, 68, 281 The list of "as amended by" is not up to date. C/ FM SC FM P1 / 24 SuggestedRemedy Please align with the latest FM template available on the website. This should at a Lewis, Jon Dell EMC minimum include "IEEE Std 802.3cb-2018, IEEE Std 802.3bt-2018, IEEE Std 802.3cd-Comment Type Ε Comment Status A D2p1 2018, IEEE Std 802.3cn-2019, IEEE Std 802.3cq-2019, IEEE Std 802.3cq-2020, and IEEE This draft is for Initial Working Group ballot Std 802.3cm-2020" SuggestedRemedy Response Response Status W Change "Draft D1.3 is prepared for Task Force review [review/balloting stage]" to "Draft ACCEPT IN PRINCIPLE. D2.1 is prepared for the the first Working Group recirculation ballot" See #147 Response Response Status C Group comments #147, 86, 50, 68, 281 ACCEPT Group comments #51, 12, 283, 284

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/ FM SC FM Page 1 of 53

7/15/2020 4:10:54 PM

C/ FM SC FM	P1	L 24	# 12	C/ FM SC FM	P1	L 24	# 281	
Hajduczenia, Marek	Charter			Dawe, Piers	Nvidia			
Comment Type ER This is not draft D1.3	Comment Status A		D2p1	Comment Type E Comm	nent Status A cation process]		LATE	
SuggestedRemedy				SuggestedRemedy				
FM summary must be t	filled in as well			Populate it now, consistent with I		essary, say that th	ne list may be	
Response Response Status C				amended during the publication process.				
ACCEPT IN PRINCIPL	E.			Response Respon ACCEPT IN PRINCIPLE.	nse Status C			
See #51 Group comments #51,	12, 283, 284			See #147 Group comments #147, 86, 50, 6	38, 281			
C/ FM SC FM	P 1	L 24	# 283	C/ FM SC FM	P1	L25	# 284	
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia			
Comment Type E D1.3	Comment Status A		LATE	Comment Type E Comm [review/balloting stage]	nent Status A		LATE	
SuggestedRemedy Would be D2.1 next tim	ne			SuggestedRemedy Delete				
Response ACCEPT IN PRINCIPL	Response Status C .E.			Response Respon	nse Status C			
See #51 Group comments #51,	12, 283, 284			See #51 Group comments #51, 12, 283, 2	284			
C/ FM SC FM	P1	L 24	# 282					
Dawe, Piers	Nvidia							
Comment Type E [complete]	Comment Status D		LATE					
SuggestedRemedy Complete it								
Proposed Response	Response Status W							

PROPOSED ACCEPT IN PRINCIPLE.

optical access networks."

Propose to complete this setence as "The purpose of the amendment is to specify 10 Gb/s, 25 Gb/s, and 50 Gb/s Ethernet bidirectional physical layers on point-to-point

C/ FM SC FM P2 L1 # 99 C/ FM SC FM P2 **L1** # 6 Wienckowski. Natalie General Motors Anslow, Pete Self Comment Type E Comment Status A Abs Comment Type ER Comment Status D Abs Abstract needs to be completed. The abstract and keywords are not populated SuggestedRemedy SuggestedRemedy Change: Abstract: This amendment to IEEE Std 802.3-2018 [abstract text]. Add appropriate abstract text and suitable keywords To: Abstract: This amendment to IEEE Std 802.3-2018 adds bidirectional 10 Gb/s, 25 Proposed Response Response Status W Gb/s, and 50 Gb/s Optical Access PHYs. PROPOSED ACCEPT IN PRINCIPLE Response Response Status C ACCEPT IN PRINCIPLE. See#99. 100 Comment group #99, 285, 6, 148, 87, 13, 100, 286, 88 Change abstract to: This amendment to IEEE Std 802.3-2018 adds bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s C/ FM SC FM L1 # 148 P2 Optical Access PHYs. Marris. Arthur Cadence Design Systems Editor to add new clause summary as other amd to abstract. Comment Type ER Comment Status D Abs Comment group #99, 285, 6, 148, 87, 13, 100, 286, 88 Missing abstract text / 1 C/ FM SC FM P2 # 285 SuggestedRemedy Add abstract text Dawe, Piers Nvidia Proposed Response Comment Type Ε Comment Status D LATE Response Status W PROPOSED ACCEPT IN PRINCIPLE. Abstract SuggestedRemedy See#99, 100 Write it Comment group #99, 285, 6, 148, 87, 13, 100, 286, 88 Proposed Response Response Status W C/ FM SC FM P2 L1 # 87 PROPOSED ACCEPT IN PRINCIPLE. Grow, Robert **RMG** Consulting Comment Status D See#99, 100 Comment Type E Abs Comment group #99, 285, 6, 148, 87, 13, 100, 286, 88 Front matter is incomplete. SuggestedRemedy Add Abstract. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See#99. 100 Comment group #99, 285, 6, 148, 87, 13, 100, 286, 88

C/ FM SC FM P2 *L*1 # 13 C/ FM SC FM P2 L2 # 286 Hajduczenia, Marek Charter Dawe, Piers Nvidia LATE Comment Type ER Comment Status D Abs Comment Type Comment Status D Abstract and keywords should be filled in at this time Keywords SuggestedRemedy SuggestedRemedy Please fill in abstract and keywords List them Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT IN PRINCIPLE PROPOSED ACCEPT IN PRINCIPLE See#99. 100 See #99, 100 Comment group #99, 285, 6, 148, 87, 13, 100, 286, 88 Comment group #99, 285, 6, 148, 87, 13, 100, 286, 88 C/ FM SC FM C/ FM SC FM L3 # 88 P2 L2 # 100 P2 **RMG** Consulting Wienckowski. Natalie **General Motors** Grow. Robert Comment Type E Comment Status D Abs Comment Type E Comment Status D Abs Keywords need to be completed. Front matter is incomplete. SuggestedRemedy SuggestedRemedy Change: Keywords: Ethernet; [keywords list]. Add Keywords. To: Keywords: Ethernet, rrGBASE-BRx-d, 10GBASE-BR10, 10GBASE-BR20, 10GBA Proposed Response Response Status W BR40, and 10GBASE-BR40+, 25GBASE-BR10, 25GBASE-BR20, 25GBASE-BR40, and PROPOSED ACCEPT IN PRINCIPLE. 25GBASE-BR40+, 50GBASE-BR10, 50GBASE-BR20, 50GBASE-BR40, and 50GBASE-BR40+, IEEE 802.3cp™ See #99, 100 Proposed Response Response Status W Comment group #99, 285, 6, 148, 87, 13, 100, 286, 88 PROPOSED ACCEPT IN PRINCIPLE. C/ FM SC FM P**7** L4 # 89 Keywords: Eth, BiDi, 802.3cp Grow, Robert **RMG** Consulting Editor to check and align to other amd (ca. cn) Comment Status A Comment Type E Comment group #99, 285, 6, 148, 87, 13, 100, 286, 88 This number of this standard is known. SuggestedRemedy 802.3cp Response Response Status C

ACCEPT.

C/ FM SC FM P7 **L9** # 146 C/ FM SC FM P**7** L19 # 90 Lusted, Kent Intel Corporation Grow, Robert RMG Consulting Comment Type ER Comment Status D Comment Type E Comment Status A The IEEE 802.3 WG Recording Secretary is now "Jon Lewis", not "Pete Anslow" The WG ballot group list is now known. SuggestedRemedy SuggestedRemedy Change to "Jon Lewis" Fill in WG list. Proposed Response Response Response Status C Response Status W PROPOSED ACCEPT ACCEPT IN PRINCIPLE Add WG ballot group member list when D2.0 was announced on Page 7 C/ FM SC FM P7 L9 # 49 Dell EMC Lewis, Jon C/ FM SC FM P9 L4 # 101 Comment Type ER Comment Status A Wienckowski. Natalie General Motors Pete Anslow is no longer the 802.3 WG secretary Comment Type E Comment Status D SuggestedRemedy Amendment title is not added in box. Change "Pete Anslow" to "Jon Lewis" SuggestedRemedy Response Response Status W Change: Amendment: Amendment title (copy from PAR). To: Amendment: Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs ACCEPT. Proposed Response Response Status W C/ FM SC FM **P7** L15 # 14 PROPOSED ACCEPT. Hajduczenia, Marek Charter C/ FM SC FM P9 L29 # 102 Comment Status A Comment Type E When editor is change, it is usual to designate them separately as Phase 1 and Phase 2 Wienckowski. Natalie General Motors editors Comment Type E Comment Status D SuggestedRemedy Ammendment identifier not added. Per comment SuggestedRemedy Response Response Status C Change: IEEE Std 802.3xx-20xx To: IEEE Std 802.3cp-20xx ACCEPT IN PRINCIPLE. Proposed Response Response Status W Follow example in 802.3cb PROPOSED ACCEPT. See #231

C/ FM SC FM P10 L 1 # 15 Hajduczenia, Marek Charter Comment Type ER Comment Status A Front Matter is not up to date SuggestedRemedy Update FM text and content to match the latest amendments published. Yes, it is a constant process. Response Response Status C ACCEPT.

C/ FM SC FM P10 L47 # 149

Marris, Arthur Cadence Design Systems

Comment Type ER Comment Status D 4to10

This list is missing amaendments 4 to 10

SuggestedRemedy

Add descriptions of amendments 4 to 10

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7, 158

C/ FM SC FM P10 L48 # 107

Wienckowski, Natalie General Motors

Comment Type E Comment Status D 4to10

Missing ammendment descriptions

SuggestedRemedy

Add: IEEE Std 802.3ch™-2020

Amendment 8—This amendment includes changes to IEEE Std 802.3-2018 and adds Clause 149, Annex 149A, Annex 149B, and Annex 149C. This amendment adds physical layer specifications and management parameters for operation at 2.5 Gb/s, 5 Gb/s, and 10 Gb/s over a single balanced pair of conductors.

Proposed Response Response Status W

PROPOSED ACCEPT.

Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7, 158

CI FM SC FM P10 L48 # 104

Wienckowski, Natalie General Motors

Comment Type E Comment Status D 4to10

Missing ammendment descriptions

SuggestedRemedy

Add: IEEE Std 802.3ca™-2019

Amendment 5—This amendment includes changes to IEEE Std 802.3-2018 and its amendments and adds Clause 146 through Clause 148 and Annex 146A and Annex 146B. This amendment adds 10 Mb/s Physical Layer specifications and management parameters for operation on a single balanced pair of conductors.

Proposed Response Response Status W
PROPOSED ACCEPT

I NOI GOLD AGOLI 1.

Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7, 158

C/ FM SC FM P10 L48 # 105
Wienckowski, Natalie General Motors
Comment Type E Comment Status D 4to10

Missing ammendment descriptions

SuggestedRemedy

Add: IEEE Std 802.3cg™-2020

Amendment 6—This amendment includes editorial and technical corrections, refinements, and clarifications to Clause 33 and related portions of the standard.

Proposed Response Status W

PROPOSED ACCEPT.

Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7, 158

C/ FM SC FM P10 L48 # 103
Wienckowski, Natalie General Motors
Comment Type E Comment Status D 4to10

Missing ammendment descriptions

SuggestedRemedy

Add: IEEE Std 802.3cn™-2019

Amendment 4—This amendment includes changes to IEEE Std 802.3-2018 and adds 50 Gb/s, 200 Gb/s, and 400 Gb/s Physical Layer specifications and management parameters for operation over single-mode fiber with reaches of at least 40 km.

Proposed Response Status W

PROPOSED ACCEPT.

Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7

C/ FM SC FM P10 L48 # 108
Wienckowski, Natalie General Motors

Comment Type E Comment Status D 4to10

Missing ammendment descriptions

SuggestedRemedy

IEEE Std 802.3ca™-2020

Amendment 9—This amendment to IEEE Std 802.3-2018 extends the operation of Ethernet Passive Optical Networks (EPONs) to multiple channels of 25 Gb/s providing both symmetric and asymmetric operation for the following data rates (downstream/upstream): 25/10 Gb/s, 25/25 Gb/s, 50/10 Gb/s, 50/25 Gb/s, and 50/50 Gb/s. This amendment specifies the 25 Gb/s EPON Multi-Channel Reconciliation Sublayer (MCRS), 25GBASE-Nx25G-EPON PHYsical Coding Sublayers (PCSs), Physical Media Attachments (PMAs), and Physical Medium Dependent sublayers (PMDs) that support both symmetric and asymmetric data rates while maintaining backward compatibility with already deployed 10 Gb/s EPON equipment. The EPON operation is defined for distances of at least 20 km, and for a split ratio of at least 1:32.

Proposed Response Status W

PROPOSED ACCEPT.

Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7, 158

CI FM SC FM P10 L48 # 106

Wienckowski, Natalie General Motors

Comment Type E Comment Status D 4to10

Missing ammendment descriptions

SuggestedRemedy

Add: IEEE Std 802.3cm™-2020

Amendment 7—This amendment includes changes to IEEE Std 802.3-2018 and adds Clause 150. This amendment adds Physical Layer (PHY) specifications and management parameters for 400 Gb/s operation on four pairs (400GBASE-SR4.2) and eight pairs (400GBASE-SR8) of multimode fiber, over reaches of at least 100 m.

Proposed Response Response Status W

PROPOSED ACCEPT

Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7, 158

C/ FM SC FM P10 L49 # 91

Grow, Robert RMG Consulting

Comment Type TR Comment Status A

Incomplete list of amendment descriptions, including a self description for IEEE Std 802.3cp-20xx which others can copy into their front matter.

SuggestedRemedy

Add amendments 4 through 9 at a minimum, copying from the published or approved drafts. If properly written, this draft should also be dependent on P802.3cu. Recommend using Mr. Laws list of 24 June that has this project as Amendment 12.

Write a descrioption of this amendment.

Response Status W

ACCEPT IN PRINCIPLE.

Add amd 4 to 10

Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7, 158

4to10

C/ FM SC FM P10 L49 # 109 C/ FM SC FM P10 L51 Wienckowski. Natalie General Motors Anslow, Pete Self Comment Type E Comment Status D 4to10 Comment Type ER Comment Status D 4to10 Missing description of this ammendment. The amendment summary is not populated SuggestedRemedy SuggestedRemedy Change: IEEE Std 802.3xx[™]-20xx Add appropriate summary text This amendment includes [complete] Proposed Response Response Status W To: IEEE Std 802.3cp[™]-20xx PROPOSED ACCEPT IN PRINCIPLE This amendment includes includes changes to IEEE Std 802.3-2018 and adds Clause 157, Clause 158, Clause 159, and Clause 160. This ammendment adds bidirectional 10 Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7, 158 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs. Proposed Response Response Status W C/ FM SC FM P12 / 1 # 110 PROPOSED ACCEPT. Wienckowski Natalie General Motors Comment Status A Comment Type E Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7, 158 There should not be blank pages in the document. C/ FM SC FM P10 L49 # 52 SuggestedRemedy Lewis. Jon Dell EMC Delete blank page (Instruction on how to do this are in the 802.3 template on page 15 of Comment Type E Comment Status A 4to10 version 4p2 Template is still in the draft for additional ammendments. Also delete blank page 16, 20, 38, 64, and 82. Response SuggestedRemedy Response Status C ACCEPT. Update from line 49 to include prior amendments to the base standard. Response Response Status C C/ FM SC FM P13 L28 # 287 ACCEPT IN PRINCIPLE. Dawe, Piers Nvidia Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7, 158 Comment Type E Comment Status D LATE Formatting problem with the contents list for the new clauses. Missing tab in the template? C/ FM SC FM P10 / 50 # 150 SuggestedRemedy Marris, Arthur Cadence Design Systems Fix Comment Type ER Comment Status D 4to10 Proposed Response Response Status W Missing description for "IEEE Std 802.3cp™-20xx" PROPOSED ACCEPT IN PRINCIPLE. SuggestedRemedy

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

Replace "[complete]" with suitable text

PROPOSED ACCEPT IN PRINCIPLE.

