

IEEE P802.3ck D1.1 100/200/400 Gb/s Electrical Interfaces Task Force 2nd Task Force review comments

Cl 1 SC 1.1.3.2 P 30 L 49 # 1 [REDACTED]
 Marris, Arthur Cadence Design Systems
 Comment Type E Comment Status D bucket
 "Three" should be underlined
 SuggestedRemedy
 Underline the word "Three"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 1 SC 1.5 P 32 L 8 # 2 [REDACTED]
 Marris, Arthur Cadence Design Systems
 Comment Type T Comment Status D bucket
 Should the MDI specifications listed in 162.12 be included in 1.5 (Abbreviations) or 1.3 (Normative references)?
 SuggestedRemedy
 Add SFP, DSFP, QSFP and OSFP to "1.5 Abbreviations", and the appropriate reference for DSFP and OSFP to "1.3 Normative references"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Abbreviations for connector names have not been defined for clauses currently in IEEE Std 802.3-2018. The normative references define the related abbreviations. So abbreviations for these are not necessary.
 Add normative references for the missing specifications.

Cl 69 SC 69.1.1 P 62 L 13 # 4 [REDACTED]
 Marris, Arthur Cadence Design Systems
 Comment Type E Comment Status D bucket
 "service interface or 200Gb/s or 400Gb/s providing" does not read right
 SuggestedRemedy
 Change to "service interface or at 200Gb/s or 400Gb/s providing"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 69 SC 69.2.3 P 65 L 31 # 5 [REDACTED]
 Marris, Arthur Cadence Design Systems
 Comment Type T Comment Status D bucket
 Surely Inverse RS-FEC is optional?
 SuggestedRemedy
 Change M to O for Clause 152 to align with Table 80-3 which has Inverse RS-FEC as optional. Also make the nomenclature listed in Tables 80-3 and 69-3a match. For example for 161 make both be "100GBASE-P RS-FEC-Int"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 73 SC 73.6.4 P 68 L 26 # 55 [REDACTED]
 Brown, Matt Huawei Technologies Canada
 Comment Type E Comment Status D bucket
 Editing instruction is overly descriptive given that all information is shown in the table. But it would be helpful to show the previous unchanged row.
 SuggestedRemedy
 In the editing instruction delete "by adding the following new rows for A16, A17 and A18 and revising the reserved row".
 In Table 73-4, add one row with ellipse at the begin and insert unchange row for A15 above the new row A16.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 73 SC 73.6.5.a P 69 L 27 # 46 [REDACTED]
 Brown, Matt Huawei Technologies Canada
 Comment Type E Comment Status D bucket
 formatting
 SuggestedRemedy
 Use proper editing instruction format (bold + italic).
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 120 SC 120.5.7.2 P 99 L 46 # 61
 Ran, Adeel Intel
 Comment Type T Comment Status D bucket
 Following up on comment #220 against D1.0, which suggested that "136.8.11.7.5 is an incorrect cross-reference"
 After the discussion in the January meeting it became clear that it is the correct cross reference, but the text is misleading. Instead of referring to the PMD control function, it should refer to the PMD control state diagram, which is where the cross-reference points to.
 SuggestedRemedy
 Change from
 "precoder_tx_out_enable_i and precoder_rx_in_enable_i shall be set as determined by the PMD control function on lane i (see 136.8.11.7.5)"
 to
 "precoder_tx_out_enable_i and precoder_rx_in_enable_i shall be set as determined in the LINK_READY state of the PMD control state diagram on lane i (see 136.8.11.7.5)"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 120G SC 120G L 20 P 221 # 153
 Dudek, Mike Marvell
 Comment Type T Comment Status D bucket
 The referenced section for the eye measurements is not correct as 120E.4.2 uses the wrong reference equalizer.
 SuggestedRemedy
 Change 120E.4.2 to 120G.3.1.6.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 120G SC 120G.1 P 216 L 43 # 84
 Heck, Howard Intel
 Comment Type E Comment Status D bucket
 In figure 120G.1, I think "100GBASE-P" should be "100GBASE-R"
 SuggestedRemedy
 Change to "100GBASE-R"
 Proposed Response Response Status W
 PROPOSED REJECT.
 100GBASE-P is correct. 100GBASE-P PHY and 100GBASE-R PHY are defined in IEEE Std 802.3-2018 1.4.31 and 1.4.32, reproduced below. 100GAUI-1 requires use of an RS(544,514) FEC, which is specified for use only with 100GBASE-P PHYs.
 1.4.31 100GBASE-P: An IEEE 802.3 family of Physical Layer devices using 100GBASE-R encoding and a PMD that employs pulse amplitude modulation with more than 2 levels. (See IEEE Std 802.3, Clause 80.)
 1.4.32 100GBASE-R: An IEEE 802.3 family of Physical Layer devices using 100GBASE-R encoding and a PMD that employs 2-level pulse amplitude modulation. (See IEEE Std 802.3, Clause 80.)

