

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

Cl 30 SC 30.5.1.1.25 P444 L 48 # 1 [REDACTED]
 Anslow, Pete Ciena
 Comment Type E Comment Status D
 In the text added by P802.3bq:
 "...this attribute can be derived from to the LP fast retrain count register ..."
 "from to the" should be "from the"
 SuggestedRemedy
 Change: "from to the" to: "from the"
 Proposed Response Response Status O

Cl 45 SC 45.2.7.13.6 P323 L 15 # 4 [REDACTED]
 Anslow, Pete Ciena
 Comment Type T Comment Status D
 This text introduced by 802.3bq says "If the device supports EEE operation for 40GBASE-T as defined in 113.6.1, ..." but 113.6.1 is "Support for Auto-Negotiation". 113.1.3.3 seems to contain more information about EEE than 113.6.1 does.
 SuggestedRemedy
 Change "113.6.1" to "113.1.3.3"
 Proposed Response Response Status O

Cl 45 SC 45.2.3.15.3 P235 L 19 # 2 [REDACTED]
 Anslow, Pete Ciena
 Comment Type T Comment Status D
 This says "... defined by counter lfer_count in 126.3.7.2 in 2.5GBASE-T and 5GBASE-T, 55.3.6.2 for 10GBASE-T, ..." but "lfer_count" is not defined in 55.3.6.2, it is defined in 55.3.7.2
 SuggestedRemedy
 Change "55.3.6.2" to "55.3.7.2"
 Proposed Response Response Status O

Cl 45 SC 45.2.7.13.15 P324 L 8 # 5 [REDACTED]
 Anslow, Pete Ciena
 Comment Type T Comment Status D
 This text introduced by 802.3bq says "If the device supports EEE operation for 25GBASE-T as defined in 113.6.1, ..." but 113.6.1 is "Support for Auto-Negotiation". 113.1.3.3 seems to contain more information about EEE than 113.6.1 does.
 SuggestedRemedy
 Change "113.6.1" to "113.1.3.3"
 Proposed Response Response Status O

Cl 45 SC 45.2.3.15.4 P235 L 28 # 3 [REDACTED]
 Anslow, Pete Ciena
 Comment Type T Comment Status D
 This says "... defined by counter errored_block_count in 126.3.7.2 in 2.5GBASE-T and 5GBASE-T, 55.3.6.2 for 10GBASE-T, ..." but "errored_block_count" is not defined in 55.3.6.2, it is defined in 55.3.7.2
 SuggestedRemedy
 Change "55.3.6.2" to "55.3.7.2"
 Proposed Response Response Status O

Cl 81 SC 81.5.3.7 P132 L 8 # 6 [REDACTED]
 Anslow, Pete Ciena
 Comment Type T Comment Status D
 For item LINT2 "CARRIER_STATUS response to Link Interruption" (as introduced by 802.3bq) the subclause is "81.4.2" but this does not mention "Link Interruption". However, 81.1.7.3 does contain discussion of CARRIER_STATUS in relation to Link Interruption.
 SuggestedRemedy
 Change "81.4.2" to "81.1.7.3"
 Proposed Response Response Status O

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CI 45 SC 45.2.1.143.1 P179 L 34 # 7
 Anslow, Pete Ciena
 Comment Type E Comment Status D
 This text introduced by 802.3bn says "and their reflective registers" which should be "and their respective registers".
 Same issue in 45.2.1.143.5
 SuggestedRemedy
 Change "reflective" to "respective" here and in 45.2.1.143.5
 Proposed Response Response Status O

CI 102 SC 102.4.1.8 P449 L 29 # 10
 Anslow, Pete Ciena
 Comment Type E Comment Status D
 In this text (LinkUpRdy) introduced by 802.3bn "or as describe in 102.4.4" should be "or as described in 102.4.4"
 SuggestedRemedy
 Change "or as describe in 102.4.4" to "or as described in 102.4.4"
 Proposed Response Response Status O

CI 45 SC 45.2.1.143.3 P179 L 47 # 8
 Anslow, Pete Ciena
 Comment Type T Comment Status D
 This text introduced by 802.3bn says "the variable US_CID defined in 102.2.3.1.1" . While "US_CID" is mentioned in 102.2.3.1.1, it is defined in 102.2.7.3.
 SuggestedRemedy
 Change "102.2.3.1.1" to "102.2.7.3"
 Proposed Response Response Status O

CI 103 SC 103.4.4.4 P518 L 10 # 11
 Anslow, Pete Ciena
 Comment Type T Comment Status D
 In item MP17 introduced by 802.3bn the cross-reference (marked as external to the 802.3bn amendment) to "74.2.2.4" does not exist. When integrating the amendment into the 802.3 revision, the correct target for this cross-reference was not clear, so it was left in forest green font. Also, "priority" should be "priority".
 SuggestedRemedy
 Change "74.2.2.4" to "77.2.2.4"
 In Value/Comment change: "MAC Control interface has priority over other clients" to "MAC Control interface has priority over other clients (see definition of SelectFrame)"
 Proposed Response Response Status O

CI 101 SC 101.3.2.2 P319 L 50 # 9
 Anslow, Pete Ciena
 Comment Type T Comment Status D
 This text introduced by 802.3bn says "The EPoC PHY utilizes a 64B/66B Encoder based on that described in 49.2.5 ..." but 49.2.5 is "Transmit process" and does not describe the 64B/66B encoder, which is described in 49.2.4 "64B/66B transmission code"
 SuggestedRemedy
 Change "49.2.5" to "49.2.4"
 Proposed Response Response Status O

CI 73 SC 73.6.4 P516 L 12 # 12
 Anslow, Pete Ciena
 Comment Type T Comment Status D
 73.6.4 "Technology Ability Field" says: "Technology Ability Field (A[24:0]) is a 25-bit wide field containing ..." but the 802.3by amendment changed this field to be A[22:0] without correcting this text.
 SuggestedRemedy
 Change: "Technology Ability Field (A[24:0]) is a 25-bit wide field containing ..." to: "Technology Ability Field (A[22:0]) is a 23-bit wide field containing ..."
 Proposed Response Response Status O

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Cl 73 SC **73.6.5** P**517** L**3** # **13**
 Anslow, Pete Ciena
Comment Type T **Comment Status** D
 The 802.3by amendment changed "FEC (F0:F1) is encoded in bits D46:D47 ..." to "FEC (F2:F3:F0:F1) is encoded in bits D44:D47 ...". The ":" separator was ok for "FEC (F0:F1)" but is not appropriate for "FEC (F2:F3:F0:F1)"
SuggestedRemedy
 Change: "FEC (F2:F3:F0:F1)" to: "FEC (F2, F3, F0, F1)"
Proposed Response Response Status **O**

Cl 30 SC **30.9.1.1.14** P**481** L**33** # **14**
 Anslow, Pete Ciena
Comment Type E **Comment Status** D
 This includes "... a maximum increment rate of 100000 per second ...", which is inconsistent with the rest of the draft, which uses a space as a thousands separator for numbers in text greater than 10000
SuggestedRemedy
 Change "100000" to "100 000"
Proposed Response Response Status **O**

Cl 31B SC **31B.4.6** P**761** L**21** # **15**
 Anslow, Pete Ciena
Comment Type E **Comment Status** D
 The format of PICS items TIM2 through TIM11 is unusual and therefore confusing.
SuggestedRemedy
 Give each item TIM2 through TIM11 its own row in the table with a Subclause entry of 31B.3.7.
 Remove the subrow: "Delay from receiving valid PAUSE command, with nonzero value for pause_time, to cessation of transmission", "31B.3.7", "Measured as described".
 Apply a footnote to the Value/Comment entry for each item TIM2 through TIM11 with same content as deleted feature: "Delay from receiving valid PAUSE command, with nonzero value for pause_time, to cessation of transmission."
 In the support column for TIM2 through TIM11, change "M: Yes []" to "Yes []"
Proposed Response Response Status **O**