SORT ORDER: Clause, Subclause, page, line

Response Status W

Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7, 158

Proposed Response

C/ FM SC FM Page 8 of 53 7/15/2020 4:10:55 PM

C/ FM SC FM P13 L49 # 92 C/ 00 SC 0 P0L0 # 164 Grow, Robert RMG Consulting Dawe. Piers Nvidia Comment Type Ε Comment Status A Comment Type Comment Status D For some reason, a 43 is added to the end of the clause title. Same thing with clause 159 Tecehnical comments and clause 160. Each ends with "-BR40+", and each has a different number tacked onto SuggestedRemedy the title. To follow SuggestedRemedy Proposed Response Response Status W If this is a FrameMaker "feature" perhaps appending spaces or something to the end of the title may help eliinate the TOC problem. It is a mystery to me though what to do if this is a PROPOSED ACCEPT IN PRINCIPLE FrameMaker problem with a title ending in "+". Place holder for LATE comments Response Response Status C ACCEPT IN PRINCIPLE. P1 / 15 C/ 00 SC 0 # 159 Maguire, Valerie The Siemon Company Fix these places Comment Type E Comment Status D C/ 00 SC P # 2 "50" and "Gb/s" should be on the same line Finisar/ /II-VI DeAndrea, John SuggestedRemedy Comment Type E Comment Status A Insert non-breaking space between "50" and "Gb/s" in the title of the amendment Table 159-4 The Table shows a value of -20 dBm for 25GBASE-BR10 and -26 dBm for Proposed Response Response Status W 25GBASE-BR-10. I believe there is a typo, because the PMD has (4) types, -BR10, -BR20, -BR40, and -BR40+ PROPOSED ACCEPT. SuggestedRemedy C/ 00 SC 0 P**7 L9** # 230 Suggest change: add other (2) PMD types and comment for power levels GraCaSI S.A./Independent Thompson, Geoff Response Response Status C Comment Type ER Comment Status D ACCEPT IN PRINCIPLE. Pete Anslow is no longer 802.3 WG Secretary See#1 SuggestedRemedy Replace "Pete Anslow" with "Jon Lewis" C/ 00 SC 0 P0**L 0** # 165 Proposed Response Response Status W Nvidia Dawe, Piers PROPOSED ACCEPT. Comment Status D Comment Type E Editorial comments SuggestedRemedy To follow

Proposed Response

PROPOSED ACCEPT IN PRINCIPLE.

Place holder for LATE comments

Response Status W

C/ 00 SC 0 P7 L15 # 231 C/ 00 SC 0 P12 **L1** # 53 Thompson, Geoff GraCaSI S.A./Independent Lewis, Jon Dell FMC Comment Type ER Comment Status A Comment Type Comment Status A Duane Remein is no longer an editor or this project. blank page SuggestedRemedy SuggestedRemedy Remove his name or revise the text. Remove the blank page. Also page 16, 20, 38 is blank. Please remove all blank pages in the document. The latest template has instructions for removing blank pages throughout Response Response Status W the draft if necessary. ACCEPT IN PRINCIPLE Response Response Status C ACCEPT. See #14 SC 0 / 15 C/ 00 P9 # 232 See #110 Thompson, Geoff GraCaSI S.A./Independent SC 1.3 C/ 1 P18 **L1** # 16 Comment Type E Comment Status D Hajduczenia, Marek Charter The word "Ethernet" in this line is incorrect Comment Type Comment Status A ER SuggestedRemedy No normative references, no need for 1.3 See maintenance request 1350 SuggestedRemedy Proposed Response Response Status W Strike 13 PROPOSED REJECT. Response Response Status C ACCEPT. This is from the template document. C/ 00 SC 0 P10 / 49 # 158 C/ 1 SC 1.3 P18 L1 # 111 Maguire, Valerie The Siemon Company Wienckowski, Natalie General Motors Comment Status D Comment Type E 4to10 Comment Type E Comment Status D Missing the descriptive content for amendments 4 through 11 SuggestedRemedy SuggestedRemedy Replace content on lines 49 through 52 with descriptive content for amendments 4 through Delete empty section. 11 in draft 2.0 of IEEE 802.3cv (lines 49 - 54 on page 10 and lines 1 -50 on page 11) Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. See #16

Group comments #149, 107, 104, 105, 103, 108, 106, 91, 109, 52, 150, 7, 158

C/ 1 SC 1.4 P18 **L8** # 228 C/ 1 SC 1.4 P18 L13 # 18 D'Ambrosia, John Futurewei, U.S. Subsidiary of Huawei Hajduczenia, Marek Charter Comment Type TR Comment Status D Comment Type ER Comment Status A Definition of all PHYs in 1.4, indicate that each PHY includes two different specifications Units need to be separated from numeric value/ for -D and U. However, the scope of the approved PAR for 802.3cp states -SuggestedRemedy The scope of the project defines physical layer specifications and management Insert a space (non-breaking) before "km" parameters for symmetric bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s operation over single strand of single mode fiber of at least 10 km. Scrub the draft It does not appear that specifications for symmetric bidirectional links were defined, as Response Response Status C there are different specifications for upstream and downstream. ACCEPT. Therefore, this specification is not per the scope of the approved PAR. SuggestedRemedy C/ 1 SC 1.4 P18 L14 It is assumed that different specifications are necessary for upstream / downstream. Hajduczenia, Marek Charter Therefore, the scope of the PAR needs to be updated. Comment Type ER Comment Status A Proposed Response Response Status W We do not reference amendments, but baseline standard PROPOSED REJECT SuggestedRemedy 802.3cp BiDi links use different wavelengths for upstream and downstream. Change "IEEE Std 802.3cp" to "IEEE Std 802.3", all definitions in 1.4 Response As a good precedent, the PAR of 802.3av says "5.2 Scope of Proposed Standard: The Response Status C scope of this project is to amend IEEE Std 802.3 to add physical layer specifications and ACCEPT. management parameters for symmetric and/or asymmetric operation at 10 Gb/s on point-tomultipoint passive optical networks." C/ 1 SC 14 P18 L20 # 229 C/ 1 SC 1.4 L12 # 288 D'Ambrosia, John Futurewei, U.S. Subsidiary of Huawei P18 Comment Type TR Comment Status D Dawe, Piers Nvidia Distinct Identiv concerns. Each of the speeds has two PHYs that address at least 40km Comment Type T Comment Status D I ATF (BR40 and BR40+) which are noted as differing by -40+ having a larger loss budget, which "The link includes two different specifications": I know this is copied from before but it means that there are two different solutions that can address the lower loss budget. disagrees with the definition of "link" and anyway a link is a thing not a document; it does not contain specifications. SuggestedRemedy Choose 1 solution for 40km for each rate. SuggestedRemedy Change to "There are different specifications for 10GBASE-BR10-D and 10GBASE-BR10-Proposed Response Response Status W

U: a link connects one to the other."?

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Need group discussion

40 and 40+ links are different. 40+ means legacy 40km link.

PROPOSED REJECT.

C/ 1 SC 1.4 P18 L 26 # 19 Hajduczenia, Marek Charter Comment Type ER Comment Status A 40+ "10GBASE-BR40+-D" looks and reads terrible. SuggestedRemedy Change the PMD name to "10GBASE-BR50-D" or any other combination that avoids the use of + followed by - sign Scrub the draft Response Response Status C ACCEPT IN PRINCIPLE. See#187 Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217 C/ 1 SC 1.4.52a P18 / 12 # 69 Nicholl, Shawn Xilinx Comment Type ER Comment Status A Definitions contain a reference to IEEE Std 802.3cp which should be IEEE Std 802.3 once the amendment is approved. SugaestedRemedy Propose to replace "See IEEE Std 802.3cp" with "See IEEE Std 802.3" in this sub-clause and other sub-clauses found in sub-clause 1.4 Response Response Status W ACCEPT. SC 1.4.52a P18 L12 # 289 C/ 1 Dawe. Piers Nvidia Comment Status D LATE Comment Type Ε 10km SuggestedRemedy

Response Status W

10 space km Several places

PROPOSED ACCEPT.

Proposed Response

Cl 1 SC 1.4.52d P18 L24 # 239

Dawe, Piers Nvidia

Comment Type E Comment Status D LATE with a larger loss budget: larger than what?

SuggestedRemedy with a larger loss budget than 10GBASE-BR40.

Proposed Response Response Status W

Need group decision

PROPOSED ACCEPT IN PRINCIPLE

 CI 1
 SC 1.4.52d
 P18
 L 24
 # 219

 Law, David
 Hewlett Packard Enterprise

 Comment Type
 TR
 Comment Status D
 40+

Please do not use '+' as part of the PHY name, due to its position it is resulting in the string '+-' in PHY names.

SuggestedRemedy

Please clarify the difference between the 40 and 40+ PHYs and based on the difference choose an additional letter to add after the '40' separated with a dash. This would be of the format 10GBASE-BR40-X, with a 10GBASE-BR40-X-D and 10GBASE-BR40-X-U where 'X' is the chosen letter.

Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.

See #19

Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217

C/ 1 SC 1.4.52d P18 L25 # 70 C/ 1 SC 1.4.128d P19 **L** 5 # 234 Nicholl, Shawn Xilinx Thompson, Geoff GraCaSI S.A./Independent Comment Type TR Comment Status A Comment Type Comment Status D Concerns about readability of "+-" in 10GBASE-BR40+-D and 10GBASE-B40+-U PMD I believe that introducing a new symbol other than dash (and dash has been bad enough) will be problematical over the long haul in the popular press editorial sense. SuggestedRemedy SuggestedRemedy Propose to replace "10GBASE-BR40+" with something else. Perhaps "10GBASE-BR40X", Change from "50GBASE-BR40+" to "50GBASE-BR40plus" here and throughout the draft. where X is a letter A-Z (perhaps "L" for "Legacy" or "Long"). Perhaps "10GBASE-BR40-X". Proposed Response Response Status W where X is a number (i.e. in the format of 400GBASE-LR4-6 found in P802.3cu). PROPOSED ACCEPT IN PRINCIPLE. Response Response Status W ACCEPT IN PRINCIPLE. Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217 See #19 See#187 Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217 C/ 30 SC 30.5.1.1.2 P21 L16 # 151 Marris. Arthur Cadence Design Systems # 233 C/ 1 SC 1.4.91d P18 L23 Comment Type Comment Status D Е Thompson, Geoff GraCaSI S.A./Independent Missing line feed Comment Type E Comment Status D 40+ SuggestedRemedy I believe that introducing a new symbol other than dash (and dash has been bad enough) will be problematical over the long haul in the popular press editorial sense. Change "...10GBASE-BR10-D" to "... 10GBASE-BR10-D" SuggestedRemedy Proposed Response Response Status W Change from "25GBASE-BR40+" to "25GBASE-BR40plus" here and throughout the draft. PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. C/ 30 SC 30.5.1.1.2 P21 L16 # 20 Hajduczenia, Marek Charter Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217 See #19 Comment Type Е Comment Status A Seems like "..." should be in a separate line above? C/ 1 SC 1.4.128 P18 L45 # 93 SuggestedRemedy **RMG** Consulting Grow, Robert Fix the location of "..." Comment Type Ε Comment Status A Response Response Status C Insert point is wrong. ACCEPT. SuggestedRemedy

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

The insert should be after 1.4.128aac which was inserted by IEEE Std 802.3ca-20xx.

Inserts are then numbered 1.4.128aad through 1.4.128aag.

Response Status C

Response

ACCEPT IN PRINCIPLE.

Use the numbers provided by Jon Lewis

C/ **30** SC **30.5.1.1.2** Page 13 of 53 7/15/2020 4:10:55 PM

C/ 30 SC 30.5.1.1.2 P22 *L*1 # 166 CI 45 SC 45.2.1 P23 **L8** # 112 Dudek, Mike Marvell Wienckowski, Natalie **General Motors** Comment Type Т Comment Status D Comment Type Comment Status D All the other -D Phys are OLT Incorrect editor instructions. Cb and cd didn't make any changes that impact the changed rows in cp. SuggestedRemedy SuggestedRemedy Change ONU to OLT Make editor instruction: Change Table 45-3 as shown (unchanged rows not shown): Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT PROPOSED ACCEPT. C/ 30 P22 L14 # 21 SC 30.5.1.1.2 C/ 45 SC 45.2.1 P23 **L8** # 152 Charter Hajduczenia, Marek Cadence Design Systems Marris, Arthur Comment Type E Comment Status A Comment Type Ε Comment Status D What is IEEE Std 802.3xx? SuggestedRemedy SuggestedRemedy Fix line spacing in 30.5.1.1.2 Delete 802.3xx or correct it to the right amendment Response Response Status C Proposed Response Response Status W ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. SC 45.2.1 C/ 45 P23 L8 # 40 Delete "(as modified by ... 802.3xx)" Zimmerman, George ADI, Cisco, CommScope, Marvell, SenTekSe C/ 45 SC 45.2.1 P23 L15 # 113 Comment Status A Comment Type E Editing instruction lists modifying amendments to Table 45-3, and includes "802.3xx" which Wienckowski. Natalie **General Motors** does not exist. Additionally, omits at least 802.3cq-2019 and 802.3ch-2020, which Comment Status D Comment Type E modified this table. Since most amendments modify this table, the 'modified by' list is missing rows above and below changed rows to show there are rows above and below that generally left out. aren't changed. SuggestedRemedy SuggestedRemedy Delete "(as modified by ... 802.3xx)" from editing instruction Add row above and below the contented rows. "straddle" each row then add an "..." - See Response Response Status C 45.2.1 in the 802.3 FM template for example. ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT.