Cl 120G SC 120G.1 P 217 L 29 # 83
 Heck, Howard Intel
 Comment Type E Comment Status D bucket
 "25.56 GHz" is incorrect.
 SuggestedRemedy
 Change to "26.56 GHz"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 120G SC 120G.1 P 217 L 29 # 81
 Healey, Adam Broadcom Inc.
 Comment Type E Comment Status D bucket
 The caption of Figure 120G-2 is cites the wrong frequency.
 SuggestedRemedy
 Change "100GAUI-1 C2M insertion loss budget at 25.56 GHz" to "100GAUI-1 C2M insertion loss budget at 26.56 GHz".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl **120G** SC **120G.2** P **220** L **10** # **93**
 Ghiasi, Ali Ghiasi Quantum/Inphi
 Comment Type **E** Comment Status **D** bucket
 Component not necessary
 SuggestedRemedy
 Remove component after host
 Proposed Response Response Status **W**
 PROPOSED REJECT.
 The term "host component" refers roughly to the transceiver device on the host. The term "host" is used as a label at the top of the diagram to include the host PCB traces as well as the host component. This is consistent with labelling in Figure 120G-2/3/4.
 See comment #94.

Cl **120G** SC **120G.2** P **220** L **32** # **94**
 Ghiasi, Ali Ghiasi Quantum/Inphi
 Comment Type **ER** Comment Status **D** bucket
 Component not necessary
 SuggestedRemedy
 Remove component after module
 Proposed Response Response Status **W**
 PROPOSED REJECT.
 The term "module component" refers roughly to the transceiver device on the module. Note that "module" is used as a label at the top of the diagram to include the module PCB traces as well as the module component. This is consistent with labelling in Figure 120G-2/3/4.
 See comment #93.

Cl **120G** SC **120G.3.4.1.1** P **231** L **11** # **10061**
 Dudek, Mike Marvell
 Comment Type **T** Comment Status **D** bucket
 [Comment resubmitted from Draft 1.0. Subcl. 120G.3.4.1.1 - Pg 224 - In 12]
 The sections referenced for measuring Eye height and VEC don't have the correct reference receiver and section 4.2 has more details about how to measure these.
 SuggestedRemedy
 Change "Eye height and VEC are then measured at TP1a based on the measurement methodology given in 120E.4.2 and vertical eye closure is measured according to 120E.4.3." to Eye height and VEC are then measured at TP1a as described in 120G.4.2 "
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl **120G** SC **120G.4.2** P **232** L **38** # **13**
 Hidaka, Yasuo Credo Semiconductor
 Comment Type **T** Comment Status **D** bucket
 It is written as "associated parameters in Table 120G-9" as if the receiver noise filter had plural parameters. However, the receiver noise filter H_r(f) defined by equation (93A-20) has a single parameter f_r. A reference by a singular noun with the parameter symbol f_r is recommended for clarification.
 SuggestedRemedy
 Change "associated parameters in Table 120G-9" to "associated parameter f_r in Table 120G-9".
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl **135A** SC **135A.2** P **238** L **12** # **29**
 Slavick, Jeff Broadcom
 Comment Type **E** Comment Status **D** bucket
 MMD 9 looks like it might be bold while MMD8 and MMD1 are not
 SuggestedRemedy
 Fix the font for MMD 9
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