Cl 45 SC **45.2.7.11.1** P**317** L**20** # **16**
 Anslow, Pete Ciena
Comment Type E **Comment Status** D
 "in contained in 55.6.2" should be "is contained in 55.6.2"
SuggestedRemedy
 Change "in contained in 55.6.2" to "is contained in 55.6.2"
Proposed Response Response Status **O**

Cl 45 SC **45.2.1.84** P**131** L**2** # **17**
 Anslow, Pete Ciena
Comment Type E **Comment Status** D
 There is no text in 45.2.1.84 that refers to Table 45-64
SuggestedRemedy
 Add "The assignment of bits in the MultiGBASE-T fast retrain status and control register is shown in Table 45-64."
Proposed Response Response Status **O**

Cl 45 SC **45.2.3** P**216** L**52** # **18**
 Anslow, Pete Ciena
Comment Type E **Comment Status** D
 In Table 45-168, the names for registers 3.42 and 3.43 do not match the names in 45.2.3.18 and 45.2.3.19
SuggestedRemedy
 In Table 45-168, change "test pattern" to "test-pattern" in the rows for 3.42 and 3.43
Proposed Response Response Status **O**

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CI 45 SC 45.2.3.25.12 P 248 L 9 # 19
 Anslow, Pete Ciena
 Comment Type T Comment Status D
 The bit numbers and lane numbers are incorrect in 45.2.3.25.12
 SuggestedRemedy
 Change "bit 3.53.8" to "bit 3.53.0" in 2 instances
 Change "lane 0" to "lane 8" in 2 instances
 Proposed Response Response Status O

CI 92 SC 92.10.5 P 435 L 48 # 22
 Anslow, Pete Ciena
 Comment Type E Comment Status D
 "." missing at the end of the first sentence of 92.10.5
 SuggestedRemedy
 Add the "."
 Proposed Response Response Status O

CI 113 SC 113.11 P 800 L 10 # 20
 Anslow, Pete Ciena
 Comment Type E Comment Status D
 The second sentence of the note is: "For 25GBASE-T and 40GBASE-T, Equation (105-1) specifies the calculation of bit time per meter of electrical cable for 25GBASE-T." which is somewhat garbled.
 SuggestedRemedy
 Change to "Equation (105-1) specifies the calculation of bit time per meter of electrical cable for 25GBASE-T."
 Proposed Response Response Status O

CI 00 SC 0 P L # 23
 Anslow, Pete Ciena
 Comment Type E Comment Status D
http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html has "auto-negotiation" but there are instances of "autonegotiation" in:
 30.3.3.6 (2 instances)
 30.7.1
 45.2.7.16
 SuggestedRemedy
 Change all instances of "autonegotiation" to "Auto-Negotiation"
 Proposed Response Response Status O

CI 92 SC 92.8.3.8.2 P 427 L 1 # 21
 Anslow, Pete Ciena
 Comment Type E Comment Status D
 Equations 92-12 to 92-16, 92-18, and 92-19 use a multiply sign which is not in accordance with the IEEE-SA Standards Style Manual.
 SuggestedRemedy
 Change all instances to a multiply sign
 Proposed Response Response Status O

CI 00 SC 0 P L # 24
 Anslow, Pete Ciena
 Comment Type E Comment Status D
 Gray-mapped, Gray mapper and Gray-coded should all use a capital "G" because the name comes from Frank Gray
 SuggestedRemedy
 Change "gray" to "Gray" in 94.3.10.8 (2 instances) and Figure 126-6.
 Proposed Response Response Status O

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CI 45 SC 45.2.1 P 58 L 43 # 25
 Anslow, Pete Ciena

Comment Type E Comment Status D

The Register name column in Table 45-3 should not include "register" or "registers" at the end of the register names.

SuggestedRemedy

Remove "registers" from the rows for 1.162 through 1.164 and 1.165, 1.166
 Remove "register" from the rows for 1.200, 1.201, and 1.206

Proposed Response Response Status O

CI 82 SC 82.3.1 P 162 L 21 # 26
 Anslow, Pete Ciena

Comment Type E Comment Status D

The title of Table 82-11 "MDIO/PMD status variable mapping" should be "MDIO/PCS status variable mapping"

SuggestedRemedy

Change "MDIO/PMD" to "MDIO/PCS"

Proposed Response Response Status O

CI 83 SC 83.5.10 P 192 L 18 # 27
 Anslow, Pete Ciena

Comment Type E Comment Status D

"Ln9_PRBS_Rx_test_error_counter" should be "Ln9_PRBS_Rx_test_err_counter"

SuggestedRemedy

Change "Ln9_PRBS_Rx_test_error_counter" to "Ln9_PRBS_Rx_test_err_counter"

Proposed Response Response Status O

CI 104 SC 104.4.4.1 P 529 L 27 # 28
 Stewart, Heath Analog Devices

Comment Type T Comment Status D

The 200nF maximum limit on a PSE's Cout is limiting. The current maximum limit in some common circuit configurations can cause stability issues. The attached analysis demonstrates that the proposed change does not create the potential for one PSE to detect another PSE as a valid PD. In addition, since no other detection parameters are affected, there is no impact on interoperability of existing PoDL networks.

This has been submitted as Maintenance Request 1308 and has been put forth as a comment to expedite the change process.

There is no impact on existing systems. Inclusion of this change as a comment will allow vendors the ability to take advantage of specification relaxation before any devices are out in the market.

See analysis at http://www.ieee802.org/3/maint/requests/maint_1308.pdf

SuggestedRemedy

Change Table 104-3 Item 5 Max limit from 200 nF to 2.64 uF.

Proposed Response Response Status O

CI 82 SC 82.3.1 P 161 L 45 # 29
 Anslow, Pete Ciena

Comment Type E Comment Status D

The title of 82.3.1 "PMD MDIO function mapping" should be "PCS MDIO function mapping". Also, the last sentence of 82.3.1 (Page 162, line 1) "Mapping of MDIO status variables to PMD status variables is shown in Table 82-11." should be "Mapping of MDIO status variables to PCS status variables is shown in Table 82-11."

SuggestedRemedy

Change "PMD" to "PCS" in the title of 82.3.1 and in the last sentence of 82.3.1.

Proposed Response Response Status O

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CI 1 SC 1.1 P47 L35 # 30
 Umnov, Alexander Corning
 Comment Type E Comment Status D
 There is pages number mismatch. Contents list refers to page 54 as section 1.1, but it is page 47 in the current version. Other sections have similar mismatch
 SuggestedRemedy
 When final version is ready, update pages number in the contents
 Proposed Response Response Status O

CI 109 SC B.5.3.1 P223 L # 33
 Klempa, Michael UNH IOL
 Comment Type E Comment Status D
 TH11, TH12, and TH13 reference subclause 83E3.1 but should reference 109B.4.1 which references 83E3.1 but with differences in methodology
 SuggestedRemedy
 Change the subclause to 109B.4.1
 Proposed Response Response Status O

CI 110 SC 13.4.4 P170 L # 31
 Klempa, Michael UNH IOL
 Comment Type E Comment Status D
 RC6 Feature is "common-mode input return loss" but the subclause is 92.8.4.3 which defines "Differential to common-mode input return loss"
 SuggestedRemedy
 Change feature to "Differential to common-mode input return loss"
 Proposed Response Response Status W
 [CommentType not specified. Editor set CommentType to E.]