CI 45 SC 45.2.1.6 P24 L12 # 115 CI 45 SC 45.2.1.7.1 P25 L20 # 240 Wienckowski. Natalie General Motors Dawe. Piers Nvidia Comment Type E Comment Status D Comment Type E Comment Status D LATE missing rows above and below changed rows to show there are rows above and below that This very long table can be laid out better aren't changed. SuggestedRemedy SuggestedRemedy Make the left column wider, at least wide enough to fit the contents, as done for Table 45-Add row above and below the contented rows. "straddle" each row then add an "..." - See 12. The right column could be narrower. 45.2.1 in the 802.3 FM template for example. Also Table 45-10. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT PROPOSED ACCEPT. P25 L7 CI 45 SC 45.2.1.7 # 41 C/ 45 SC 45.2.1.7.1 P25 L20 Zimmerman, George ADI, Cisco, CommScope, Marvell, SenTekSe Anslow, Pete Self Comment Type E Comment Status A Comment Type E Comment Status A Tables 45-9 and 45-10 are commonly modified, modifying amendments are generally left Table 45-9 and Table 45-10 do not include "and" in any of the existing rows (although Table out. However, if they are to be included, at least 802.3cg and 802.3ch which modified these 45-12 does). tables should be included SuggestedRemedy SuggestedRemedy Delete all instances of "and" from Table 45-9 and Table 45-10 Delete "(as modified by ...)" from editing instructions for Tables 45-9 and 45-10 Response Response Status C Response Response Status C ACCEPT. ACCEPT. CI 45 SC 45.2.1.16 P24 L4 # 153 CI 45 SC 45.2.1.7 P25 # 42 L18 Marris. Arthur Cadence Design Systems Zimmerman, George ADI, Cisco, CommScope, Marvell, SenTekSe Comment Type Comment Status D Ε Comment Type E Comment Status A I thought 802.3ct was amending 802.3cp 130.6.8. 71.6.10. 113.4.2.2. and 137.8.9 should be marked as external references in Table SuggestedRemedy 45-9. Similarly for 130.6.9, 71.6.11, 89.5.9, and 137.8.10 in Table 45-10, and 130.6.5, 71.6.6. 113.4.2.3. and 137.8.10 in Table 45-12 Delete reference to 802.3ct and review the changes indicated in the bit description in Table 45-7. Deleting both 11xxxxx and 1111001 does not seem right. SuggestedRemedy Proposed Response Response Status W Change references not in the draft to externals PROPOSED ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT. Need to check this out

CI 45 SC 45.2.1.27a P28 L33 # 167 Dudek, Mike Marvell Comment Type Т Comment Status D All the other bits are RO this one is blank. SuggestedRemedy Make it RO Proposed Response Response Status W PROPOSED ACCEPT L25 # 168 Cl 45 SC 45.2.1.27a.4 P29 Dudek, Mike Marvell Comment Type TR Comment Status D 25GBASE-BR20-U should not be described in a section titles 25GBASE-BR40-D and it needs its own bit SuggestedRemedy Make this paragraph a different section with its own bit and title and renumber the rest of the sub-clauses. Proposed Response Response Status W PROPOSED ACCEPT. Make "25GBASE-BR20-U ability (1.34.11)" a subsection # 22 CI 45 SC 45.2.1.27b P31 L7 Haiduczenia. Marek Charter Comment Type TR Comment Status A Title savs "25G" and all entries show "50GBASE

SuggestedRemedy

Fix the table title to say "50G PMA/PMD"

Response Response Status C

ACCEPT IN PRINCIPLE.

Use suggested remedy to fix Table 45-31b title. Also fix Table 45-31a title as "10G and 25G..."

Table 45-31a, line 1.34.6. missing RO

CI 56 SC 56.1 P33 L5 # 116 Wienckowski. Natalie General Motors Comment Type E Comment Status D The editorial instruction includes (as changed by P802.3ca) which is not the correct way to write this. SuggestedRemedy Change: (as changed by P802.3ca) To: (as modified by IEEE Std 802.3ca-2020) Proposed Response Response Status W PROPOSED ACCEPT. P33 L 5 CI 56 SC 56.1 # 154 Marris, Arthur Cadence Design Systems Comment Type Ε Comment Status D Change P802.3ca to IEEE Std 802.3ca-2020 SuggestedRemedy Change P802.3ca to IEEE Std 802.3ca-2020 Proposed Response Response Status W PROPOSED ACCEPT. C/ 56 SC 56.1 P33 L14 # 117 Wienckowski. Natalie **General Motors** Comment Type E Comment Status D This should show the changes made by ca.

SuggestedRemedy

Change: and Figure 56–5 for EPoC topologies To: Figure 56–5 for EPoC topologies, and Figure 56–5a for Nx25G-EPON topologies.

Proposed Response Status W

PROPOSED ACCEPT.

CI 56 SC 56.1 P33 **L38** # 241 CI 56 SC 56.1.1.1 P34 L18 # 43 Dawe, Piers Nvidia Zimmerman, George ADI, Cisco, CommScope, Marvell, SenTekSe LATE Comment Type Т Comment Status D Comment Type E Comment Status A Wrong PCS; wrong font. As the lower sublayers are rate-specific too, I don't know that we 66.1 and 66.2 (line 20) should be external cross references need to give that detail in the figure. SuggestedRemedy SuggestedRemedy Change references not in the draft to externals Either change to 10GBASE-R PCS 25GBASE-R PCS 50GBASE-R PCS, in the usual font, Response Response Status C and make the stacks of boxes wider, or change to PCS PCS PCS, in the usual font. ACCEPT Also Fig 157-1. Cl 56 SC 56.1.1.1 P34 L21 Proposed Response Response Status W Dawe. Piers Nvidia PROPOSED REJECT. Comment Type Ε Comment Status D LATE In 802.3-2018 Fig. 56-1, there are blocks such as "Cu PCS", "100BASE-X PCS", and Too much "support" "1000BASE-X PCS". Those fonts are smaller than the usual. SuggestedRemedy CI 56 SC 56.1.1 P34 / 1 # 23 Change Hajduczenia, Marek Charter sublayers are used to support a bit rate Comment Type E Comment Status A sublayers are used for a bit rate What does text in {} mean? four times SuggestedRemedy Proposed Response Response Status W Use known designation for text and editorial instructions PROPOSED REJECT. Response Response Status C This type of wording is used throughout 56.1.1 to describe all EFM P2P links. In order to ACCEPT IN PRINCIPLE make 56.1.1.1 and 56.1.1.2 the same style, suggest to change "sublayers are used to support a bit rate" to "sublayers support a bit rate" (5 places) Delete "{from IEEE Std 802.3-2018}." Cl 56 SC 56.1.1.1 P34 1 24 # 243 CI 56 SC 56.1.1.1 P34 L18 # 24 Dawe. Piers Nvidia Hajduczenia, Marek Charter Comment Type E Comment Status D I ATF Comment Type ER Comment Status A Should mention the FEC sublayers too where they are required for all variants. External references (not live) are to be marked in Forest Green - "as defined in >>66.1<<" SuggestedRemedy SuggestedRemedy 25GBASE-R PCS, RS-FEC, and PMA sublayers Multiple locations in the draft - please scrub accordingly. 50GBASE-R PCS, RS-FEC, and PMA sublayers Response Response Status C Proposed Response Response Status W ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE Line 18 "66.1". line 20 "66.2" 25GBASE-R PCS, FEC, and PMA sublayers 50GBASE-R PCS, FEC, and PMA sublayers

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/ 56 SC 56.1.1.1 Page 17 of 53 7/15/2020 4:10:55 PM

CI 56 SC 56.1.2.1 P34 **L40** # 61 CI 56 SC 56.1.3 P35 **L9** # 26 Kramer, Glen Broadcom Hajduczenia, Marek Charter Comment Type Ε Comment Status A Comment Type E Comment Status A None of the lists added in 56.1.3 need to be lettered, we do not reference them. Subclause number repeated twice SuggestedRemedy SuggestedRemedy delete an extra "56.1.2.1" Convert lettered lists into bulleted ones Other locations include page / line: 39/31, Response Response Status C Response Response Status C ACCEPT. ACCEPT. Cl 56 SC 56.1.2.1 P34 L40 # 25 C/ 56 SC 56.1.3 P37 # 246 Hajduczenia, Marek Charter Dawe, Piers Nvidia Comment Type E Comment Status A LATE Comment Type T Comment Status D Seems like subclause number is doubled? RS-FEC is missing. Maybe EEE is missing. SuggestedRemedy SuggestedRemedy remove one instance of 56.1.2.1 OAM Response Response Status C FFF ACCEPT. 100BASE-LX10 PMD 10GBASE-R PCS C/ 56 SC 56.1.2.2 P34 L44 # 118 25GBASE-R RS-FEC 108 Wienckowski. Natalie General Motors 10GBASE-R PMA Comment Status D 10GBASE-BRx PMD Comment Type E 25GBASE-R PCS ca was approved in 2020 10GBASE-R RS-FEC 108 SuggestedRemedy 25GBASE-R PMA 25GBASE-BRx PMD Change: 802.3ca-YYYY 50GBASE-R PCS To 802.3ca-2020 50GBASE-R RS-FEC 134 Also P36L1 50GBASE-R PMA ... Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. EEE and RS-FEC are mentioned in Tables 158-1, 159-1, 160-1. Align Table 56-2 to the

three tables.

CI 56 SC 56.1.3 P37 L # 245 C/ 56 SC 56.1.3 P37 L21 # 203 Dawe. Piers Nvidia Law. David Hewlett Packard Enterprise Comment Type Ε Comment Status D LATE Comment Type Comment Status D Order: should go down the layers. Compare Table 44-1, Table 105-2, Table 131-3 and The title for Clause 49 is 'Physical Coding Sublayer (PCS) for 64B/66B, type 10GBASE-R' several others therefore the text in the Clause 49 heading in Table 56-2 should read '10GBASE-R PCS'. This matches the existing Clause 66 column wich is labelled '1000BASE-X PCS, PMA' SuggestedRemedy even though the PCS is used to from the 1000BASE-LX10 and 1000BASE-BX10 PHYs. A 10GBASE-R PCS similar changed needs to be made to the Clause 107 and 133 column headings. 10GBASE-R PMA SuggestedRemedy 10GBASF-BRx PMD 25GBASE-R PCS Change '10GBASE-BRx PCS to read '10GBASE-R PCS' for the Clause 49 column 25GBASE-R PMA heading, '25GBASE-BRx PCS' to read '25GBASE-R PCS' for the Clause 107 heading, and 25GBASE-BRx PMD '50GBASE-BRx PCS' to read '50GBASE-R PCS' for the Clause 133 heading. 50GBASE-R PCS Proposed Response Response Status W 50GBASE-R PMA PROPOSED ACCEPT. 50GBASE-BRx PMD Proposed Response Response Status W Group #244, 203, 204 PROPOSED ACCEPT IN PRINCIPLE. # 204 CI 56 SC 56.1.3 P37 L21 CI 56 SC 56.1.3 P37 L18 # 244 Law. David Hewlett Packard Enterprise Dawe, Piers Nvidia Comment Type Comment Status D Comment Type E Comment Status D LATE The title for Clause 51 is 'Physical Medium Attachment (PMA) sublayer, type Serial' therefore the text in the Clause 51 heading in Table 56-2 should read '10GBASE-R PMA'. Sublayer names This matches the existing Clause 66 column wich is labelled '1000BASE-X PCS. PMA' SuggestedRemedy even though the PCS is used to from the 1000BASE-LX10 and 1000BASE-BX10 PHYs. A similar changed needs to be made to the Clause 109 and 153 column headings. 10GBASE-BRx PMA to 10GBASE-R PMA SuggestedRemedy 10GBASE-BRx PCS to 10GBASE-R PCS Change '10GBASE-BRx PMA' to read '10GBASE-R PMA' for the Clause 51 column 25GBASE-BRx PMA to 25GBASE-R PMA heading, '25GBASE-BRx PMA' to read '25GBASE-R PMA' for the Clause 109 heading, and 25GBASE-BRx PCS to 25GBASE-R PCS ' 50GBASE-BRx PMA' to read '50GBASE-R PMA' for the Clause 133 heading. 50GBASE-BRx PMA to 50GBASE-R PMA 50GBASE-BRx PCS to 50GBASE-R PCS Proposed Response Response Status W Proposed Response PROPOSED ACCEPT. Response Status W PROPOSED ACCEPT. Group #244, 203, 204 Group #244, 203, 204

CI 56 SC 56.1.4 P37 **L50** # 27 C/ 157 SC P39 **L1** # 4 Baggett, Tim Hajduczenia, Marek Charter Microchip Comment Type E Comment Status A Comment Type Ε Comment Status A 56.1.4 is empty The term BiDi is used extensively throughout the document, but it there isn't a clear definition, nor is it found anywhere else in the existing standard. SuggestedRemedy SuggestedRemedy Remove it please Consider if BiDi definition should be added to clause 1.4 Response Response Status C Response Response Status C ACCEPT. ACCEPT IN PRINCIPLE. Р SC 78.1.4 CI 78 # 247 See#144 Dawe, Piers Nvidia C/ 157 SC 157 P38 / 1 # 28 Comment Type T Comment Status D LATE Need to modify the EEE clause Charter Hajduczenia, Marek Comment Type E Comment Status A SuggestedRemedy Title missing "and' when listing speeds Modify Table 78-1 to show which PHYs may optionally support EEE. For each, footnote b applies: The deep sleep mode of EEE is not supported for this PHY. SuggestedRemedy Proposed Response Response Status W Change to "Introduction to 10 Gbps, 25 Gbps, and 50 Gbps BiDi PHYs" PROPOSED ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT IN PRINCIPLE Modify Table 78-1 to show 25GBASE-BRx and 50GBASE-BRx BiDi PHYs may optionally support EEE. Footnode b applies to the aformentioned PHYs. Change to "Introduction to 10 Gb/s, 25 Gb/s, and 50 Gb/s BiDi PHYs" SC 108 C/ 108 # 248 C/ 157 SC 157 P39 L1 Dawe, Piers Nvidia Anslow, Pete Self Comment Type T Comment Status D LATE Comment Type E Comment Status A Clause 108, Reed-Solomon Forward Error Correction (RS-FEC) sublayer for 25GBASE-R 802.3 uses Gb/s rather than Gbps. See: PHYs. will need some modifications for its new use as a 10G FEC. http://www.ieee802.org/3/WG tools/editorial/requirements/words.html#bps SuggestedRemedy which states: "only Mb/s and Gb/s should be used" SuggestedRemedy Proposed Response Response Status W Change the title of Clause 157 to "Introduction to 10 Gb/s, 25 Gb/s, 50 Gb/s BiDi PHYs" PROPOSED ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT IN PRINCIPLE. In Cl. 108, add a new paragrph to the end of 108.1.1 "This RS-FEC sublayer also applies to 10GBASE-BR20 and 10GBASE-BR40+ PHYs, specified in Clause 158. When applying it to See Comment #28 10GBASE-BR20 and 10GBASE-BR40+ PHYs. "25GBASE-R" and "25.78125 GBd" in this

clause should be replaced by "10GBASE-BR20 or 10GBASE-BR40+" and "10.3125 GBd",

respectively."

C/ 157	SC 157	P39	L1	# 249		C/ 157 SC 157.1.1	P 39	<i>L</i> 11	# 250	
Dawe, Pie	ers	Nvidia			-	Dawe, Piers	Nvidia			
Comment 802.3	Type E doesn't use Gbps	Comment Status D			LATE	Comment Type E Net-work	Comment Status D		LATE	
Suggested Chang	dRemedy ge to Gb/s (3 time	es)				SuggestedRemedy Network				
•	Response POSED ACCEPT.	Response Status W				Proposed Response PROPOSED ACCEPT	Response Status W T.			
C/ 157	SC 157.1.1	P38	L11	# 29		C/ 157 SC 157.1.1	P39	L11	# 196	
Hajduczei	nia, Marek	Charter				Law, David Hewlett Packard Enterprise				
Comment Extra	Type ER "-" in Net-work	Comment Status A				Comment Type E Net-work' should	Comment Status D read ' Network'.			
	•	re multiple instances where l	ikely import from	n Word resulted in		SuggestedRemedy See comment. Proposed Response	Response Status W			
Response ACCE		Response Status C				PROPOSED ACCEPT	'			
C/ 157	SC 157.1.1	P39	L 10	# 144		C/ 157 SC 157.1.1	P39	L11	# 71	
Lusted, K	ent	Intel Corpora	tion	7		Nicholl, Shawn	Xilinx			
Comment Type TR Comment Status A the term "BiDi" is used repeatedly throughout the document as an abbreviation for Bidirectional. However, it is not defined as an abbreviation in the base standard.						Comment Type ER Comment Status A Typo "Net-work"				
					SuggestedRemedy					
Suggested	dRemedy					Replace "Net-work" w	ith "Network"			
Add "BiDi" as an abbreviation for "Bidirectional" in Clause 1.5					Response	Response Status W				
Response		Response Status W				ACCEPT.				