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Cl 152 SC 152 P110 L1 # 50
 Brown, Matt Huawei Technologies Canada
 Comment Type E Comment Status D bucket
 Clause 152 was updated in 802.3ct Draft 1.2 such that the Inverse FEC is generic and no amendments are required.
 SuggestedRemedy
 Delete Clause 152.
 Proposed Response Response Status W
 PROPOSED REJECT.

Cl 161 SC 161.5.4.3 P122 L122 # 89
 Nicholl, Shawn Xilinx
 Comment Type TR Comment Status D bucket
 Figure 161-6 incorrectly contains "pcs_enable_skew" in the DESKEW state.
 SuggestedRemedy
 Propose to update the DESKEW state of Figure 161-6 to change "pcs_enable_skew" to "fec_enable_deskew".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 161 SC 161.5.2.6 P114 L7 # 24
 Slavick, Jeff Broadcom
 Comment Type E Comment Status D bucket
 Missing coma after the x <= 3
 SuggestedRemedy
 Add the coma
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 162 SC 162.9.3.1.5 P150 L33 # 27
 Slavick, Jeff Broadcom
 Comment Type ER Comment Status D bucket
 There are 3 taps being set to zero now, however both refers to just 2.
 SuggestedRemedy
 Delete the "both" after c(-1)
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 161 SC 161.5.2.6 P115 L39 # 88
 Nicholl, Shawn Xilinx
 Comment Type TR Comment Status D bucket
 Figure 161-4 contains the text "am_mapped" while the term "am_txmapped" is used throughout the sub-clause.
 SuggestedRemedy
 Propose to update Figure 161-4 to change "am_mapped" to "am_txmapped" in two locations.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 162 SC 162.9.3.1.5 P150 L34 # 51
 Brown, Matt Huawei Technologies Canada
 Comment Type E Comment Status D bucket
 There are 3 taps so "both" should be deleted.
 SuggestedRemedy
 Change "both set to zero" to "set to zero".
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Resolve per comment #27.

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Cl 162 SC 162.9.3.1.5 P 150 L 43 # 26
 Slavick, Jeff Broadcom
 Comment Type E Comment Status D bucket
 For testing the range of c(1) and c(-1) you lump that both c(0) and the tap are at "their" minimum values, but with c(-3) you use the form used for c(-2) where c(0) is at it's minium and c(-2) is at it's minimum.
 SuggestedRemedy
 change "With c(-2), c(-1) and c(1) set to zero, c(0) having received sufficient "decrement" requests so that it is at its minimum value, and c(-3) having received sufficient "decrement" requests so that it is at its minimum value, c(-3) shall be less than or equal to -0.06." to be
 "With c(-2), c(-1) and c(1) set to zero and both c(0) and c(-3) having received sufficient "decrement" requests so that they are at their respective minimum values, c(-3) shall be less than or equal to -0.06."
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 162 SC 162.9.3.1.5 P 150 L 47 # 52
 Brown, Matt Huawei Technologies Canada
 Comment Type E Comment Status D bucket
 Unnecessary comma. Not needed to separate two distinct phrases.
 SuggestedRemedy
 Change "162.8.11, or by" to "162.8.11 or by".
 Proposed Response Response Status Z
 REJECT.
 This comment was WITHDRAWN by the commenter.