CI 25 SC 25.4.7 P227 L43 # 34
 McClellan, Brett Marvell
 Comment Type ER Comment Status D
 link parameters are specified in 25.4.9 not 25.4.8
 SuggestedRemedy
 change "25.4.8" to "25.4.9"
 Proposed Response Response Status O

CI 92 SC 14.4 P449 L # 32
 Klempa, Michael UNH IOL
 Comment Type E Comment Status D
 The text in 92.8.3.7 states "SNDR shall be greater than 26 dB regardless of equalizer setting" but in the PICS "regardless of equalizer setting" is noticeably absent. This is inconsistent with other transmitter tests such as EOJ, EBUJ and ETUJ where they define "regardless of equalizer setting" in the text as well as the PICS.
 SuggestedRemedy
 Change the PICS to state "Greater than or equal to 26 dB regardless of transmit equalization setting"
 Proposed Response Response Status O

CI 126 SC 126.8.2.2 P124 L42 # 35
 McClellan, Brett Marvell
 Comment Type ER Comment Status D
 error in the editor's note, "40" should be "250"
 SuggestedRemedy
 change "40" to "250"
 Proposed Response Response Status O

CI 97 SC 97.3.2.2.5 P118 L16 # 36
 McClellan, Brett Marvell
 Comment Type ER Comment Status D
 typo in the figure text "80B/ 80B/81B"
 SuggestedRemedy
 change "80B/ 80B/81B" to "80B/81B"
 Proposed Response Response Status O

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CI 82 SC 82.2.3.6 P143 L 38 # 37
 Trowbridge, Steve Nokia

Comment Type T Comment Status D

Since the signal ordered set is reserved for INCITS T11 Fibre Channel use, it is presumably an invalid block if received on an Ethernet PHY (and there is nothing in the standard that would tell you what to do with this block if it were valid). However, the wording of 82.2.3.5 (c) does not label it as an invalid block since it is a control code that is listed in Table 82-1

SuggestedRemedy

Change footnote (a) of Table 82-1 to read "INCITS T11 Fibre Channel uses O code 0x5C for the Signal ordered set. OIF uses O code 0x5 for the FlexE [B58] ordered set". Remove the last row of Table 82-1 and footnote b.

Proposed Response Response Status O

CI 30 SC 30.1.1 P341 L 6 # 38
 Hoglund, David Johnson Controls

Comment Type E Comment Status D

No space between sentences

SuggestedRemedy

"subsequent additions to this standard. Implementations"
 This might be just a defect of letter placement during PDF creation.
 The file is SECTION TWO.

Proposed Response Response Status O

CI 30 SC 30.2.2.2.1 P347 L 24 # 39
 Hoglund, David Johnson Controls

Comment Type E Comment Status D

Unclosed appositive in a complex sentence reduces readability

SuggestedRemedy

"For DTE MACs, with regard to reception-related error statistics, a hierarchical order has been established ..."
 The file is SECTION TWO.
 There is also an intrusive solution: "With regard to reception-related error statistics, a hierarchical order for DTE MACs has been established such that when multiple error statuses can be associated with one frame, only one status is returned to the LLC."

Proposed Response Response Status O

CI 45 SC 45.2 P53 L 40 # 40
 Hoglund, David Johnson Controls

Comment Type E Comment Status D

Subject-verb agreement

SuggestedRemedy

"the contents of both registers are cleared"
 The file is SECTION FOUR.

Proposed Response Response Status O

CI 78 SC 78.1 P32 L 11 # 41
 Hoglund, David Johnson Controls

Comment Type E Comment Status D

Extra space: "in to" instead of "into" at line break between lines 11 and 12

SuggestedRemedy

"The transition time into and out of the lower level..."
 The file is SECTION SIX.

Proposed Response Response Status O

CI 98 SC 98.2.4.3 P215 L 1 # 42
 Hoglund, David Johnson Controls

Comment Type E Comment Status D

Not clear if the reference is a word or defined entity, but context suggests that it an entity that should be capitalized

SuggestedRemedy

"Next Page transmission ends when both ends of a link segment set their Next Page bits to logical zero..."

Proposed Response Response Status O

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Cl 1 SC 1.3 P64 L 14 # 43
 Lusted, Kent Intel
 Comment Type T Comment Status D
 reference to SFF-8436 is out of date.
 SuggestedRemedy
 Consider updating reference to Rev 4.8, October 31, 2013
 Proposed Response Response Status O

Cl 1 SC 1.3 P16 L 14 # 44
 Lusted, Kent Intel
 Comment Type T Comment Status D
 reference to SFF-8642 is out of date.
 SuggestedRemedy
 Consider updating reference to Rev 3.2, January 26, 2017
 Proposed Response Response Status O

Cl 1 SC 1.3 P64 L 50 # 45
 Lusted, Kent Intel
 Comment Type T Comment Status D
 Footnote 22 references specifications available at <ftp://ftp.seagate.com/sff>. In 2016, SFF Committee leaders transitioned the organizational stewardship to SNIA, to operate under a special membership class named Technology Affiliate, while retaining the longstanding technical focus on specifications in a similar fashion as all SNIA TWGs do. see <https://www.snia.org/sff>
 SuggestedRemedy
 Consider updating the website link to <http://www.snia.org/sff/specifications>
 Proposed Response Response Status O

Cl 1 SC 1.3 P55 L 41 # 46
 Grow, Robert RMG Consulting
 Comment Type TR Comment Status D
 It looks like ANSI has changed a lot of document numbers. Most of the ANSI documents cannot be found as referenced in this subclause. An ANSI webstore search on ANSI/TIA does not produce any of the documents cited with that lead on the document number. Fibre Channel and FDDI documents cannot be located with the cited numbers.
 SuggestedRemedy
 Update to locatable documents, some detailed updates are included in additional comments.
 Proposed Response Response Status O

Cl 1 SC 1.3 P55 L 41 # 47
 Grow, Robert RMG Consulting
 Comment Type TR Comment Status D
 A search on "Trace Message Formats" only shows: ATIS-0300269.2006(R2011), Structure and Representation of Trace Message Formats for Information Exchange
 SuggestedRemedy
 Update to current revision, and resort per new document number.
 Proposed Response Response Status O

Cl 1 SC 1.3 P55 L 44 # 48
 Grow, Robert RMG Consulting
 Comment Type TR Comment Status D
 A search on the document title finds: ATIS-0600417.2003(S2015), Spectrum Management for Loop Transmission Systems
 SuggestedRemedy
 Update to current revision, and resort per new document number.
 Proposed Response Response Status O

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CI 1 SC 1.3 P55 L46 # 49
 Grow, Robert RMG Consulting
 Comment Type **TR** Comment Status **D**
 A search produces the current document: ATIS-0600424.2004(S2015), Interface Between Networks and Customer Installation Very-high-bit-rate Digital Subscriber Lines (VDSL) Metallic Interface (DMT based)
 SuggestedRemedy
 Update to current revision, and resort per new document number.
 Proposed Response Response Status **O**

CI 1 SC 1.3 P56 L4 # 52
 Grow, Robert RMG Consulting
 Comment Type **TR** Comment Status **D**
 The document could not be found on the ANSI web store with multiple search attempts.
 SuggestedRemedy
 Get our incoming and outgoing TIA liaisons to provide recommendations for where to get the document, and if necessary, updated reference information for references in lines 4 to 21.
 Proposed Response Response Status **O**

CI 1 SC 1.3 P55 L49 # 50
 Grow, Robert RMG Consulting
 Comment Type **TR** Comment Status **D**
 A search produces: ATIS-0600601.1999(R2014), Integrated Services Digital Network (ISDN) û Basic Access Interface for Use on Metallic Loops for Application on the Network Side of the NT (Layer 1 Specification)
 SuggestedRemedy
 Update to current revision, and resort per new document number.
 Proposed Response Response Status **O**

CI 1 SC 1.3 P56 L7 # 53
 Grow, Robert RMG Consulting
 Comment Type **TR** Comment Status **D**
 Footnote 3 is possibly a cut and paste with incomplete editing error (ANSI in the introduction text, and astm in the URL).
 SuggestedRemedy
 Delete the footnote.
 Proposed Response Response Status **O**

CI 1 SC 1.3 P56 L1 # 51
 Grow, Robert RMG Consulting
 Comment Type **TR** Comment Status **D**
 A search produces: ATIS-0600605.1991(S2015), Integrated Services Digital Network (ISDN)ûBasic Access Interface for S and T Reference Points (Layer 1 Specification)
 SuggestedRemedy
 Update to current document number.
 Proposed Response Response Status **O**