ACCEPT.

C/ 157 SC 157.1.1 P39 L23 # 197 C/ 157 SC 157.1.2 P39 L26 # 223 Law, David Hewlett Packard Enterprise Trowbridge, Steve Nokia Comment Type Comment Status D Comment Type E Comment Status D The PMA sublayer is listed twice, yet the PMD sublayer is missing. In addition the list ends Reference to Table 157-1 should be reference to Figure 157-1. with '... Coding Sublayer (PCS) sublayers and ...'. SuggestedRemedy SuggestedRemedy See comment Suggest the text '... Physical Medium Attachment (PMA), Physical Medium Attachment Proposed Response Response Status W (PMA), forward error correction (FEC), and Physical Coding Sublayer (PCS) sublayers ...' be changed to read '... Physical Coding Sublaver (PCS), forward error correction (FEC). PROPOSED ACCEPT physical medium attachment (PMA), physical medium dependent (PMD) sublayers ...'. C/ 157 SC 157.1.2 P39 L27 Proposed Response Response Status W Dawe, Piers Nvidia PROPOSED ACCEPT. Comment Type Ε Comment Status D LATE C/ 157 SC 157.1.1 P39 L26 # 198 are specified in 44.1.3 (for 10 Gb/s), 105.1.2 (for 25 Gb/s), and 131.1.2 (for 50 Gb/s) Hewlett Packard Enterprise apply - not grammatical. Law. David Comment Type E Comment Status D SuggestedRemedy ... model are shown in Table 157-1.' should read '... model are shown in Figure 157-1.'. Delete "are" or "apply"? SuggestedRemedy Proposed Response Response Status W See comment. PROPOSED ACCEPT. Proposed Response Response Status W Delete "apply" PROPOSED ACCEPT C/ 157 SC 157.1.2 P39 L28 # 169 C/ 157 SC 157.1.2 P38 L31 # 30 Dudek. Mike Marvell Hajduczenia, Marek Charter Comment Status D Comment Type Ε Comment Type E Comment Status A Sentence isn't correct (has two verbs) Seems like "see Clause XXX" should be in (), or at least preceded with a comma SuggestedRemedy SuggestedRemedy Delete "apply" on the end of the sentence. Add comma before "see" in lines 31, 33, and 35 Proposed Response Response Status W Response Response Status C PROPOSED ACCEPT. ACCEPT.

Page number is 39

C/ 157 SC 157.1.2 P41 L34 # 222 C/ 157 SC 157.1.3 P39 L39 # 253 Trowbridge, Steve Nokia Dawe. Piers Nvidia LATE Comment Type E Comment Status D Comment Type Ε Comment Status D The wide rectangle at the top of the XGMII should be against the line for the bottom of the Within this clause the Multi-Gigabit Ethernet Bidi PHY device use the following rectangle for the Reconciliation Sublayer, as are those for the other two rates. nomenclature. SuggestedRemedy SuggestedRemedy See comment For Multi-Gigabit Ethernet Bidi PHYs, the following nomenclature is used. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 157 SC 157.1.3 P38 L40 # 31 C/ 157 SC 157.1.3 P39 L39 Hajduczenia, Marek Baggett, Tim Charter Microchip Comment Type ER Comment Status A 40+ Comment Type Ε Comment Status A use the formatting for naming nomenclature defined in 802.3ca - it is way more readable There are six occurances of "Bidi" when I suspect the intention is "BiDi". P39 I 39 that way P44 L11 SuggestedRemedy P44 L17 See 141.2.6 PMD naming for reference P44 L27 P44 L38 Response Status C Response P44 L45 ACCEPT IN PRINCIPLE. SuggestedRemedy Follow style in Table 141-6 Search for "Bidi" and replace with "BiDi" Response Response Status C See#19 Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217 ACCEPT C/ 157 SC 157.1.3 P39 L37 # 252 C/ 157 SC 157.1.3 P39 L41 # 155 Nvidia Dawe. Piers Marris, Arthur Cadence Design Systems Comment Type E Comment Status D LATE Comment Type Comment Status D Ε 40+ Space before "Nomenclature" "rr" is hard to decipher in the nomenclature SuggestedRemedy SuggestedRemedy Remove Consider changing "rr" to "r" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217 See#19

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/ **157** SC **157.1.3** Page 23 of 53 7/15/2020 4:10:56 PM

C/ 157 SC 157.1.3 P39 L47 # 221 C/ 157 SC 157.1.3 P39 L47 # 63 Trowbridge, Steve Nokia Kramer, Glen Broadcom Comment Type E Comment Status D Comment Type Т Comment Status A The "x" should go as the next element of the list other than BR. The text describing x In Sentence "Bidirectional 64B/66B encoding.x refers to the PHY reach: 10 (10 km), 20 (20 should retain the hanging indent instead of wrapping back to the next line. km), 40 (40 km), or 40+ (legacy 40 km)" it is not clear what "legacy 40 km" means. Is legacy 40 km different than a "new 40 km"? SuggestedRemedy SuggestedRemedy See comment Either strike the "(legacy 40 km)" or add an explanation of what that means. Proposed Response Response Status W Response Response Status C PROPOSED ACCEPT. ACCEPT IN PRINCIPLE. C/ 157 SC 157.1.3 P39 L47 # 254 See#187 Nvidia Dawe, Piers Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217 LATE Comment Type E Comment Status D C/ 157 SC 157.1.3 P39 L47 # 75 encoding.x refers Self Laubach, Mark SuggestedRemedy Comment Type Ε Comment Status A encoding. For readability, suggest a tab x refers Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. add tabs to align "(40 km)..." under "Bidirectional" Response Response Status C C/ 157 SC 157.1.3 P39 L47 # 143 ACCEPT IN PRINCIPLE. Lusted. Kent Intel Corporation See #31 Comment Type E Comment Status D C/ 157 SC 157.1.3 P39 L48 # 215 the variable "x" and its associated text is on the same line as the variable "BR" Law, David Hewlett Packard Enterprise SuggestedRemedy Comment Status D Comment Type TR Make the variable "x" and its associated text a separate line It is not clear what is mean by '40+ (legacy 40 km)', perhaps it is in reference to the optical Proposed Response Response Status W budget. PROPOSED ACCEPT SugaestedRemedy Please provide a description of the technical difference is between '40' and '40+'. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217 See #19

C/ 157 SC 157.1.3 P39 L53 # 255 Dawe, Piers Nvidia Comment Type Ε Comment Status D LATE GMII SuggestedRemedy XGMII Proposed Response Response Status W PROPOSED ACCEPT SC 157.1.3 L53 C/ 157 P39 # 170 Dudek, Mike Marvell Comment Type T Comment Status D GMII is for 1G which isn't part of this project. SuggestedRemedy Change GMII to XGMII Proposed Response Response Status W PROPOSED ACCEPT. C/ 157 SC 157.1.3 P40 L5 Zimmerman, George ADI, Cisco, CommScope, Marvell, SenTekSe Comment Type E Comment Status A All phy names in Tables 157-1, 157-2, 157-3, and 157-4 have an extra hyphen (e.g., 10G-BASE-BR10-D should be 10GBASE-BR10-D as it is elsewhere). SuggestedRemedy Change names in Table 157-1 to remove hyphen after speed Response Response Status C ACCEPT

C/ 157 SC 157.1.3 P40 L5 # 10 Anslow, Pete Self Comment Type Ε Comment Status A The draft contains 52 instances of "xxG-BASE", which should all be "xxGBASE" The first example is in Table 157-1 where "10G-BASE-BR10-D" should be "10GBASE-BR10-D" SuggestedRemedy Change all 52 instances of "xxG-BASE" to "xxGBASE" Response Response Status C ACCEPT. P40 C/ 157 SC 157.1.3 L5 # 119 Wienckowski, Natalie General Motors Comment Type E Comment Status D There are "-" in the names after 10G/25G/50G here that aren't in the rest of the document. SuggestedRemedy Remove the "-" after the "G" in each of the names. Proposed Response Response Status W PROPOSED ACCEPT. C/ 157 P40 SC 157.1.3 L5 # 257 Dawe. Piers Nvidia Comment Status D LATE Comment Type Ε This table is too long (spills over onto the next page) and too repetitive. SuggestedRemedy Add a sentence of introduction including the common information (over one single-mode fiber), and instead of one Description column with a sentence in each cell, use columns for

rate, position (OLT or ONU), coding, reach, and clause reference.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Update Table 157-1 as suggested, also include the group decision on PHY nomenclature.

C/ 157 SC 157.1.3 P40 **L** 5 # 256 C/ 157 SC 157.1.3 P41 L 22 # 200 Dawe. Piers Nvidia Law. David Hewlett Packard Enterprise Comment Type Ε Comment Status D LATE Comment Type Ε Comment Status D fi-Move the four vertical dots on the right hand side of the layer diagram so that the lowest aligns with the top of the LLC as they do on the left had side. ber SuggestedRemedy SuggestedRemedy Make the right hand column wider, set the hyphenation fragment length to at least 3. See comment. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 157 SC 157.1.3 P40 L12 # 199 C/ 157 SC 157.1.3 P41 L37 # 145 Lusted, Kent Intel Corporation Law. David Hewlett Packard Enterprise Comment Type TR Comment Status D Comment Type TR Comment Status D The description of the 10G-BASE-BR40-D and 10G-BASE-BR40+-D both read '10 Gb/s Figure 157-1 uses "10GBASE-X PCS", "25GBASE-X PCS", and "50GBASE-X PCS" in the OLT PHY using 10GBASE-R encoding over one single-mode fiber, with reach up to at least architectural diagrams, which are not the correct names for these PCS layers. However, 40 km (see Clause 158). This is also the case for the other five BR40 and BR40+ PHYs. the PCS sections referenced in Table 157-2, 157-3, and 157-4 have them correct. As their descriptions are identical it makes it very difficult for a user to decide which of SugaestedRemedy these two PHYs to select. Change "10GBASE-X PCS" to "10GBASE-R PCS", "25GBASE-X PCS" to "25GBASE-R SuggestedRemedy PCS", and "50GBASE-X PCS" to "50GBASE-R PCS" Provide a distinct description for BR40 and BR40+ PHYs. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. C/ 157 SC 157.1.3 P41 L37 # 156 Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217 Marris. Arthur Cadence Design Systems See #19 Comment Type TR Comment Status D C/ 157 SC 157.1.3 P41 L1 # 258 These are BASE-R PCSes Dawe, Piers Nvidia SuggestedRemedy Comment Type Е Comment Status D Change BASE-X to BASE-R in Figure 157-1 If the table spills over onto a second page, the continuation header should say (continued) Proposed Response Response Status W in italics. PROPOSED ACCEPT. SuggestedRemedy

There's a correct way to do this.

PROPOSED ACCEPT IN PRINCIPLE.

See #257, try to use one page for this table

Response Status W

Proposed Response

C/ 157 SC 157.1.3 P41 L37 # 202 C/ 157 SC 157.1.4 P42 L5 # 33 Law, David Hewlett Packard Enterprise Hajduczenia, Marek Charter Comment Type Т Comment Status D Comment Type ER Comment Status A The PCS used for all three PHY speeds in a 'BASE-R PCS', not a 'BASE-X PCS'. In IEEE 802.3 standard, we do not use "must" except for specific cases outlined in Style Manual SuggestedRemedy SuggestedRemedy Suggest that the text '10GBASE-X PCS' be changed to read '10GBASE-R PCS', "PHY types must meet the requirements" - change to "shall"? '25GBASE-X PCS' be changed to read '25GBASE-R PCS' and '50GBASE-X PCS' be changed to read '50GBASE-R PCS'. Response Status C Response Proposed Response Response Status W ACCEPT. PROPOSED ACCEPT. C/ 157 SC 157.1.4 P42 L9 # 206 C/ 157 SC 157.1.3 P41 / 40 # 211 Law. David Hewlett Packard Enterprise Hewlett Packard Enterprise Law, David Comment Type Ε Comment Status D Comment Type T Comment Status D 10G-BASE-BRx' should read '10GBASE-BRx'. The MDI is part of the Physical Laver of the OSI reference model, see IEEE Std 802.3-SuggestedRemedy 2018 figure 1-1. See comment. SuggestedRemedy Proposed Response Response Status W Move the dotted line from the bottom of the Physical Laver to the bottom of the PMD box to be from the bottom of the Physical Layer to the bottom of the MDI box. PROPOSED ACCEPT. Proposed Response Response Status W C/ 157 SC 157.1.4 P42 L9 # 259 PROPOSED ACCEPT. Dawe. Piers Nvidia C/ 157 SC 157.1.3 P41 L47 # 32 Comment Type Comment Status D LATE 10G-BASE Hajduczenia, Marek Charter Comment Type ER Comment Status A SuggestedRemedy GMII is defined in Figure 157-1, but not used in the figure. XGMII, 25GMII, and 50GMII are used and not defined Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT IN PRINCIPLE. Fix the xMII definition issues See #206 Response Response Status C ACCEPT IN PRINCIPLE.

In Figure 157-1, remove "GMII = GIGABIT MEDIA INDEPENDENT INTERFACE", add "XGMII = 10 GIGABIT MEDIA INDEPENDENT INTERFACE", "25GMII = 25 GIGABIT MEDIA INDEPENDENT INTERFACE", and "50GMII = 50 GIGABIT MEDIA INDEPENDENT

Apply same changes to other figures using XGMII, 25GMII, and 50GMII

INTERFACE"

C/ 157 SC 157.1.4 P42 L13 # 76 C/ 157 SC 157.1.4 P42 L19 # 260 Laubach, Mark Self Dawe. Piers Nvidia Comment Type E Comment Status A Comment Type E Comment Status D LATE "158" is indicated forest green, yet it is included in this addendum. Same respective issue As it's Fast Wake only, EEE is above PCS the PCS at least; I believe it's above the RS. on line 41 with "159". SuggestedRemedy SuggestedRemedy Move the EEE column to between "Nomenclature" and RS. change clause numbers included in this addendum tp active cross references. Proposed Response Response Status W Response Response Status C PROPOSED ACCEPT IN PRINCIPLE ACCEPT IN PRINCIPLE Table columns are in the ascending order of Clause number, see 802.3-2018 Tables 80-2, See#34 105-2, 125-2 C/ 157 SC 157.1.4 P42 / 13 # 120 C/ 157 SC 157.1.4 P42 L20 # 201 Wienckowski, Natalie General Motors Law. David Hewlett Packard Enterprise Comment Type E Comment Status D Comment Type T Comment Status D Clause 158 is in this draft. As the title for Clause 49 is 'Physical Coding Sublayer (PCS) for 64B/66B, type 10GBASE-R', and since the 'PCS' column for Table 157-3 and 157-4 are labelled '25GBASE-R PCS' SuggestedRemedy and '50GABSE-R PCS' respectively, please change the Table 157-2 'PCS' column to Make the 158 in the heading a crosslink. '10GBASE-R PCS'. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Suggest that the text '64B/66B PCS' be changed to read '10GBASE-R PCS'. Proposed Response Response Status W C/ 157 SC 157.1.4 P42 L13 # 34 PROPOSED ACCEPT. Charter Hajduczenia, Marek Comment Status A Comment Type E C/ 157 SC 157.1.4 P42 L20 # 205 Clause 158 should not be marked in gree, but linked live Law. David Hewlett Packard Enterprise SuggestedRemedy Comment Type T Comment Status D Same applies to Tables 157-3, and 157-4 for Clauses 159, and 160, respectively Clause 46 specifies the XGMII, not the GMII. Response Response Status C SuggestedRemedy ACCEPT. Change the text 'GMII' to read 'XGMII' in the right hand Clause 46 column.