Cl 162 SC 162.9.4.3 P 153 L 28 # 53
 Brown, Matt Huawei Technologies Canada
 Comment Type E Comment Status D bucket
 Editor's note has expired.
 SuggestedRemedy
 Delete editor's note.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 162 SC 162.9.4.3.3 P 154 L 1 # 9
 Marris, Arthur Cadence Design Systems
 Comment Type T Comment Status D bucket
 Define the acronyms SCHS, CTSP, HOSP, CASP
 SuggestedRemedy
 Explain these acronyms here or in 1.5
 Proposed Response Response Status W
 PROPOSED REJECT.
 The referenced terms are parts of variable names and thus do not require formal definitions in 1.5.
 SCHS is defined in item a) on p. 154.
 S(HOSP) is defined on p.160, line 48.
 S(CASP) is defined on p. 161, line 6.
 S(CTSP) is defined on p. 153, line 2.

Cl 162 SC 162.11.7 P 158 L 38 # 54
 Brown, Matt Huawei Technologies Canada
 Comment Type E Comment Status D bucket
 Editor's note is no longer required.
 SuggestedRemedy
 Delete editor's note.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 162C SC 162C.2.6 P 262 L 15 # 86
 Kocsis, Sam Amphenol
 Comment Type ER Comment Status D bucket
 Figure 162C-11 missing image
 SuggestedRemedy
 Include "plug" image referenced in kocsis_3ck_adhoc_01_030420
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 162C SC 162C.2.6 P 262 L 29 # 85
 Kocsis, Sam Amphenol
 Comment Type ER Comment Status D bucket
 Figure 162C-12 description says "OSFP"
 SuggestedRemedy
 Replace "OSFP" with "DSFP"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 162C SC 162C.2.6 P 262 L 29 # 87
 Kocsis, Sam Amphenol
 Comment Type ER Comment Status D bucket
 Figure 162C-12 missing image
 SuggestedRemedy
 Include "receptacle" image referenced in kocsis_3ck_adhoc_01_030420
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 163 SC 163.7 P 173 L 54 # 10
 Marris, Arthur Cadence Design Systems
 Comment Type E Comment Status D bucket
 Make 162.7 a proper cross reference
 SuggestedRemedy
 Convert 162.7 to a cross reference
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 163 SC 163.9.1.2 P 176 L 53 # 14
 Sun, Junqing Credo Semiconductor
 Comment Type TR Comment Status D bucket
 0.01dB is found to be a typo.
 SuggestedRemedy
 Change 0.01dB to 0.1dB as in clause 93.8.1.1.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 163 SC 163.9.2.2 P 179 L 22 # 15
 Sun, Junqing Credo Semiconductor
 Comment Type TR Comment Status D bucket
 0.01dB is found to be a typo.
 SuggestedRemedy
 Change 0.01dB to 0.1dB as in clause 93.8.2.1.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 163 SC 163.9.2.3 P 179 L 34 # 79
 Healey, Adam Broadcom Inc.
 Comment Type T Comment Status D bucket
 The receiver interference tolerance procedure defined in 120F.3.2.3 includes guidance on the output return loss of the test setup (item b). This guidance does not appear to be present in this description of a similar test procedure for n00GBASE-KRn.
 SuggestedRemedy
 Add an item stating "The return loss of the test setup in Figure 93C-4 measured at TP5 replica towards TPt meets the requirements of Equation (163-2)."
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 163 SC 163.13.4.2 P 188 L 26 # 28
 Slavick, Jeff Broadcom
 Comment Type TR Comment Status D bucket
 References in 162 go to 136 when possible
 SuggestedRemedy
 Change:
 PC3 to refer to 136.8.11.1.3
 PC5 to refer to 136.8.11.3.3
 PC6 to refer to 136.8.11.4.1
 PC7 to refer to 136.8.11.6
 PC8 to refer to 136.8.11.7.5
 PC9 to refer to 136.8.11.7.5
 Proposed Response Response Status W
 PROPOSED ACCEPT.