CI 1 SC 1.3 P56 L23 # 54
 Grow, Robert RMG Consulting
 Comment Type **TR** Comment Status **D**
 An ANSI web store search produces: ANSI INCITS 230-1994 (R1999), Information Technology - Fibre Channel - Physical and Signaling Interface (FC-PH) (formerly ANSI X3.230-1994 (R1999)) (includes supplements)
 SuggestedRemedy
 Update to current document number.
 Proposed Response Response Status **O**

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Cl 1 SC 1.3 P 56 L 25 # 55
 Grow, Robert RMG Consulting
 Comment Type **TR** Comment Status **D**
 An ANSI web store search on TP-PMD produces: ANSI INCITS 263-1995 (S2010), Fibre Distributed Data Interface (FDDI) - Token Ring Twisted Pair Physical Layer Medium Dependent (TP-PMD) (formerly INCITS 263-1995 (R2005))
 SuggestedRemedy
 Update to the stabilized document with new number.
 Proposed Response Response Status **O**

Cl 1 SC 1.3 P 56 L 43 # 58
 Grow, Robert RMG Consulting
 Comment Type **T** Comment Status **D**
 This revision does not appear to be available on the ETSI website as an historical document.
 SuggestedRemedy
 Update to ETSI TS 101 270-1 V1.4.1 (2005-10), or we need to update the footnote for a place to get historical documents.
 Proposed Response Response Status **O**

Cl 1 SC 1.3 P 56 L 30 # 56
 Grow, Robert RMG Consulting
 Comment Type **T** Comment Status **D**
 Could not verify document name without having a login for the ATIS Document Center. (Is it really capitalized NETWORK?) Either ATIS is inconsistent (see line 33) or we are.
 SuggestedRemedy
 Verify document title is capitalized (NETWORK versus Network to produce acronym SONET), and that inconsistency with line 33 is accurate.
 Proposed Response Response Status **O**

Cl 1 SC 1.3 P 57 L 12 # 59
 Grow, Robert RMG Consulting
 Comment Type **TR** Comment Status **D**
 The cited document has been revised (more than once). The title of the historical version (on the IEC webstore) does not agree with this normative reference. We continue to cite this standard in recent clauses. Note deprecated clause 23 includes year citations. Clause 40 cites the 1990 revision. Clause 55 cites 1996 as does clause 113 and 126.
 SuggestedRemedy
 Preferred solution is to update to an undated reference with current title (IEC 60603-7:2008+AMD1:2011, Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors). Alternate, update reference and referencing clauses to current version. Another less preferable alternative would be to add additional references for other revisions as has been done for the following fiber optic standards (this would require paying attention to the undated citations in various clauses).
 Proposed Response Response Status **O**

Cl 1 SC 1.3 P 56 L 38 # 57
 Grow, Robert RMG Consulting
 Comment Type **T** Comment Status **D**
 CISPR 22 has been withdrawn (2008 revision), IEC webstore indicates it is replaced by CISPR-32. This probably isn't a problem for the 8.7.3.2 and 9.9.7.2.1 citations because both of those clauses are deprecated but is an issue for 15.6.2 citation.
 SuggestedRemedy
 Consider deprecation of clause 15 (10BASE-F).
 Proposed Response Response Status **O**

Cl 1 SC 1.3 P 60 L 19 # 60
 Grow, Robert RMG Consulting
 Comment Type **T** Comment Status **D**
 There is an inconsistency with citation of CISPR 22 and CISPR 25. Here, the number includes IEC before the CISPR, but the IEC web store does not include IEC in its title.
 SuggestedRemedy
 Delete IEC and resort document location.
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Cl 1 SC 1.5 P98 L 18 # 61
 Grow, Robert RMG Consulting
 Comment Type E Comment Status D
 Alphanumeric order violation
 SuggestedRemedy
 Move 2B before 2-PAM.
 Proposed Response Response Status O

Cl 1 SC 1.5 P99 L 25 # 62
 Grow, Robert RMG Consulting
 Comment Type E Comment Status D
 Alphanumeric order violation
 SuggestedRemedy
 Move DGD before DIC.
 Proposed Response Response Status O

Cl 1 SC 1.5 P102 L 31 # 63
 Grow, Robert RMG Consulting
 Comment Type E Comment Status D
 Alphanumeric order violation
 SuggestedRemedy
 Move RMS before ROFL.
 Proposed Response Response Status O

Cl 97 SC 97.9.1 P189 L 10 # 64
 Grow, Robert RMG Consulting
 Comment Type ER Comment Status D
 The maintenance request changes are incomplete. With the change to the paragraph above the Editor's Note, Clause 96, 97, and 115 have the same identical paragraph --that's good. Unfortunately, the various PICS items derived from the shall in that paragraph are inconsistent between clauses.

Clause 96 has a major option AUTO, and in 96.11.4.9 ES2 is also optional. This seems correct.

Clause 97 has no major option for its 97.11.13 ES1, which has a Status of M. This needs to be corrected!

Clause 115 has a major option AE, with 115.14.15 but Status being mandatory, with a Yes/NA in the Support.

Clause 104 (PoDL) does not have the same paragraph, but in the description for applicability of ISO 26262, uses a may and therefore there is no associated PICS item.

SuggestedRemedy
 The minimal change would be to change 97.11.13 Status to O and Support to Yes, N/A.

For consistency, 115.14.15, E3, Status should be changed to O.

Consider change of text in subclause 104.8.1 to read similar to the paragraph in the three PHY clauses with a shall when required by the application, with the addition of a related PICS item.

Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

CI 78 SC 78.1.4 P38 L 6 # 65
 Grow, Robert RMG Consulting

Comment Type ER Comment Status D

Tables 78-1, 78-2 and 78-4 are growing large enough to become a problem finding relevant items. When amendments 10 through 12 are merged, the problems will become more obvious. We need a consistent sort order, and as operational data rates multiply, interfaces are no longer linked to only one specific speed. This makes a speed ordered list which has been the approach to date problematic. Also, within a speed, the number of port types is increasing resulting in longer blocks of the table that are not consistently ordered within a speed.

SuggestedRemedy

Sort all three tables using the rules for 1.4 sort order.

Proposed Response Response Status O

CI 78 SC 78.2 P40 L 35 # 66
 Grow, Robert RMG Consulting

Comment Type ER Comment Status D

Amendments have not been consistent in how timing parameters are entered. At line 35, there are two port types sharing values in the same row, yet in the next row, two additional port types using the same values are in separate rows. At lines 21, 41 and 46, individual port types are listed, even when adjacent port types have identical values. If this table is sorted in 1.4 sort order, then values should be listed for each port type, and not shared in a row.

SuggestedRemedy

Split rows with multiple port types in the first column into separate rows.

Proposed Response Response Status O

CI 78 SC 78.5 P55 L 48 # 67
 Grow, Robert RMG Consulting

Comment Type ER Comment Status D

Like Table 78-2, this table is inconsistent in how different port types with identical values are displayed. This table adds the complication that identical values are correlated with the second column rather than the first column. (Compare rows at 31 with the row at line 48.)

While this listing is more compact in space used, as the table grows, finding port types when not sorted by name will become increasingly difficult.

SuggestedRemedy

Where multiple cases exist for a port type, the column 1 should only list one port type, in a merged cell, but each case having its own row for a given port type as is done at line 31.

Proposed Response Response Status O

CI 73 SC 73.6.4 P516 L 41 # 68
 Marris, Arthur Cadence Design Syste

Comment Type TR Comment Status D

Implement maintenance request 1283

SuggestedRemedy

Delete 3rd paragraph of 73.6.4 and replace with the following note:

NOTE– Previous editions of this standard prohibited advertisement of PHYs that support operation over electrical backplanes with PHYs that support operation over copper cable assemblies.

Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

Cl 91 SC 91.5.4.2 P 393 L 12 # 69
 Marris, Arthur Cadence Design Syste

Comment Type TR Comment Status D

Improve implementation of maintenance request 1299. Use 802.3cd draft 2.1 as a reference in doing this.

SuggestedRemedy

- 1) Consider moving amap_bad_count definition to 91.5.4.2.3 Counters
- 2) Add fec_optional_states variable to 91.5.4.2.1 Variables
 Insert fec_optional_states definition after fec_lane as follows:
 fec_optional_states
 Boolean variable that is true if the optional states are implemented and false otherwise.
- 3) Add "FEC optional states supported" to Table 91-3—MDIO/RS-FEC status variable mapping
- 4) Add 91.6.6 renumbering subsequent clauses:
 91.6.6 FEC_optional_states
 This variable is set to true when the optional states in the FEC synchronization state diagram are implemented. This variable is mapped to the bit defined in 45.2.1.102 (1.201.7).
- 5) Add new bit to 45.2.1.107 RS-FEC status register (Register 1.201)

45.2.1.107 FEC optional states supported (1.201.7)
 When read as a one, bit 1.201.7 indicates that the RS-FEC described in Clause 91 implements the optional states in Figure 91-8. When read as a zero, bit 1.201.7 indicates that the optional states are not implemented.

Proposed Response Response Status O

Cl 69 SC 69.3 P 433 L 15 # 70
 Anslow, Pete Ciena

Comment Type E Comment Status D

There are two tables numbered Table 69-3

SuggestedRemedy

Remove the "n=3" override from the second Table 69-3. Remove the "n=6" override from the heading for 69.2.6. Correct the autonumber format for all level 2 headings in Clause 69 to be "H:<n>.<n+> < =0>< =0>< >> <> >"

Proposed Response Response Status O

Cl 1 SC 1.3 P 64 L 50 # 71
 Anslow, Pete Ciena

Comment Type E Comment Status D

The SFF Committee has transitioned its activities to become a SNIA (Storage Networking Industry Association) TA (Technology Affiliate) and the document repository at ftp://ftp.seagate.com/sff/ only contains pointers to the new storage location at www.snia.org/sff/specifications

SuggestedRemedy

Change footnote 22 from:
 "SFF specifications are available at ftp://ftp.seagate.com/sff." to:
 "SFF specifications are available from the Storage Networking Industry Association (http://www.snia.org/sff/specifications)."

Proposed Response Response Status O

Cl 119 SC 119.6 P 618 L 29 # 72
 Slavick, Jeff Broadcom Ltd

Comment Type T Comment Status D

The remote loopback ability bit for 25G points to the 40/100G extended ability register. But 25G has it's own extended ability register which is where this ability bit should reside.

SuggestedRemedy

In Table 45-20 define bit 15 to be 25G PMA Remote Loopback Ability
 Add: 45.2.1.17.1 25G PMA remote loopback ability (1.19.15)
 When read as a one, bit 1.19.15 indicates that the PMA is able to perform the remote loopback function.
 When read as a zero, bit 1.19.15 indicates that the PMA is not able to perform the remote loopback function.
 If a PMA is able to perform the remote loopback function, then it is controlled using the PMA remote loopback bit 1.0.1 (see 45.2.1.1.4).
 In Table 109-3 change the MDIO reference to 1.19.15

Proposed Response Response Status O

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Cl 91 SC 91.5.3.3 P387 L33 # 73
 Slavick, Jeff Broadcom Ltd

Comment Type E Comment Status D

In other clauses we will sub-heading optional features and 803.cd is doing this with the new degrade monitor feature. Currently the RS-FEC has 2 optional features.

SuggestedRemedy

Place the last 5 paragraphs of 91.5.3.3 under a heading of 91.5.3.3.2 Bypass Error Indication (optional)
 Move the paragraph starting with "The Reed-Solomon decoder indicates errors" to be the 3rd paragraph of 91.5.3.3
 Place the paragraph beginning with "The Reed-Solomon decoder may provide the option to perform error detection" and the NOTE under a new sub-heading 91.5.3.3.1 Bypass Error Correction (optional)
 Update the references in 91.6.1, 91.6.2, 91.6.3, 91.6.4, 91.6.5, 91.7.3, 91.7.4.2, 93.1, 93.8.2.3, 45.2.1.106.2, 45.2.1.106.3, 45.2.1.107.7, 45.2.1.107.8, 45.2.1.107.9

Proposed Response Response Status O

Cl 108 SC 108.5.3.2 P594 L1 # 74
 Slavick, Jeff Broadcom Ltd

Comment Type E Comment Status D

If the modification to Clause 91 are done to make the optional features of the rsfec decoder sub-headings then do the same edit to keep things common across clauses. Currently the RS-FEC has 2 optional features.

SuggestedRemedy

Place the last 4 paragraphs and NOTE3 of 108.5.3.2 under a heading of 108.5.3.2.2 Bypass Error Indication (optional)
 Move the paragraph starting with "The Reed-Solomon decoder indicates errors" and NOTE2 to be the 3rd paragraph of 108.5.3.2
 Place the paragraph beginning with "The Reed-Solomon decoder may provide the option to perform error detection" and the NOTE under a new sub-heading 108.5.3.2.1 Bypass Error Correction (optional)
 Update the references in 108.6.1, 108.6.2, 108.6.4, 108.6.5, 108.6.6, 108.7.3, 108.7.4.2, 110.1, 111.1, 45.2.1.106.2, 45.2.1.106.3, 45.2.1.107.7, 45.2.1.107.8, 45.2.1.107.9

Proposed Response Response Status O

Cl 55 SC 55.3.6.2.2 P724 L50 # 75
 Zimmerman, George CME Consulting, Inc.

Comment Type T Comment Status D

"where the lfer_cnt exceeds 16"
 lfer_cnt is defined as only counting up to a maximum of 16. A similar comment was made and accepted on 802.3bq and 802.3bz (802.3bq initial sponsor ballot comment i-80)

SuggestedRemedy

change "exceeds" to "reaches"

Proposed Response Response Status O

Cl 55 SC 55.1.3 P689 L41 # 76
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D

PMA_LINK.indication (link_status) is not shown connecting the PMA to the PCS in Figure 55-4 '10GBASE-T service interfaces', is not listed in subclause 55.2.2 'PMA service interface', and is not used in the PCS state diagram on referenced in the PCS related text, but is shown in Figure 55-3. (comment 110, 802.3bq 3rd WG recirc)

SuggestedRemedy

Suggest that:
 [1] Remove the 'link_status' signal from the connection above the 'LINK MONITOR' block to the 'PCS TRANSMIT & TRANSMIT CONTROL' block in figure 55-3 'Function block diagram'.
 [2] Remove the 'link_status' signal from figure 55-5 'PCS reference diagram'.
 [3] Remove the 'link_status' signal from the connection above the 'LINK MONITOR' block to the 'PMA SERVICE INTERFACE' in figure 55-21 'PMA reference diagram' (keep connection to TDI)
 [4] Update the variable definition for 'link_status' in subclause 55.4.5.1 'State diagram variables' to read 'The link_status parameter set by PMA Link Monitor state diagram and communicated through the PMA_LINK.indicate primitive.'

Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

Cl 55 SC 55.2.1.2.3 P 694 L 40 # 77
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D

This subclause states that 'The effect of receipt of this primitive is specified in 55.3.6.2.' however 'PMA_LINK.indication', nor the 'link_status' parameter communicated by this primitive, are referenced in subclause 55.3.6.2 'State diagram parameters' for the PCS state diagrams.

Instead this primitive is generated by the Link Monitor state diagram and used by Auto-Negotiation. (comment 115, 802.3bq 3rd WG recirc)

SuggestedRemedy

Suggest the text 'The effect of receipt of this primitive is specified in 55.3.6.2.' should be replaced with 'Auto-Negotiation uses this primitive to detect a change in link_status as described in Clause 28.'