Proposed Response

PROPOSED ACCEPT.

Response Status W

C/ 157 SC 157.1.4 P42 L36 # 235 C/ 157 SC 157.1.4 P43 L1 # 122 Wienckowski, Natalie Thompson, Geoff GraCaSI S.A./Independent General Motors Comment Type ER Comment Status D Comment Type E Comment Status D The way Table 157-3 is split across the page break is, at a minimum, confusing. It needs The table title needs (continued) in it. to be controlled appropriately. SuggestedRemedy SuggestedRemedy See instructions in 200.1.1.1.1 in the 802.3 FM template. Keep the table on a single page or pro-actively control the row split at a logical point with Proposed Response Response Status W new column headings on the new page. Change the title on the 2nd piece to Table 157-3 PROPOSED ACCEPT IN PRINCIPLE (continued). Proposed Response Response Status W See #235 PROPOSED ACCEPT IN PRINCIPLE. P43 / 1 C/ 157 SC 157.1.4 # 209 Try to keep table on a single page Law. David Hewlett Packard Enterprise C/ 157 # 207 SC 157.1.4 P42 L36 Comment Type Ε Comment Status D 25G-BASE-BRx' should read '25GBASE-BRx'. Law. David Hewlett Packard Enterprise Comment Type E Comment Status D SuggestedRemedy 25G-BASE-BRx' should read '25GBASE-BRx'. See comment. SuggestedRemedy Proposed Response Response Status W See comment. PROPOSED ACCEPT. Proposed Response Response Status W C/ 157 SC 157.1.4 P43 L18 # 208 PROPOSED ACCEPT. Law, David Hewlett Packard Enterprise C/ 157 SC 157.1.4 P42 L41 # 121 Comment Type E Comment Status D 50G-BASE-BRx' should read '50GBASE-BRx'. General Motors Wienckowski, Natalie Comment Type E Comment Status D SuggestedRemedy Clause 159 is in this draft. See comment. SuggestedRemedy Proposed Response Response Status W Make the 159 in the heading a crosslink. PROPOSED ACCEPT.

Proposed Response

PROPOSED ACCEPT.

Response Status W

C/ 157 SC 157.1.4 P43 L21 # 123 C/ 157 SC 157.2.2 P44 L15 # 214 Wienckowski. Natalie General Motors Law. David Hewlett Packard Enterprise Comment Type E Comment Status D Comment Type Т Comment Status D Clause 160 is in this draft. Suggest that '... the MII ...' should be changed to read '... the xMII ...' hear and on line 17. SuggestedRemedy SuggestedRemedy Make the 160 in the heading a crosslink. See comment. Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT PROPOSED ACCEPT C/ 157 SC 157.2 P44 **L1** # 236 C/ 157 SC 157.2.2 P44 L16 Thompson, Geoff GraCaSI S.A./Independent Kramer, Glen Broadcom Comment Type ER Comment Status D Comment Type Ε Comment Status A The definition of "syblayers" is unknown to me. The draft uses "sublayer" everywhere except in three places on page 44, where it uses "sub-layer" SuggestedRemedy SuggestedRemedy Change "syblayers" to "sublayers." Remove hyphens in "sub-layer" on lines 16 (two ninstances) and line Proposed Response Response Status W Response Response Status C PROPOSED ACCEPT. ACCEPT. C/ 157 SC 157.2 P44 L1 # 261 C/ 157 SC 157.2.3 P44 L10 # 263 Dawe. Piers Nvidia Dawe. Piers Nvidia LATE Comment Type Ε Comment Status D Comment Type E Comment Status D LATE syblayers specific RS and xMII specified SuggestedRemedy SuggestedRemedy sublayers particular RS and xMII specified Proposed Response Response Status W or, delete the second "specified" PROPOSED ACCEPT. Also in 157.2.2, 157.2.3, 157.2.4 and 157.2.5. Proposed Response Response Status W C/ 157 SC 157.2.1 # 45 P44 L11 PROPOSED ACCEPT. ADI, Cisco, CommScope, Marvell, SenTekSe Zimmerman, George Delete the seocnd "specified" in all places Comment Type E Comment Status A Is it BiDi or Bidi...? SuggestedRemedy

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 Bidi to BiDi on P44, Lines 11, 17, 24, 38, 45, and page 39 line 39

Response Status C

Response

ACCEPT.

C/ **157** SC **157.2.3** Page 30 of 53 7/15/2020 4:10:56 PM LATE

 CI 157
 SC 157.2.3
 P44
 L11
 # 264

 Dawe, Piers
 Nvidia

 Comment Type
 E
 Comment Status
 D
 LATE

for a given ... is given

SuggestedRemedy

Change "for a given" to "for each".

Also in 157.2.2, 157.2.3, 157.2.4 and 157.2.5.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 157 SC 157.2.3 P44 L22 # 262

Dawe, Piers Nvidia

Comment Type T Comment Status D

Now that FEC is required for some PMDs, "An FEC sublayer is available for all Multi-Gigabit BiDi PHYs" is too weak.

SuggestedRemedy

An FEC sublayer is optional for 10G-BASE-BR10 and 10G-BASE-BR40, and required for all other Multi-Gigabit BiDi PHYs.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change to "An FEC sublayer is required for all Multi-Gigabit BiDi PHYs except 10G-BASE-BR10 and 10G-BASE-BR40"

C/ 157 SC 157.2.4 P44 L35 # 237

Thompson, Geoff GraCaSI S.A./Independent

Comment Type TR Comment Status D

The statement "The PMA also may provide an observable electrical interface for the 25GAUI or 50GAUI chip-to-chip 35 (C2C) or chip-to-module (C2M)." has no meaning within the scope of the standard. Anything that is not forbidden in the standard may be provided.

SuggestedRemedy

If optional standardized test points are specified or called out then say so. If that is not the case then delete the text.

Proposed Response Status W

PROPOSED REJECT.

This follows last sentence in 105.3.4

Cl 157 SC 157.3 P45 L25 # 124

Wienckowski, Natalie General Motors

Comment Type E Comment Status D

Either PHYs should be possessive or the s should be removed.

SuggestedRemedy

Change: PHYs sublayers To: PHY's sublayers Or To: PHY sublayers Also on L27 and L29

Proposed Response Status W

PROPOSED ACCEPT.

Change it to PHY sublayers

CI 157 SC 157.4 P45 L18 # 238

Thompson, Geoff GraCaSI S.A./Independent

Comment Type TR Comment Status D

I believe that PAUSE operation is not the only reason that demands that there be an upper bound on the propagation delays through the network. I am given to understand that both maximum and minimum transit time need to be specified to support TSN.

SuggestedRemedy

Generalize the reasons for specifying delay and include specification of minimum delay as well.

Proposed Response Response Status W

PROPOSED REJECT.

Remedy is not specific enough.

Can you please provide an 802.3 reference clause for the minimum delay constrain spec?

C/ 157 SC 157.4 P45 L25 # 72

Xilinx

Nicholl, Shawn Comment Type ER Comment Status A

Currently, the sentence reads "The maximum delay ... are specified". This is improper grammar.

SuggestedRemedy

Proposed to replace "The maximum delay for" with "The maximum delay values for". Another alternative is "The maximum delay constraints for".

Response Response Status W

ACCEPT.

Replace it with "The maximum delay constraints for" in 3 places

C/ 157 SC 157.4 P45 L25 # 265

Dawe, Piers Nvidia

Comment Type T Comment Status D I ATF

44.3 will need modification to include FEC delay

SuggestedRemedy

Modify Table 44-2.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Add a new line "10GBASE-BRx RS-FEC" to Table 44-2, reuse time values in Table 105-3, line "25GBASE-R RS-FEC" for 10GBASE-BR20 and BR40+, bit time needs adjustment to 10G

C/ 157 SC 157.6 P45 L43 # 66

Kramer, Glen Broadcom

"All members of the Multi-Gigabit Ethernet BiDi PHY family are required to include PCS registers or variable equivalents that:

1) indicate the receive status of the PCS (see 49.2.14.1 and 45.2.3.15.1), and

Comment Status A

2) disable the PHYs transmitter(see 45.2.1.8)."

As described, both OLT and ONU will disable the transmitter. This is not what should

SuggestedRemedy

Comment Type

The setting to use silent mode must be pre-configured before a device is connected to a network. Using PCS registers or variables is an implementation choice irrelevant here. It is better to introduce Active/Passive Mode for all BRx PHY. If BRx is pre-configured to be in Active Mode, it does not disable the TX. In Passive Mode, the TX disabled until a valid Rx is confirmed. (see 57.2.9 for a similar issue resolved for OAM peers)

Response Response Status C

ACCEPT IN PRINCIPLE.

Add "ONU" to subclause 157.6 title.

At the end of 157.6, add a note "Note silent start does not apply to the OLT PHY types."

C/ 157 SC 157.6 P45 / 45 # 213

Law, David **Hewlett Packard Enterprise**

ER Comment Type Comment Status D

I'm not sure if it is the case that 'The access network ... by nature, are less well controlled than other telecommunications networks.', but I don't see a need to provide this text.

SugaestedRemedy

Replace the entire first paragraph of subclause 157.6 with the text 'Silent Start is provided by Multi-Gigabit Ethernet BiDi ONU PHYs to reduce the likelihood of disruption to established services if a Multi-Gigabit Ethernet BiDi ONU PHY is inadvertently attached to a Point-to-Multipoint network.'.

Proposed Response Response Status W

PROPOSED ACCEPT.

See #67

C/ 157 SC 157.6 P45 L46 # 212 C/ 157 SC 157.6 P46 L10 Law, David Hewlett Packard Enterprise Kramer, Glen Broadcom Comment Type Ε Comment Status D Comment Type Comment Status A If my comment to replace this paragrpah is not accepted, suggest that '... are, by nature, "Once transmission is enable it should not be disabled until the receive signal is lost." less well ...' should be changed to read '... are, by their nature, less well ...'. SuggestedRemedy SuggestedRemedy This sentence is not intended as an optional requirement and no corresponding PICS exists. Also, a typo in "is enable". Proposed Response Response Status W Rephrase as "Once transmission is enabled, it is not be disabled until the receive signal is PROPOSED REJECT See #213 resolution A better explanation would be this: "Once transmission is enabled, it remains enabled until the optical receive power is lost, C/ 157 SC 157.6 P45 L 52 # 35 even if the PCS detects the received signal fault." Hajduczenia, Marek Charter Response Response Status C Comment Type ER Comment Status A ACCEPT IN PRINCIPLE. A hidden "shall" in "All members of the Multi-Gigabit Ethernet BiDi PHY family are required to include PCS registers" Remove this sentence See #37 SuggestedRemedy convert this text into "shall" statement if this is intended as a requirement. Otherwise. C/ 157 SC 157.6 P46 L10 soften the language. Hajduczenia, Marek Charter Response Response Status C Comment Type ER Comment Status A ACCEPT IN PRINCIPLE. Is this intended to be an optional requirement: "Once transmission is enable it should not be disabled until the receive signal is lost." Change "are required to" to "shall". Add Clause 49 to the first sentence of 157.7 SuggestedRemedy Add to PICS if intended, or change the language to avoid "should" # 36 C/ 157 SC 157.6 P46 / 1 Response Response Status C Hajduczenia, Marek Charter ACCEPT IN PRINCIPLE. Comment Type E Comment Status A Missing space in "transmitter(see" Remove this sentence SuggestedRemedy

Add missing space

Response Status C

Response

ACCEPT.

67

37

C/ 158 SC 158 Р # 181 C/ 158 SC 158.1 P47 L7 # 186 Stassar, Peter Huawei Stassar, Peter Huawei Comment Type TR Comment Status A Comment Type ER Comment Status A Requirements for interoperability between the various PMDs are missing. See latest Despite the fact that in the past for 10G PHYs reference was made to "baseband medium" version of P802.3cu D2.2. Also for 159 and 160. in more recent optical PMDs this term has not been used, as in new clauses 159 and 160. Also no reference is made to "serial" in 159.1 and 160.1, so it shouldn't be needed in 158.1. SuggestedRemedy Thus comments also applies to 159.1 and 160.1 Add requirements for interoperability for various PMDs in 158, 159 and 160 SuggestedRemedy Response Response Status C Make wording consistent with 159.1 and 160.1 ACCEPT IN PRINCIPLE Response Response Status C Implement the suggested remedy with editorial license to follow P802.3cu D2.2 ACCEPT IN PRINCIPLE. C/ 158 SC 158 P46 12 # 163 Change first sentence in 158.1 to "This clause specifies the 10GBASE-BR10. 10GBASE-BR20, 10GBASE-BR40, and 10GBASE-BR40+ PMDs together with the single-mode fiber Nvidia Dawe, Piers medium " Comment Type ER Comment Status D 40+ SC 158.1 P47 C/ 158 **L8** # 114 10GBASE-BR40+ is a bad name and 10GBASE-BR40+-U is even worse Wienckowski. Natalie **General Motors** SuggestedRemedy Comment Type Ε Comment Status D Choose something else e.g. 10GBASE-BR40p, 10GBASE-BR50 typo Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT IN PRINCIPLE Change: 10BASE-BR10 Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217 To: 10GBASE-BR10 See#19 Proposed Response Response Status W SC 158 C/ 158 P47 / 1 # 62 PROPOSED ACCEPT. Kramer, Glen Broadcom C/ 158 SC 158.1 P47 L17 # 266 Comment Status A Comment Type Ε 40+ Dawe, Piers Nvidia PMD name 50GBASE-BR40+-D is confusing as it reads like BR40 "plus/minus" D. LATE Comment Type T Comment Status D SuggestedRemedy Not the usual wording Consider the following PMD names instead: SuggestedRemedy 50GBASE-BR41 - "BR41" PMD class slightly better than class "BR40". 50GBASE-BR40XB - "XB" for "eXtended Budget" Change "defined in 45" to "defined in Clause 45, or equivalent" Response Response Status C Proposed Response Response Status W ACCEPT IN PRINCIPLE PROPOSED ACCEPT IN PRINCIPLE. See#187 Change "defined in 45" to "defined in Clause 45" Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217

C/ 158 SC 158.1 P47 L17 C/ 158

Hewlett Packard Enterprise

L32

210

Zimmerman, George

ADI, Cisco, CommScope, Marvell, SenTekSe

Comment Type E

Comment Status A

"defined in 45" - the cross reference should read "Clause 45" (same thing in 159.1 and 160.1)

SuggestedRemedy

Change cross reference to read "Clause 45"

Response

Response Status C

ACCEPT.

C/ 158 SC 158.1 P47 L25 # 126

46

Wienckowski. Natalie

General Motors

Comment Type E Comment Status D

All the "Associated clause"s in the table are not included in the draft and should be external.