Proposed Response Response Status O

Cl 55 SC 55.2.2.3.2 P 698 L 26 # 78
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D

This subclause states that 'The PCS generates PMA_UNITDATA.request (SYMB_4D) synchronously with every transmit clock cycle.'. As well as SYMB_4D, the value ALERT can also be conveyed by this message (see subclause 55.2.2.3.1). Shouldn't this case also be covered, if so the simplest approach would appear to be to send a PMA_UNITDATA.request message every clock cycle. (comment 116, 802.3bq 3rd WG recirc)

SuggestedRemedy

Suggest that 'The PCS generates PMA_UNITDATA.request (SYMB_4D) synchronously with every transmit clock cycle.' should be changed to read 'The PCS generates PMA_UNITDATA.request synchronously with every transmit clock cycle.'

Proposed Response Response Status O

Cl 55 SC 55.3.2.1 P 703 L 52 # 79
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D

This subclause states that 'PCS Reset sets pcs_reset=ON while ...' however subclause 55.3.6.2.2 'Variables' defines pcs_reset as a Boolean. (802.3bq 3rd WG recirc comment 117)

SuggestedRemedy

Suggest that '... sets pcs_reset=ON ...' should be changed to read '... sets pcs_reset = true ...'

Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

CI 55 SC 55.3.2.2 P704 L3 # 80
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D

While this subclause states that the PCS transmit function shall meet the PCS state diagram (Figure 55-16) and bit ordering (Figures 55-6 and 55-8) I don't believe that either of these address the operation of what appears to be a three way multiplexor controlled by the PMA_TXMODE.indication parameter tx_mode which selects between training (SEND_T), normal (SEND_N) and sending zeros (SEND_Z). There does appear to be a description of this in paragraphs six, seven and nine of this subclause, however they do not contain 'shall' statements, nor does it appear there are any related shall statements elsewhere. Based on this there doesn't appear to be any 'shall' statements in relation to the control of the parameter tx_mode. (comment 120 802.3bq 3rd WG recirc)

SuggestedRemedy

- Suggest that:
- [1] The text '... has the value SEND_Z, PCS Transmit passes a vector of zeros ...' be changed to read '... has the value SEND_Z, PCS Transmit shall pass a vector of zeros ...'.
 - [2] The text '... has the value SEND_T, PCS Transmit generates sequences ...' be changed to read '... has the value SEND_T, PCS Transmit shall generate sequences ...'.
 - [3] The text 'In the normal mode of operation, the PMA_TXMODE.indication message has the value SEND_N, and the PCS Transmit function uses a ...' to read 'If a PMA_TXMODE.indication message has the value SEND_N, the PCS is in the normal mode of operation, and the PCS Transmit function shall use a ...'.
 - [4] The PICS be updated to add these three new shall statements.

Proposed Response Response Status O

CI 55 SC 55.3.2.2.22 P716 L52 # 81
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D

It is the tx_symb_vector parameter of the PMA_UNITDATA.request primitive that can be set to the value ALERT (see subclause 55.2.2.3.1). As a result of that the next time the PMA_UNITDATA.request message is sent it will have the value ALERT. (802.3bq 3rd WG recirc, comment 133)

SuggestedRemedy

Suggest the text '... the PMA_UNITDATA.request message is set to the value ALERT.' be changed to read '... the PMA_UNITDATA.request parameter tx_symb_vector is set to the value ALERT.'.

Proposed Response Response Status O

CI 55 SC 55.3.2.3 P717 L43 # 82
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D

Subclause 55.3.7.1 'Status' seems to be the only location where the definition of the parameter PCS_status is provided where it states that 'Indicates whether the PCS is in a fully operational state. It is only true if block_lock is true and hi_lfer is false.'. In addition the PCS_status parameter is defined as having the values 'OK' and 'NOT_OK' (see 55.2.2.6.1) and not 'true' and 'false'. Since this is a subclause of 55.3.7 'PCS management' suggest this is not the best place to provide the only definition. Instead, since Figure 55-3 shows PCS_status sourced from the PCS RECEIVE block, suggest this definition be provided in subclause 55.3.2.3 'PCS Receive function'. (comment 137 802.3bq 3rd WG recirc)

SuggestedRemedy

Suggest that in subclause 55.3.2.3 'PCS Receive function' the text '... hi_lfer is de-asserted, the PCS Receive process continuously accepts blocks.' be changed to read '... hi_lfer is deasserted, the PCS_status parameter of the PMA_PCSSTATUS.request primitive is set to OK, and the PCS Receive process continuously accepts blocks.'.

Proposed Response Response Status O

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Cl 55 SC 55.3.6.3 P729 L 24 # 83
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D
 Delete the subclause 55.3.6.3 'Messages', a subclause 55.3.6.2 'State diagram parameters' (comment 139 802.3bq 3rd WG recirc) since for the following reasons there are not related to the state diagram.
 [1] The message 'PMA_UNITDATA.indication' and the parameter 'rx_symb_vector' are not referenced in the PCS state diagrams. The input to Figures 55-18 and 55-19 'PCS 64B/65B Receive state diagram' are 'rx_coded' which is the 'Input to decode function 65B block' in Figure 55-7 'PCS Receive bit ordering'. As can be seen in that figure, there are a number of processes that have already been performed on the parameter 'rx_symb_vector' from the message 'PMA_UNITDATA.request' before 'rx_coded' is presented as the input to the PCS state diagram.
 [2] The message 'PMA_UNITDATA.request' and the parameter 'tx_symb_vector' are not referenced in the PCS state diagrams. The output of Figures 55-16 and 55-17 'PCS 64B/65B Transmit state diagram' are 'tx_coded' which is the 'Output of encoder function 65B block' in Figure 55-6 'PCS transmit bit ordering'. As can be seen in that figure, there are a number of processes that have to be performed before the parameter 'tx_symb_vector' for the message 'PMA_UNITDATA.request' is generated.
 [3] 'PCS_status' is not a message, but instead a parameter of a message, regardless it is not generated or used by the by the PCS state diagrams.

SuggestedRemedy
 Delete the subclause 55.3.6.3 'Messages'.

Proposed Response Response Status O

Cl 55 SC 55.4.5.1 P753 L 29 # 84
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D
 The definition for the 'link_control' variable states 'This variable is defined in 28.2.6.2' however IEEE Std 802.3 subclause 28.2.6.2 defines the PMA_LINK.request primitive. (802.3bq 3rd WG recirc, comment 144)

SuggestedRemedy
 Suggest that variable description be changed to read 'The link_control parameter generated by Auto-Negotiation and passed to the PMA via the PMA_LINK.request primitive (see 55.2.1.1).

Proposed Response Response Status O

Cl 55 SC 55.4.5.1 P756 L 14 # 85
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D
 Missing PICS for mtc and stc (comment 185 on 2nd WG recirc 802.3bq)

SuggestedRemedy
 Add PICS for mtc and stc. See clause 113 for text

Proposed Response Response Status O

Cl 55 SC 55.4.5.2 P757 L 11 # 86
 Zimmerman, George CME Consulting, Inc.