SuggestedRemedy

Change the character tag on "46" (2x), "47", "49", "51", "108" to External which will turn them green.

Proposed Response

Response Status W

PROPOSED ACCEPT.

SC 158.1

P47

Law. David Comment Type

TR

Comment Status D

According to Table 158-1. Clause 108 RS-FEC is optional for both a 10GBASE-BR10 and 10GBASE-BR40 PHY. It is not clear that a 10GBASE-BR10 PHY that implements the optional RS-FEC sublayer can interoperate with a 10GBASE-BR10 PHY that does not implement the optional RS-FEC sublayer. Since the IEEE P802.3cp nomenclature doesn't provide a way to indicate if a 10GBASE-BR10 or a 10GBASE-BR40 PHY does or does not implement optional FEC, it appears that user has no way to know if a 10GBASE-BR10 or a 10GBASE-BR40 PHY implements RS-FEC or not. This seems to mean that a user won't know if one particular 10GBASE-BR10 PHY will interoperate with another 10GBASE-BR10 PHY. similarly for any two 10GBASE-BR40 PHYs.

SuggestedRemedy

If a 10GBASE-BR10 (or 10GBASE-BR40) PHY that implements the optional RS-FEC sublaver can't interoperate with a 10GBASE-BR10 (or 10GBASE-BR40) PHY that does not implement the optional RS-FEC sublayer, add a way to indicate if the optional RS-FEC sublayer is implemented to the IEEE P802.3cp nomenclature.

Proposed Response

Response Status W

PROPOSED ACCEPT IN PRINCIPLE

BR10 and BR40 do not need RS-FEC. Suggest changing the cell in Table 158-1 from "optional" to "not required"

P47

C/ 158 SC 158.1

L32

267

Dawe. Piers

Nvidia

Comment Type Ε

Comment Status D

LATE

Order of sublayers should be top to bottom.

SugaestedRemedy

Move the row "108 RS-FEC Optional Required" to between PCS and PMA (as it is in 159 and 160).

Proposed Response

Response Status W

PROPOSED ACCEPT.

C/ 158 SC 158.1 P47 L34 # 125 C/ 158 SC 158.1 P47 L34 # 171 Wienckowski. Natalie General Motors Dudek. Mike Marvell Comment Type Comment Type E Comment Status D TR Comment Status D **FEC** Clause 108 should be marked as an external link as it isn't in this draft. The footnote says the 108 RS-FEC is described for 25Gb/s. It should not be left to the reader to work out how to apply it to 10Gb/s SuggestedRemedy SuggestedRemedy Change the character tag on "Clause 108" to External which will turn it green. Bring appropriate edits to Clause 108 into the document. E.g. The delays in ns are Proposed Response Response Status W probably wrong. The introduction would need work etc. Whether this RS FEC meets the PROPOSED ACCEPT delay constraints for 10G networks in Clause 44 should also be investigated if this has not already been done. SC 158.1 P47 L34 # 77 C/ 158 Proposed Response Response Status W Self Laubach, Mark PROPOSED ACCEPT IN PRINCIPLE Comment Type Ε Comment Status A See#248 Cross reference not colored in table footnote. Group comments #248, 157, 171, 225 SuggestedRemedy C/ 158 SC 158.1 P48 L13 # 224 Change "Clause 108" for forest green. Trowbridge, Steve Nokia Response Response Status C Comment Type E Comment Status D ACCEPT. Sloppy alignent of rectangles for XGMII, PCS, RS-FEC in Figure 158-1 C/ 158 SC 158.1 P47 L34 # 157 SugaestedRemedy Marris. Arthur Cadence Design Systems Fix it Comment Status D FEC Comment Type TR Proposed Response Response Status W Is it really adequate to just say "Clause 108 describes an FEC for 25 Gb/s PHY, but the PROPOSED ACCEPT same scheme can be applied to 10 Gb/s PHYs"? C/ 158 SC 158.1 P48 L14 # 225 SuggestedRemedy Consider opening up clause 108 to explain how it works with 10G PMDs Trowbridge. Steve Nokia Comment Type T Comment Status D **FEC** Proposed Response Response Status W I'm not aware there is an RS-FEC for 10GBASE-R PHYs PROPOSED ACCEPT IN PRINCIPLE SuggestedRemedy See#248 I suspect you may have intended Clause 74 Firewire FEC. Provide an appropriate Group comments #248, 157, 171, 225 reference to the correct FEC type and clause reference Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. It is RS-FEC in Cl. 108, see #248 Group comments #248, 157, 171, 225

C/ 158 SC 158.1.1 P47 L45 # 47 Zimmerman, George ADI, Cisco, CommScope, Marvell, SenTekSe Comment Type TR Comment Status D The BER is specified to be at the "PHY service interface" - I can't find any other reference to a "PHY service interface" in this draft. Clauses 58, 59, and 75 use the term as well, but it is undefined. Clause 113 (25GBASE-T) defines its PHY service interface as the 25GMII (see 113.1.2). However, this clause is only specifying a PMD sublayer, and references a PMD service interface elsewhere - as just a PMD, Clause 158 cannot specify a BER at the xMII. Is the PMD service interface meant? (otherwise this requirement needs to go in the PMA, and something needs to be partitioned to the PMD) SuggestedRemedy Change "PHY service interface" to "PMD service interface" Proposed Response Response Status W PROPOSED ACCEPT. C/ 158 SC 158.1.1 P48 **L1** # 268 Dawe. Piers Nvidia Comment Status D LATE Comment Type Ε Blank line SuggestedRemedy Remove Proposed Response Response Status W PROPOSED ACCEPT. C/ 158 SC 158.1.1 P48 L30 # 269 Dawe, Piers Nvidia Comment Type Ε Comment Status D I ATF Blank lines SuggestedRemedy Remove Proposed Response

Response Status W

PROPOSED ACCEPT.

C/ 158 SC 158.5.1 P49 L37 # 64 Kramer, Glen Broadcom Comment Type Ε Comment Status A Per IEE style manual, the word "will" is deprecated. SuggestedRemedy Change the sentences containing "will" to use present tense at the following locations: P49-L37 P56-L20 P56-L21 P68-L2 P86-L37 Response Response Status C ACCEPT. C/ 158 P49 SC 158.5.2 L40 # 78 Laubach, Mark Self Comment Type Т Comment Status A PMD_UNITDATA.request is neither defined or referenced in this draft. Same for PMD UNITDATA.indication on line 49. SuggestedRemedy Either provide the definitions of these functions in this draft or a cross reference to where they are defined. Response Response Status C

52.1.1.1 defines PMD UNITDATA.request, 52.1.1.2 defines PMD UNITDATA.indication. Use them as cross references in Lines 40 and 49 and use forest green color.

ACCEPT IN PRINCIPLE.

C/ 158 SC 158.5.2 P49 L44 # 79 C/ 158 SC 158.5.6 P51 L11 # 73 Laubach, Mark Self Nicholl, Shawn Xilinx Comment Type Comment Status D Comment Type ER Comment Status A and line 50. The constant "ONE" is not defined in this draft. There are only these two Small font in paragraphs in this sub-clause. It looks different than surrounding sub-clauses. occurences. SuggestedRemedy SuggestedRemedy Check the font and paragraph spacing in this sub-clause. Definitions should be fixed when implementing the proposed change for Response Response Status W PMD UNITDATA.request and PMD UNITDATA.indication. ACCEPT Proposed Response Response Status Z REJECT. Р C/ 158 SC 158.6 # 187 Stassar, Peter This comment was WITHDRAWN by the commenter. Huawei Comment Type TR Comment Status A 40+ 802.3 convention ONE is a well-known constant It is very confusing why 2 PMDs 40km and 40+km are specified to satisfy a single 40km objective, also considering that in Table 158-5 only one 40km distance is given. It is also C/ 158 # 127 SC 158.5.6 P51 L11 not clear what "+" refers to. If the 40+km spec is technically and economically feasible, **General Motors** Wienckowski. Natalie delete the 40km spec. This comment also applies to 159 and 160. Comment Type E Comment Status D SuggestedRemedy This sentence isn't clear. What's optional, the function? Th PMD? The optical transmitter? Remove one of 40km/40+km and create a single 40km specification optimized for lowest cost. This can be done via a single power budget with 2 distance options as in Clause 114 SuggestedRemedy for 25GBASE-ER. Applies to 158, 159 and 160 Change: PMDs compliant with this clause shall include the PMD global transmit disable Response Response Status C function which allows the optical transmitter to be disabled is optional. To: Change: PMDs compliant with this clause shall include the ACCEPT IN PRINCIPLE. PMD global transmit disable function which allows the optical transmitter to be disabled. The project has three distance reach objectives, we should have three pairs of PHYs. Proposed Response Response Status W Remove -BR40+ PHYs for all speeds from .3cp draft D2.0 PROPOSED ACCEPT. Group comments #19, 219, 70, 233, 234, 31, 155, 63, 215, 199, 163, 62, 187, 217 P51 L11 C/ 158 SC 158.5.6 # 48 C/ 158 Р SC 158.6 # 188 ADI, Cisco, CommScope, Marvell, SenTekSe Zimmerman, George Stassar, Peter Huawei Comment Type E Comment Status A Comment Type ER Comment Status A It seems the font size in 158.5.6 has gotten smaller. For several parameters in Table 158-6, 158-7 and 158-8 there is a "zero" after the decimal SuggestedRemedy point. Remove the decimal point and "zero" after it. Correct font size in 158.5.6 to be consistent with the rest of the draft SuggestedRemedy Response Response Status C Remove the decimal point and "zero" after it for those parameters with integer values ACCEPT. Response Response Status C ACCEPT.

C/ 158 SC 158.6 P51 L45 # 270 C/ 158 SC 158.6.1 P52 L48 # 80 Dawe. Piers Nvidia Laubach, Mark Self Comment Type Т Comment Status D LATE Comment Type Т Comment Status A There should be something about the possibilities (or not) for interoperation between the and line 50. The unit cells are blanks for eye mask. Same for Table 159-6 on page 71, different grades of PMD. Also for Clause 159. The text in 160 needs attention, a minimum Table 159-7 on page 72. insertion loss would be needed. I think. SuggestedRemedy SuggestedRemedy Insert "UI" for the Unit value in the table for these two rows (or other appropriate unit value). See P802.3cu for examples of how to do this. Response Response Status C Proposed Response Response Status W ACCEPT IN PRINCIPLE PROPOSED REJECT. Use a long dash to the two unit cells Group decided to remove interop subclauses as they do not make sense to BiDi PHYs. In C/ 158 SC 158.6.1 P52 / 49 # 272 addition, some PHYs use different wavelengths, codings, FEC, these make interop impossible Dawe, Piers Nvidia Comment Type T Comment Status D I ATF C/ 158 SC 158.6.1 P52 / 19 # 271 Definition B is preferable Dawe, Piers Nvidia Comment Type Ε Comment Status D I ATF SuggestedRemedy Blank line Suggest remove the obsolete transmitter eye mask definition A Proposed Response Response Status W SuggestedRemedy PROPOSED REJECT Remove Proposed Response Response Status W Definitions A and B are in 10GBASE spec. Clause 158 copies both. Need group decision PROPOSED ACCEPT C/ 158 SC 158.6.2 P53 L40 # 182 C/ 158 P52 L 29 # 218 SC 158.6.1 Stassar, Peter Huawei Hewlett Packard Enterprise Law. David Comment Type TR Comment Status A Comment Type TR Comment Status D In latest optical PMD specifications no longer "Receive electrical 3 dB upper cutoff frequency (max)" is included because it cannot be measured at TP3 and is part of the Doesn't the -D PHY Tx centre wavelength range have to match the -U PHY Rx centre implementation wavelength range, and vice versa? As an example, the 10GBASE-BRx-D PHY Tx centre wavelength (range) is 1320 to 1340 nm in Table 158-6 (page 52, line 29) which is the same SugaestedRemedy as the 10GBASE-BRx-D PHY Rx centre wavelength (range) of 1320 to 1340 nm in Table Remove row for "Receive electrical 3 dB upper cutoff frequency (max)" 158-7 (page 53, line 24), while the 10GBASE-BRx-U PHY Rx centre wavelength (range) is

Response

ACCEPT

SuggestedRemedy

Correct here, and for other PHYs, if necessary.

1260 to 1280 nm in Table 158-7 (page 53. line 26). This doesn't seem correct.

Proposed Response Response Status W

PROPOSED REJECT.

BRx-U and BRx-D use different wavelengths

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/ 158 SC 158.6.2

Response Status C

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C/ 158

C/ 158 SC 158.6.2 P53 L49 # 273 Dawe. Piers Nvidia

Comment Type Т Comment Status D Stassar, Peter Huawei

SC 158.6.3

LATE Comment Type

Extinction ratio: 3.5 dB is OK for 10GBASE-L. 3 dB for 10GBASE-E. 3 for 25GBASE-LR. 4 for 25GBASE-ER, why would 10GBASE-BR40 need 5.5 dB? Is this a typo?

SuggestedRemedy

Reduce to lower than 10GBASE-BR20 and 10GBASE-BR40+, e.g. 4.5 or 4 dB.

Proposed Response Response Status W

PROPOSED REJECT

P52 L42

ER 5.5 copies from 10GBASE-ER spec. BR20 and BR40+ specs are new.

C/ 158 P54 L14 # 192 SC 158.6.3

Stassar, Peter Huawei Comment Type TR Comment Status A

It doesn't make sense to have 15 dB for 20km and 18 dB for 40km. 15 dB would rather be a channel loss for a 30km channel as in clause 114 for 25GBASE-ER. Also applies to 159 and 160

SugaestedRemedy

Define an appropriate channel insertion loss for 20km, e.g. 11 or 12 dB, and optimize power values in Table 158-6 and Table 158-7. Also in 159 and 160

Response Response Status U

ACCEPT IN PRINCIPLE.

Editorial license: To justify 15 dB add text to describe 0.5 dB/km fiber loss and 5 dB connection loss in Clauses 158-160

TR Comment Status R Channel insertion loss numbers do not add up using the attenuation coefficient and the allocation for connector and splice loss of 2 dB. This comment is related to another comment requesting a change in attenuation coefficient. Compare with other recent optical PMDs and make numbers consistent between Clauses 158, 159 and 160.

P54

L14

191

SugaestedRemedy

Make numbers consistent for channel insertion loss in Clauses 158, 159 and 160

Response Response Status U

REJECT.

No consensus reached from the group to make changes to the draft.

C/ 158 SC 158.6.3 P54 L21 # 81

Laubach, Mark Self Comment Type Ε Comment Status A

Suggest a cross reference for table footnote c.

SuggestedRemedy

Add a cross reference to CL158.11.1

Response Response Status C

ACCEPT IN PRINCIPLE.

Remove the second sentence beginning with "Attenuation" from footnote c. See#194

C/ 158 SC 158.6.3 P 54 L22 # 190

Stassar, Peter Huawei Comment Type TR Comment Status R

An attenuation of 0.4 dB/km is used, 0.43 dB/km in Table 159-8 and 0.5 dB/km in Table 160-6. Use a single value for all 3 clauses, preferably 0.5 dB/km to make the specifications consistent. Now they are all different. Applies similarly to 159 and 160

SugaestedRemedy

Change loss to 0.5 dB/km consistent with other recent PMDs like P802.3cu in 158 and 159 and with clause 160

Response Response Status U

REJECT.

No consensus reached from the group to make changes to the draft.

LATE

Comment Type TR Comment Status A

Reference is made to Table 52-11 and cross reference is missing. Change to Table 158-5 with cross reference

SuggestedRemedy

Change to Table 158-5 with cross reference

Response Response Status C

ACCEPT.

C/ 158 SC 158.8 P37 L50 # 277

Dawe Piers Nvidia

Jawe, 1 lei3

Comment Type T Comment Status D

The minimum dispersion for a 40 km PMD was set at zero in 52.9.10.2 because the 1550 nm signal was always at a longer wavelength than the dispersion zero. Here, we don't know that. All we know is that the 10GBASE-BRx-U signal is always at a shorter wavelength than the dispersion zero.

SuggestedRemedy

The table could be split for U and D. If not, the simple solution is:

PMD Min Max

BR10 min(f1(lambda), 0) max(f2(lambda), 0)

BR0 min(f3(lambda), 0) max(f4(lambda), 0)

BR40 min(f5(lambda), 0) max(f6(lambda), 0)

where f1 2 3 4 6 are as now, f5 is 0.93.lambda.[1- (1324 / lambda)^4]

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Table 158-9, change cell "0" into "0.93*lambda*[1- (1324 / lambda)^4]"

CI 158 SC 158.8 P54 L33 # 274

Dawe, Piers Nvidia

Comment Type T Comment Status D

LATE

"Optical measurement requirements" this was copied from Clause 38 to 52 then 58-60 but later it was decided that this was incorrect; 802.3 is not a test spec, the measurements are not required, only the compliance is. So Clause 68 and later optical PMD clauses use different wording.

SuggestedRemedy

Change to:

Definition of optical parameters and measurement methods

Proposed Response

Response Status W

PROPOSED ACCEPT.

CI 158 SC 158.8 P54 L37 # 275

Dawe, Piers Nvidia

Comment Type T Comment Status D

LATE

"shall be conducted" isn't suitable wording, as there is no requirement to conduct the test. Here is example wording based on what has been used in 802.3ba and later projects:

SuggestedRemedy

Stressed receiver sensitivity shall be within the limits given in Table 158-7 if measured using the method defined by 52.9.9, with the additional condition that the transmitted optical signal and the reflectance of the optical link are at their maximum levels.

Proposed Response Status W

PROPOSED ACCEPT.

Also check clauses 159 and 160

Cl 158 SC 158.8 P54 L38 # 276

Dawe, Piers Nvidia

Comment Type T Comment Status D

LATE

What does "condition that the transmitted optical signal and \dots should be at their maximum levels" mean?

SuggestedRemedy

Should this say that the transmitter reflectance should be at maximum?

Proposed Response Status **W**

PROPOSED ACCEPT IN PRINCIPLE.

See #275

Cl 158 SC 158.8 P54 L47 # 178

Stassar, Peter Huawei

Comment Type TR Comment Status A

The dispersion equation provides too high values for current latest G.652 fibers. Value of 0.2325 should be 0.23. Applies also to 160.7

SuggestedRemedy

Change 0.2325 to 0.23. In Clauses 158 and 160

Response Status C

ACCEPT.

C/ 158 SC 158.8 P54 L49 # 179

Stassar, Peter Huawei

Comment Type TR Comment Status A

The dispersion equation provides too high values for current latest G.652 fibers. Value of 0.465 should be 0.46. Applies also to 160.7

SuggestedRemedy

Change 0.465 to 0.46. In Clauses 158 and 160

Response Status C

ACCEPT.

C/ 158 SC 158.8 P54 L51 # 180

Stassar, Peter Huawei

Comment Type TR Comment Status A

The dispersion equation provides too high values for current latest G.652 fibers. Value of 0.93 should be 0.92. Plus the negative dispersion is not zero but similar equation as for minimum dispersion for 20km but with 0.92 as a coefficient, Applies also to 160.7

SuggestedRemedy

Change 0.93 to 0.92, plus add equation for minimum dispersion. In Clauses 158 and 160

Response Response Status C

ACCEPT IN PRINCIPLE.

Revise values in Comments #178-180 and apply changes to dispersion values

Cl 158 SC 158.9 P55 L6 # 184

Stassar, Peter Huawei

Comment Type TR Comment Status A

Safety requirements have recently been changed. Please refer to P802.3cu requirements. Also applies to 159 and 160

SuggestedRemedy

Implement safety requirements as in P802.3cu D2.2 151.9. Also in 159.8 and 160.8

Response Status C

ACCEPT IN PRINCIPLE.

Follow .3cu D3.0 to refer to J.2, apply same statement to Clauses 159 and 160.

CI 158 SC 158.9 P55 L6 # 94

Grow, Robert RMG Consulting

Comment Type TR Comment Status A

An indirect reference like this should not be used because of the difficulty of properly maintaining the document. Because the subclauses of 52.10 specifically reference port types, it could be argued that the requirements do not apply because clause 52 does not reference 10BASE-BRx port types.

SuggestedRemedy

A general safety subclause should copy P802.3cr 52.10.1, and the other clauses can copy the relevant subclauses of the latest revision or amendment that changes the text of the relevant subclause.

If indirection is still desired, the port type lists in Clause 52 need to be deleted (preferred) or expanded to include 10GBASE-BRx.

Response Response Status W

ACCEPT IN PRINCIPLE.

See #184, editorial license to add safety requirements as .3cu, .3ct

C/ 158 SC 158.10 P56 L4 # 216 C/ 158 Stassar, Peter Law. David Hewlett Packard Enterprise Comment Type Т Comment Status D Comment Type The vertical bar separating the top two rows of Table 158–10 'Fiber optic cabling (channel) characteristics' seem to exclude the fibre type and wavelength rows for 40+ which doesn't seem to be correct.

L7

217

40+

SuggestedRemedy

Delete the vertical bar separating the top two rows of Table 158–10.

Proposed Response Response Status W
PROPOSED ACCEPT.

C/ 158 SC 158.10 P56

Law, David Hewlett Packard Enterprise

Comment Type TR Comment Status D

The operating distance (max) specified in Table 158–10 'Fiber optic cabling (channel) characteristics' is really a 'minimum operating distance (max)', for example a 10GBASE-BR20 PHY that can operate at 25 km is a conformant 10GBASE-BR20 PHY even though it exceeds the 20 km operating distance (max) specified in Table 158–10 for that PHY type. For the same reason a 10GBASE-BR40 PHY that can operate in excess of 40 km is a conformant 10GBASE-BR40 PHY. It is therefore not clear what the difference is between a 10GBASE-BR40 PHY and a 10GBASE-BR40+ PHY as it is conformant for both to operate in excess of 40 km.

SuggestedRemedy

Please clarify what the reach difference is between a 10GBASE-BR40 PHY and a 10GBASE-BR40+ PHY, as well as for the 25GBASE-BR40 PHY and a 25GBASE-BR40+ PHY and the 40GBASE-BR40 PHY and a 40GBASE-BR40+ PHY.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE

BR40 is for 30 km, BR40+ is for 40 km, See #19 Group comments #19, 219, 70, 234, 31, 155, 63, 214, 199, 163, 62, 187, 217

 CI 158
 SC 158.10
 P56
 L12
 # 193

 Stassar, Peter
 Huawei

 Comment Type
 TR
 Comment Status A

Reference is made to Table 158-9 so that the reader will need to calculate maximum dispersion numbers themselves. Chromatic dispersion values at nominal wavelengths are likely to provide too optimistic estimates for worst case TDP (or TDECQ in 160). The applicable values at extreme wavelengths need to be in this Table as in other recent optical PMDs. Also applies to 159 and 160

SuggestedRemedy

Add chromatic dispersion numbers at extreme wavelengths for each PMD, e.g. as in Clause 114, Table 114-11 for 25GBASE-LR/ER and use similar Table formatting as for Clause 114.

Response Response Status C

ACCEPT IN PRINCIPLE.

Editorial license to calculate "Positive dispersion (max)" and "Negtive dispersion (min)", fill into Table 158-10, update Note d.

CI 158 SC 158.10 P56 L25 # 278

Dawe, Piers Nvidia

Comment Type E Comment Status D LATE

Blank line

SuggestedRemedy

Remove

Proposed Response Status W

PROPOSED ACCEPT.

C/ 158 SC 158.11.1 P56 L33 # 194 C/ 158 SC 158.12 P58 **L1** # 280 Stassar, Peter Huawei Dawe. Piers Nvidia Comment Type TR Comment Status A Comment Type Ε Comment Status D LATE For recent optical PMDs, reference is made to ITU-T G.652 or G.657 fibers as in P802.3cu. Subclause title is shorter than past clauses, which is an improvement. However, "for 158" Also applies to 159.10 and 160.10 is too abrupt. SuggestedRemedy SuggestedRemedy Change to fiber types in P802.3cu, D2.2, Subclause 151.11.1 "The optical fiber cable Change the format of the cross-reference to 158 so that the title becomes: requirements are satisfied by cables containing ITU-T G.652.B (dispersion unshifted), type Protocol implementation conformance statement (PICS) proforma for Clause 158 G.652.D (low water peak, dispersion unshifted), or type G.657.A1, or type G.657.A2 (bend insensitive) fibers...." or similar. In 158, 159 and 160 Protocol implementation conformance statement (PICS) proforma for Clause 158, Physical Medium Dependent (PMD) sublayer and medium, types 10GBASE-BR10, 10GBASE-Response Response Status C BR20, 10GBASE-BR40, and 10GBASE-BR?? Similarly for 159.11 and 160.11. ACCEPT IN PRINCIPLE. Proposed Response Response Status W Editorial license to change reference to ITU-T G.652 or G.657 fibers as in P802.3cu. PROPOSED ACCEPT. # 279 C/ 158 SC 158.11.1 P56 L37 Add "Clause" before "158". Do same changes to Clauses 159 and 160. Dawe. Piers Nvidia C/ 158 SC 158.12.2.2 P58 **L40** # 54 Comment Type Comment Status D Т LATE Lewis. Jon Dell FMC This NOTE was written for a 1550 nm PMD. Comment Status A Comment Type SuggestedRemedy Date is shown specifically and should be 202x as the draft isn't published Needs review because different wavelength here SuggestedRemedy Proposed Response Response Status W Change "IEEE Std 802.3cp-2020" to "IEEE Std 802.3cp-202x" PROPOSED ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT. Delete the note as it is not relevant Global update of this item C/ 158 SC 158.12.4.3 P61 L19 # 38 Hajduczenia, Marek Charter Comment Type ER Comment Status A Empty subclause or table anchor was moved? SuggestedRemedy Fix the table placement The same applies for 158.12.4.5, 158.12.4.8 Response Response Status C

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/ 158 SC 158.12.4.3 Page 44 of 53 7/15/2020 4:10:57 PM

C/ 158 SC 158.12.4.3 P61 L19 # 82 C/ 158 SC 158.12.4.7 P62 L32 # 39 Laubach, Mark Self Hajduczenia, Marek Charter Comment Type Ε Comment Status A Comment Type E Comment Status A This subclause looks empty. Same for 158.12.4.5 on the next page. And same for Text format in 158.12.4.7 table is incosistent with the rest of PICS tables 158.12.4.8. SuggestedRemedy SuggestedRemedy Align the formatting Adjust framemaker to have the tables flow properly with the headings. Response Response Status C Response Response Status C ACCEPT ACCEPT. C/ 158 SC 158.12.4.8 P63 L3 C/ 158 SC 158.12.4.3 P61 L21 # 55 Lewis, Jon Dell EMC Lewis, Jon Dell EMC Comment Type Ε Comment Status A Comment Type E Comment Status A Headings are listed with the tables out of order. Table with ES1 should be before Headings are listed with the tables out of order. Table with BR101 should be before 158.12.4.9 158.12.4.4 SuggestedRemedy SuggestedRemedy Move Table with ES1 above the heading line for 158.12.4.9 Move Table with BR101 above the heading line for 158.12.4.4 Response Response Status C Response Response Status C ACCEPT. ACCEPT. C/ 158 SC 158.12.4.8 P63 **L8** # 58 C/ 158 SC 158.12.4.5 P62 L3 # 56 Lewis. Jon Dell EMC Lewis, Jon Dell FMC Comment Type TR Comment Status A Comment Type E Comment Status A Clause 52 is currently part of P802.3cr. The referenced text needs to align with P802.3cr. Headings are listed with the tables out of order. Table with BR401 should be before SuggestedRemedy 158.1.4.6 Change the Value/Comment field to "Conforms with J.2" where J.2 is green for external SuggestedRemedy cross reference. Move Table with BR401 above the heading line for 158.12.4.6 Response Response Status W

ACCEPT.

Response

ACCEPT.

Response Status C

C/ 158 SC 158.12.4.9 P63 **L8** # 95 C/ 159 SC 5.4 P69 **L9** Grow. Robert RMG Consulting DeAndrea, John Finisar/ /II-VI Comment Type TR Comment Status A Comment Type Ε Comment Status A In E1 through E4, the subclause should not be pointing to something in clause 52. Table 159-4, SIGNAL DETECT value, FAIL, outlines (2) average powers for the PMD options, of (4) types, -10, -20, -40, and -40+ SuggestedRemedy SuggestedRemedy Point to whatever the result is in clause 158 based on changes from other comments. Suggested change: add other (2) PMD types and comment for power levels Response Response Status W Response Response Status C ACCEPT ACCEPT IN PRINCIPLE. Point to 158.9 Change text to show -20 dBm is for BR10, -26 dBm is for BR20/40 18 C/ 158 SC 158.12.4.9 P63 # 96 C/ 159 SC 5.4 P69 L9 Grow. Robert RMG Consulting DeAndrea, John Finisar/ /II-VI Comment Status A Comment Type TR Comment Type T Comment Status A E1 is not properly written. P802.3cr is eliminating references to IEC 60950-1. Table 159-4 The Table shows a value of -20 dBm for 25GBASE-BR10 and -26 dBm for SuggestedRemedy 25GBASE-BR-10. I believe there is a typo, because the PMD has (4) types, -BR10, -The PICs should point to J.2 which is being inserted by P802.3cr. If indirection is retained, BR20, -BR40, and -BR40+ the PICs could be written more like E1 in Clause 159 to eliminate a contradiction to SugaestedRemedy P8023cr. Suggest modifying, from "-26 dBm for 25GBASE-BR-10" to "-26 dBm for 25GBASE-BR-20" Response Response Status W Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. See #184 See #1 C/ 158 SC 158.12.4.9 P64 **L1** # 160 C/ 159 SC 159.1 P65 **L8** # 74 Maguire, Valerie The Siemon Company Nicholl, Shawn Xilinx Comment Type E Comment Status D Comment Type ER Comment Status A Extra blank page PMDS should have a lowercase "S". SuggestedRemedy SugaestedRemedy Delete blank page Replace "PMDS together" with "PMDs together" Proposed Response Response Status W Response Response Status W PROPOSED ACCEPT. ACCEPT.