Comment Type E Comment Status D
 Missing PICS for lpi_refresh_rx_timer, link_fail_sig_timer, and fr_maxwait_timer. (comment 186 on 2nd WG recirc 802.3bq)

SuggestedRemedy
 Add PICS as per comment. See clause 113 for text

Proposed Response Response Status O

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Cl 55 SC 55.4.6.3 P761 L 20 # 87
 Zimmerman, George CME Consulting, Inc.
 Comment Type E Comment Status D
 maxwait_time_done should be maxwait_timer_done (comment 228 on 2nd WG recirc 802.3bq)
 SuggestedRemedy
 per comment
 Proposed Response Response Status O

Cl 55 SC 55.6.2 P776 L 30 # 90
 Zimmerman, George CME Consulting, Inc.
 Comment Type E Comment Status D
 "PMA_CONFIG.indicate" should be "PMA_CONFIG.indication" (to match the definition in 55.2.2.2). (802.3bq 2nd WG recirc, comment 230)
 SuggestedRemedy
 see comment
 Proposed Response Response Status O

Cl 55 SC 55.4.6.5 P763 L 15 # 88
 Zimmerman, George CME Consulting, Inc.
 Comment Type E Comment Status D
 "start_link_fail_sig_timer" should be "start link_fail_sig_timer" (comment 229 on 2nd WG recirc 802.3bq)
 SuggestedRemedy
 per comment
 Proposed Response Response Status O

Cl 55 SC 55.12.9 P808 L 17 # 91
 Zimmerman, George CME Consulting, Inc.
 Comment Type E Comment Status D
 Option INS is used, but not defined under options (802.3bq 2nd WG recirc comment 177)
 SuggestedRemedy
 Include option INS in 55.12.2, see 113.12.2 for text:
 *INS Installation / cabling 113.7 O Yes []No [] Items
 marked with INS include installation practices and cabling specifications not applicable to a PHY manufacturer
 Proposed Response Response Status O

Cl 55 SC 55.12.6 P806 L 11 # 89
 Zimmerman, George CME Consulting, Inc.
 Comment Type E Comment Status D
 PME15 lists "Test mode 7 operations" as mandatory but there isnt any shall in this paragraph. (Should there be? All other text in this subclause for the other 6 test modes have "shalls". (802.3bq 2nd WG recirc, comment 183)
 SuggestedRemedy
 Change last para. Of 55.5.2 P765 L38 from "This mode reuses the 10GBASE-T scrambler and is defined in detail in 55.3.3." to read:
 "This mode shall reuse the 10GBASE-T scrambler defined in detail in 55.3.3."
 Proposed Response Response Status O

Cl 21 SC 21.6.3 P42 L 54 # 92
 Hidaka, Yasuo Fujitsu Lab. of Americ
 Comment Type E Comment Status D
 The sixth column contains values and/or comments only up to clause 28. In clause 31 and higher, the fourth column contains values and/or comments.
 SuggestedRemedy
 Change "the sixth column" to "the fourth or sixth column".
 Proposed Response Response Status O

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Cl 30 SC 30.5.1.1.18 P443 L 8 # 93
 Hidaka, Yasuo Fujitsu Lab. of Americ

Comment Type T Comment Status D
 Each element of this array contains a count of uncorrectable FEC blocks, not corrected FEC blocks.
 This error was corrected in P802.3bs TF by comment i-12 to P802.3bs D3.0. We may apply the same change.

SuggestedRemedy
 Change "corrected" to "uncorrectable".

Proposed Response Response Status O

Cl 49 SC 49.2.4.9 P400 L 28 # 94
 Hidaka, Yasuo Fujitsu Lab. of Americ

Comment Type T Comment Status D
 The phrase "within any character of the block" is misleading or incorrect, because "within any character" implicates "on any bit of character".

SuggestedRemedy
 Change "within any character of the block" to "on any character within the block".

Proposed Response Response Status O

Cl 55 SC 55.3.2.2.12 P712 L 17 # 95
 Hidaka, Yasuo Fujitsu Lab. of Americ

Comment Type T Comment Status D
 The phrase "within any character of the block" is misleading or incorrect, because "within any character" implicates "on any bit of character".

SuggestedRemedy
 Change "within any character of the block" to "on any character within the block".

Proposed Response Response Status O

Cl 81 SC 81.5.3.2 P129 L 6 # 96
 Hidaka, Yasuo Fujitsu Lab. of Americ

Comment Type E Comment Status D
 The status of PL1 is "RS:M" that is mandatory when option RS is supported, but RS is mandatory, not optional.

Same for other PICS items in this clause.

SuggestedRemedy
 Change "RS:M" to "M" in the status column, and remove "N/A []" in the support column.

Apply the same change to PL1 through PL13, DS1 through DS4, FS3, FS5, FS7, FS13, FS15, FS16, LF1 through LF5.

Proposed Response Response Status O

Cl 81 SC 81.5.3.4 P130 L 22 # 97
 Hidaka, Yasuo Fujitsu Lab. of Americ

Comment Type T Comment Status D
 The status of FS1 is "XGE:M" that is mandatory when option XGE is supported, but option XGE is not defined.

SuggestedRemedy
 Add an option XGE to 81.5.2.3 Major capabilities/options as follows:

Item: XGE
 Feature: PHY support of either XLGMII or CGMII
 Subclause: 81.2, 81.3
 Value/Comment: blank
 Status: O
 Support: Yes [] No []

Proposed Response Response Status O

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CI 82 SC 82.2.3.8 P144 L13 # 98
 Hidaka, Yasuo Fujitsu Lab. of Americ

Comment Type T Comment Status D
 The phrase "within any character of the block" is misleading or incorrect, because "within any character" implicates "on any bit of character".

SuggestedRemedy
 Change "within any character of the block" to "on any character within the block".

Proposed Response Response Status O

CI 83D SC 83D.3.3.2 P619 L46 # 101
 Hidaka, Yasuo Fujitsu Lab. of Americ

Comment Type T Comment Status D
 There are no such variables as "Request_eq_cm1" and "Request_eq_c1", but there are variables "Requested_eq_cm1" and "Requested_eq_c1" that indicate the "requested" values of Local_eq_cm1 and Local_eq_c1, respectively.

SuggestedRemedy
 Change "Request_eq_cm1 and Request_eq_c1 indicate the request values" to "Requested_eq_cm1 and Requested_eq_c1 indicate the requested values".

Proposed Response Response Status O

CI 82 SC 82.7.3 P173 L13 # 99
 Hidaka, Yasuo Fujitsu Lab. of Americ

Comment Type T Comment Status D
 Item XGE100 is CGMII logical interface, not XLGMII logical interface, because XGE40 is XLGMII logical interface.

SuggestedRemedy
 Change "XLGMII" to "CGMII" in the row of XGE100.

Proposed Response Response Status O

CI 83D SC 83D.4 P620 L41 # 102
 Hidaka, Yasuo Fujitsu Lab. of Americ

Comment Type T Comment Status D
 C_b is not a COM parameter. It should be C_p.

SuggestedRemedy
 Change "C_b" to "C_p".

Proposed Response Response Status O

CI 91 SC 91.5.2.6 P383 L8 # 100
 Hidaka, Yasuo Fujitsu Lab. of Americ

Comment Type T Comment Status D
 The alignment marker payloads transmitted on FEC lane 1 should correspond to PCS lanes "1, 5, 9, 13, and 17" and not PCS lanes "0, 5, 9, 13, and 16".

SuggestedRemedy
 Change "0, 5, 9, 13, and 16" to "1, 5, 9, 13, and 17".

Proposed Response Response Status O

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CI 78 SC 78.5.1 P56 L44 # 103
 Ran, Adeo Intel

Comment Type T Comment Status D

The text here says "The LPI signaling can operate through the XGXS with no change to the PHY timing parameters described in Table 78-4 or the operation of the Data Link Layer Capabilities negotiation described in 78.4."

This is not true: the PHY timing parameters are changed, since the XGXS adds delays as specified in Table 78-4.

802.3bs used different text for the equivalent XS and it can be used here to correct the error.

SuggestedRemedy

Change to "The LPI signaling can operate through the XGXS with the PHY timing parameters modified by inclusion of the XGXS as described in Table 78-4. There is no change in the operation of the Data Link Layer Capabilities negotiation described in 78.4".

Optionally add a table footnote to the XGXS row in Table 78-4 similar to footnote b.

Proposed Response Response Status O

CI 78 SC 78.5.2 P57 L # 104
 Ran, Adeo Intel

Comment Type T Comment Status D

The text here says "The LPI signaling can operate across these interfaces with no change to the PHY timing parameters described in Table 78-4 or the operation of the Data Link Layer Capabilities negotiation described in 78.4."