C/ 159 SC 159.3 P67 L5 # 161 C/ 159 SC 159.6 P73 L19 # 83 Maguire, Valerie The Siemon Company Laubach, Mark Self Comment Type E Comment Status D Comment Type Ε Comment Status A "1" and "pause quantum" should be on the same line 88.11.2.1 needs to be an indicated cross reference. SuggestedRemedy SuggestedRemedy Insert non-breaking space between "1" and "pause quantum" Change text color to forest green Proposed Response Response Response Status W Response Status C PROPOSED ACCEPT ACCEPT C/ 159 SC 159.5.4 L13 C/ 159 SC 159.6.1 P71 L15 P69 # 172 # 133 Wey, Jun Shan ZTE TX Inc Dudek, Mike Marvell Comment Type TR Comment Status D Comment Type TR Comment Status A It is inappropriate in a standard to say "and poor 25GBASE-BR20 is left to the wind". Propose to revise Average launch power (min) for BR20 in Table 159-6 in order to align with the ITU-T G.9806 SuggestedRemedy SuggestedRemedy This problem needs to be fixed to create an inter-operable standard. Table 159-6 Proposed Response Response Status W Revise the average launch power (min) spec from -6 dBm to -7.5 dBm PROPOSED ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT. See #1 SC 159.5.9 P70 L9 # 128 C/ 159 SC 159.6.1 P71 L15 # 134 C/ 159 Wienckowski. Natalie **General Motors** Wey, Jun Shan ZTE TX Inc Comment Type E Comment Status D Comment Type TR Comment Status A Propose to revise Average launch power (min) for BR40+ in Table 159-6 in order to align typo with the ITU-T G.9806 SuggestedRemedy SuggestedRemedy Change: 25BASE-BRx-U To: 25GBASE-BRx-U Table 159-6 Revise the average launch power (min) spec from +2 dBm to +0.5 dBm Proposed Response Response Status W Response Response Status C PROPOSED ACCEPT. ACCEPT IN PRINCIPLE.

See #187, BR40+ PHYs are removed from this document

C/ 159 SC 159.6.1 P71 L21 # 135 C/ 159 SC 159.6.1 P71 L22 # 138 Wey, Jun Shan 7TF TX Inc. Wey, Jun Shan 7TF TX Inc. Comment Type TR Comment Status A Comment Type TR Comment Status A Propose to revise Optical Modulation Amplitude (min) for BR20 in Table 159-6 in order to Propose to revise Launch power OMA minus TDP (min) for BR40+ in Table 159-6 in order align with the ITU-T G.9806 to align with the ITU-T G.9806 SuggestedRemedy SuggestedRemedy Table 159-6 Table 159-6 Revise the Optical Modulation Amplitude (min) spec from -3.0 dBm to -4.5 dBm Revise the Launch power OMA minus TDP (min) spec from +4.0 dBm to +2.5 dBm Response Response Status C Response Response Status C ACCEPT. ACCEPT IN PRINCIPLE. See #187, BR40+ PHYs are removed from this document P71 C/ 159 SC 159.6.1 L21 # 136 C/ 159 SC 159.6.2 P72 L17 # 140 Wey, Jun Shan ZTE TX Inc. Wev. Jun Shan ZTE TX Inc Comment Status A Comment Type TR Comment Status A Comment Type TR Propose to revise Optical Modulation Amplitude (min) for BR40+ in Table 159-6 in order to Propose to revise Average receive power (min) for BR 40+ in Table 159-7 in order to align align with the ITU-T G.9806 with the ITU-T G 9806 SuggestedRemedy SuggestedRemedy Table 159-6 Table 159-7 Revise the Optical Modulation Amplitude (min) spec from +5.0 dBm to +3.5 dBm Revise the Average receive power (min) spec from -21.0 dBm to -22.5 dBm Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. See #187, BR40+ PHYs are removed from this document See #187, BR40+ PHYs are removed from this document C/ 159 SC 159.6.1 P71 L22 # 137 SC 159.6.2 C/ 159 P72 / 17 # 139 Wey, Jun Shan ZTE TX Inc ZTE TX Inc Wey, Jun Shan Comment Type TR Comment Status A Comment Type TR Comment Status A Propose to revise Launch power OMA minus TDP (min) for BR20 in Table 159-6 in order to Propose to revise Average receive power (min) for BR 20 in Table 159-7 in order to align align with the ITU-T G.9806 with the ITU-T G.9806 SuggestedRemedy SuggestedRemedy Table 159-6 Table 159-7 Revise the Launch power OMA minus TDP (min) spec from -4.0 dBm to -5.5 dBm

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

Response Status C

Response

ACCEPT.

SORT ORDER: Clause, Subclause, page, line

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

Response

ACCEPT.

Revise the Average receive power (min) spec from -21.0 dBm to -22.5 dBm

C/ 159

SC 159.6.2

Response Status C

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C/ 159 SC 159.6.2 P72 L23 # 141 C/ 159 SC 159.7 P73 Stassar, Peter Wey, Jun Shan 7TF TX Inc. Huawei Comment Type TR Comment Status A Comment Type TR Comment Status A Propose to revise Rx sensitivity (max) in OMA for BR 20 in Table 159-7 in order to align with the ITU-T G.9806 SuggestedRemedy Table 159-7 and 160.7 referring to 139.7 Revise the Rx sensitivity (max) in OMA spec from -19.0 dBm to -20.5 dBm SuggestedRemedy Response Response Status C ACCEPT. Response Status C Response P72 C/ 159 SC 159.6.2 L23 # 142 ACCEPT IN PRINCIPLE Wey, Jun Shan ZTE TX Inc. Comment Status A Comment Type TR Line number should be 26. Propose to revise Rx sensitivity (max) in OMA for BR 40+ in Table 159-7 in order to align with the ITU-T G.9806 SuggestedRemedy C/ 159 SC 159.8 P73 Table 159-7 Grow. Robert Revise the Rx sensitivity (max) in OMA spec from -19.0 dBm to -20.5 dBm Comment Type ER Comment Status A Response Status C ACCEPT IN PRINCIPLE. See #187, BR40+ PHYs are removed from this document SuggestedRemedy C/ 159 SC 159.6.3 P73 L20 # 129 corresponding PICS items in 159.11.4.8. Wienckowski, Natalie General Motors Response Response Status W Comment Type E Comment Status D ACCEPT IN PRINCIPLE. 88.11.2.1 should be marked as an external link as it isn't in this draft. SuggestedRemedy Change the character tag on "88.11.2.1" to External which will turn it green. C/ 159 SC 159.9 P73 Proposed Response Response Status W Dudek. Mike Marvell PROPOSED ACCEPT Comment Type Ε Comment Status D

L20 # 183 By referring to 114.7 automatically all the requirements of 114 are followed, introducing a lot of differences with the values in 159.6. Add full details as in other reject optical PMDs and apply all changes appropriate for 159. Especially the channel requirement in 114.7 refer to 88.8.5.2. Missing are requirements for 20km. Also applies to 158.8 referring to 52.9 Add full details as in other reject optical PMDs and apply all changes appropriate for 159, and also 158 and 160. Including table for Transmitter compliance channel specifications Editorial license to make inline changes to 114.7 (25G), 52.9 (10G), 139.7/CU/140/151 L33 # 97 RMG Consulting The indirection is getting a bit absurd. This points to 114.8, and 114.8 points to 112.8. Then you have the same problem of 112.8 specifications being specific to 25GBASE-SR. If still using indirection, remove the two levels of indirection and point to 112.8. Fix Editorial license to use content in 802.3cu D2.2 Clause 151.9 for .3cp 159.8 L48 # 173 Table 159-9 is split across a page break which makes it hard to read. SuggestedRemedy Put it all on one page. Proposed Response Response Status W

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7/15/2020 4:10:57 PM

PROPOSED ACCEPT.

SORT ORDER: Clause, Subclause, page, line

C/ 159 SC 159.9 P74 L1 # 130 C/ 160 SC 160.3 P85 L # 195 Huawei Wienckowski. Natalie General Motors Stassar, Peter Comment Type E Comment Status D Comment Type TR Comment Status A The table title needs (continued) in it. Skew constraints as in 139.3.2 as missing SuggestedRemedy SuggestedRemedy See instructions in 200.1.1.1.1 in the 802.3 FM template. Add skew constraints consistent with 139.3.2 Proposed Response Response Response Status W Response Status C PROPOSED ACCEPT ACCEPT IN PRINCIPLE Add "and Skew" to the title. Editorial license to add skew constraints consistent with C/ 159 SC 159.11.2.2 P76 L42 # 59 139.3.2 to Clause 160. Dell EMC Lewis, Jon C/ 160 SC 160.3 P85 Comment Type E Comment Status A L36 # 162 Date is shown specifically and should be 202x as the draft isn't published Maguire, Valerie The Siemon Company Comment Type E Comment Status D SuggestedRemedy "2" and "pause quantum" should be on the same line Change "IEEE Std 802.3cp-2020" to "IEEE Std 802.3cp-202x" Response SuggestedRemedy Response Status C Insert non-breaking space between "2" and "pause guantum" ACCEPT. Proposed Response Response Status W C/ 160 SC 160.1 P83 L16 # 131 PROPOSED ACCEPT. Wienckowski. Natalie General Motors SC 160.5.4 Comment Status D C/ 160 P87 L42 # 174 Comment Type E When refering to the "top" of a Clause, you need to include "Clause" in the reference. Dudek, Mike Marvell Comment Type TR Comment Status D SuggestedRemedy The average receive power min fo BR20 etc. is -17.6dB. So a power of -17dB should have Change: 45 To: Clause 45 signal detect =OK, but the other line says <-16dB is Fail. It can't meet both lines SuggestedRemedy Proposed Response Response Status W Change the signal detect FAIL level from <-16dBm to <-20dBm for BR20 etc. PROPOSED ACCEPT Proposed Response Response Status W PROPOSED ACCEPT.

CI 160 SC 160.6 P L # 185

Stassar, Peter Huawei

Comment Type TR Comment Status R

Specification methodology and parameters for PAM4 optical signals have recently been modified in P802.3cu. Parameters have been deleted, added or modified. Often to simplify the specification. Align with P802.3cu D2.2. Especially TDECQ – 10log10(Ceq)c (max) has been removed as Tx parameter and SECQ – 10log10(Ceq)f (max) as Rx parameter. TECQ has been added, as well as TDECQ - TECQ, Transmitter over/under-shoot (max), Transmitter peak-to-peak power (max). "OMA minus TDECQ = value" has been modified to "OMA = value + TDECQ". In a similar way receiver sensitivity specification has been modified. Etcetera

SuggestedRemedy

Align PAM4 specification methodology with P802.3cu D2.2.

Response Status U

REJECT.

C/ 160

No consensus reached on addressing the remedy PAM4 spec in Clause 160.

The defined feathful of addressing the remedy (/ time epoc in clause feet

Law, David Hewlett Packard Enterprise

Comment Type T Comment Status D

SC 160.6

The text 'A PMD that exceeds the operating range requirement ...' is followed by the example 'e.g., a 50GBASE-BR10 PMD operating at 2.5 km ...'. This however isn't an example of a PMD that exceeds the operating range requirement as 2.5 km is within the operating range requirement of 2 m to 10 km.

P88

1 52

220

SuggestedRemedy

Suggest that the text '... at 2.5 km ...' be changed to read '... at 12.5 km ...'.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 160 SC 160.6 P88 L53 # 226

Maki, Jeffery Juniper Networks

Comment Type TR Comment Status D

The provide example (e.g., a 50GBASE-BR10 PMD operating at 2.5 km meets the operating

range requirement of 2 m to 10 km) has a typo.

SuggestedRemedy

Replace 2.5km with 12.5km.

Proposed Response Status W

PROPOSED ACCEPT.

See #220

C/ 160 SC 160.6 P88 L54 # 227

Maki, Jeffery Juniper Networks

Comment Type TR Comment Status D

"The 50GBASE-BR40 PMD interoperates with the 50GBASE-BR10...". The 50GBASE-

BR40 transmit and receive wavelength is not compatible with 50GBASE-BR10.

50GBASE-BR10-D center wavelengths (range): 1320nm to 1340 mm

50GBASE-BR10-U center wavelengths (range): 1260nm to 1280 nm

50GBASE-BR40-D center wavelengths (range): 1306nm to 1322nm

50GBASE-BR40-U center wavelengths (range): 1281nm to 1297nm

SuggestedRemedy

Remove 50GBASE-BR10 PMD as an example of interoperability with the 50GBASE-BR40 PMD leaving one example, the 50GBASE-BR20 PMD.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Remove this sentence as group decided to delete interop content

C/ 160 SC 160.6.1 P89 / 14 # 84

Laubach, Mark Self

Comment Type E Comment Status A

121.8.5.3 needs to be an indicated cross reference. Same in footnote of next table.

SuggestedRemedy

Change text color to forest green

Response Status C

ACCEPT.

C/ 160 SC 160.6.1 P89 L51 # 175 C/ 160 SC 160.7 P91 L35 # 177 Dudek. Mike Marvell Dudek. Mike Marvell Comment Type TR Comment Status D Comment Type Т Comment Status D The Average launch power of OFF transmitter must be less than the Fail level of the Signal The sentence is wrong. Measurements don't meet the specifications and there are detect for the signal detect to work properly. exceptions. SuggestedRemedy SuggestedRemedy Change the value for BR20 etc. to -20dBm (see other comment for why -20 not -16) Change to "Optical measurement methods are defined in 139.7 with the following Proposed Response Response Status W 1 The transmitter is tested using an optical channel that meets the requirements listed in PROPOSED ACCEPT. Table 160-9 2 The stressed receiver conformance test shall be conducted under the additional condition C/ 160 SC 160.6.1 P90 L14 # 132 that the transmitted optical signal and the reflectance of the optical link should be at their maximum levels." Wienckowski. Natalie General Motors Proposed Response Response Status W Comment Type E Comment Status D PROPOSED ACCEPT IN PRINCIPLE. 121.8.5.3 should be marked as an external link as it isn't in this draft. SuggestedRemedy C/ 160 P92 SC 160.8 **L6** # 98 Change the character tag on "121.8.5.3" to External which will turn it green. Grow, Robert RMG Consulting Also on P91L8 Comment Type TR Comment Status D Proposed Response Response Status W Another example of indirection problems. Laser safety descriptions include port types in PROPOSED ACCEPT. the description. General safety is changed by P802.3cr, etc. SuggestedRemedy C/ 160 SC 160.6.2 P90 L42 # 176 Change (or not) consistent with changes made to 158 and 159. Dudek. Mike Marvell Proposed Response Response Status W Comment Type TR Comment Status D PROPOSED ACCEPT IN PRINCIPLE. The receive power (OMAouter) max values are wrong for BR20 and BR40+. (or the Tx OMA outer max values are wrong) The min attenuation for 20km is 0dB, for 40km 10dB. C/ 160 SC 160.11.2.2 P94 L40 # 60 SuggestedRemedy Dell EMC Lewis, Jon Change BR20 to 4.4dBm, and BR40+ to 2.4dBm. Comment Type Ε Comment Status D Proposed Response Response Status W Date is shown specifically and should be 202x as the draft isn't published PROPOSED ACCEPT IN PRINCIPLE. SuggestedRemedy BR20's MAX OMA should be 4.4 dBm, BR40 remains at -2.6 dBm, BR40+ should be 2.4 Change "IEEE Std 802.3cp-2020" to "IEEE Std 802.3cp-202x"

Proposed Response

PROPOSED ACCEPT.

Response Status W

C/ 160 SC 160.11.3.1 P96 L1 # 85

Laubach, Mark Self

Comment Type E Comment Status A

The heading text is broken across two pages.

SuggestedRemedy

Keep the entire heading text on the same page.

Response Status C

ACCEPT.