This is not true: the PHY timing parameters are changed, since the AUIs add delays as specified in Table 78-4 footnote b.

SuggestedRemedy

Change to "The LPI signaling can operate across these interfaces with the PHY timing parameters modified as described in Table 78-4 footnote b. There is no change in the operation of the Data Link Layer Capabilities negotiation described in 78.4".

Proposed Response Response Status O

CI 78 SC 78.6.3 P59 L # 105
 Ran, Adeo Intel

Comment Type E Comment Status D

There is no PICS item for normative requirement to support fast wake TLV for 40G and above (P42 L26).

SuggestedRemedy

Add appropriate item(s) to the table.

Proposed Response Response Status O

CI 79 SC 79.3.1.4 P63 L30 # 106
 Ran, Adeo Intel

Comment Type T Comment Status D

This subclause title refers to "rules".

The only rule here is "An LLDPDU should contain no more than one MAC/PHY Configuration/Status TLV."

As written, this is not a rule but rather a recommendation, and an unclear one. There is no information to implementors on what to do if a received LLDPDU does contain more than one TLV of the same type. If two TLVs contain different information then there is ambiguity in the interpretation.

Looking at the meaning of this TLV, there is no sense in sending more than one, especially if the information in two TLVs within the same LLDPDU is different.

In the PICS this appears as an option (status "O"), which is even more confusing; "should" is a recommendation, not an option ("may" is an option).

It seems that this "should" should be a "shall" and the PICS status should be "M".

Same comment applies in multiple subclauses within clause 79.

SuggestedRemedy

Change "should" to "shall" here and in ths similar subclauses of clause 79, and update the PICS tables accordingly.

Optionally, add a note that previous revisions of this standard had a recommendation instead of a normative requirement (with editorial license).

Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

Cl 80 SC 80.1.3 P 82 L 30 # 107
 Ran, Adee Intel

Comment Type T Comment Status D

The XLGMII and CGMII may also be implemented with data-path width other than 64 bits for implementation convenience. (Running 100 Gb/s over 64-bit wide bus is likely challenging and not a typical implementation).

The 25G introduction does not list the 25GMII as an exception (see 105.1.2). The 10G introduction (44.1.4) does list XGMII, but only when it is a physical observable interface.

The remedy used in 802.3bs (116.1.2) may also be used here.

SuggestedRemedy

Append to list item a:

"Physical instantiations of these interfaces may use other data-path widths."

Alternatively, delete item a.

Proposed Response Response Status O

Cl 85 SC 85.8.3.3 P 232 L 53 # 108
 Ran, Adee Intel

Comment Type T Comment Status D

"must" here should really be a "shall", it is not an unavoidable situation.

SuggestedRemedy

Change to "shall".

Proposed Response Response Status O

Cl 85 SC 85.8.3.3 P 233 L 1 # 109
 Ran, Adee Intel

Comment Type T Comment Status D

The text here defines "The normalized amplitude" of the three coefficients, but subclause 85.8.3.3.1 refers to the coefficients themselves (not normalized amplitudes), while 85.8.3.3.2 refers to normalized amplitudes, and 85.8.3.3.3 again does not. Since these four subclauses all discuss the same coefficients, this can be quite confusing for the reader.

There is no reason to call this a normalized amplitude of the coefficient; it is really the coefficient value. (a coefficient has no amplitude, and "normalized amplitude" is used for very different things elsewhere).

This comment also applies in 92.8.3.5.1 through 92.8.3.5.4.

SuggestedRemedy

Change "The normalized amplitude of coefficient c(-1) is the value of" to "Coefficient c(-1) is defined as the value of". Change similarly for the other coefficients.

In 85.8.3.3.2, delete the 3 instances of "the normalized amplitude of".

Apply similarly in clause 92.

Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

CI 85 SC 85.8.3.3.3 P 233 L 27 # 110
 Ran, Adeo Intel

Comment Type T Comment Status D

There are no restrictions in this clause on the "minimum steady state differential output voltage" and "maximum steady state differential output voltage" - since these parameters are not defined.

The corresponding parameter is "Transmitter DC amplitude" but it is only specified for unequalized state (see 85.8.3.3, paragraph after item 6). In other settings, the output voltage with a long run is governed by $c(0)+c(-1)+c(1)$ and in fact there is no specification for a minimum value of that in clause 85 (unlike clause 72).

As stated, this is an aspect of the implemented coefficient range. But the limits are also based on combinations of all coefficients (e.g. their absolute sum is no larger than unity).

This comment also applies to 92.8.3.5.5 (where there are restrictions on minimum steady-state voltage, but only in preset state) and 93.8.1.5.5, which re-used the same text.

The suggested remedy is based on the text in clause 136.

SuggestedRemedy

Change
 "based on the coefficient range or restrictions placed on the minimum steady state differential output voltage or the maximum peak-to-peak differential output voltage"

To
 "based on the range of that coefficient or the combination of coefficients."

Alternatively, change to "based on the coefficient range or restrictions on the maximum peak-to-peak differential output voltage".

Apply also in clauses 92 and 93.

Proposed Response Response Status O

CI 85 SC 85.8.4.2.1 P 240 L 9 # 111
 Ran, Adeo Intel

Comment Type E Comment Status D

Typo in figure text: "PCG"

SuggestedRemedy

Change to "PGC"

Proposed Response Response Status O

CI 85 SC 85.8.3.4 P 235 L 34 # 112
 Ran, Adeo Intel

Comment Type E Comment Status D

Tab positions are incorrect, creating no white space after "Insertion_loss(f)" and incorrect tabulation. This repeats in many other equations in this clause.

SuggestedRemedy

Reformat to create correct tabulation. Apply in all equations in this clause.

Proposed Response Response Status O

CI 91 SC 91.5.2.7 P 384 L 1 # 113
 Ran, Adeo Intel

Comment Type E Comment Status D

Equation is truncated from above

SuggestedRemedy

Fix it

Proposed Response Response Status O

CI 92 SC 92.7.8 P 416 L 32 # 114
 Ran, Adeo Intel

Comment Type T Comment Status D

Loopback is not a PMD function (as noted in the text). It may be considered a PHY function, but in this case, the wording "adjacent PMA" is inappropriate.

This subclause may be considered out of place. There is no loopback subclause in optical PMDs. In 802.3cd it was decided not to have a loopback subclause in the electrical PMDs. If the NOTES are considered important, they can be moved to the appropriate subclause in the PMA clause.

Also applies in similar subclauses of 93, 110, and 111.

SuggestedRemedy

Change "adjacent PMA" to "PMA".

Consider deleting this subclause and moving the notes to the appropriate PMA clauses.

Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

Cl 92 SC 92.10.7.1 P437 L1 # 115
 Ran, Adee Intel

Comment Type T Comment Status D

Equation (92-31) uses the cascade() function, which is only defined in annex 93A, but there is no cross reference.

Comment also applies to 92.10.7.2.

SuggestedRemedy

Append to the first paragraph of 92.10.7:

"The channel path calculations use the function cascade() defined in 93A.1.2.1."

Alternatively, add a definition of cascade() (reference to 93A.1.2.1) in the "where" text following equations 92-31, 92-32, and 92-33.

Proposed Response Response Status

Cl 93A SC 93A.2 P696 L35 # 116
 Ran, Adee Intel

Comment Type T Comment Status D

The parameter beta was added to equation 93A-46 to fix an error (missing factor 2) in the original equation. With the current equation, correct accounting for transition time requires that beta be 2 and this should be stated explicitly by every clause that invokes COM.

This equation is used with the default beta=1 only in two cases - when 93C.2 is invoked by either 93.8.2 or 83D.3.3.1, which do not state a value for beta. This creates an incorrect calibration of the text, that would better be fixed.

In all other cases, beta is specified as 2.

Even if we prefer not to change existing clauses, it would be better to use a correction factor in the exception, not in the normal case.

SuggestedRemedy

[Option 1]

If we agree to apply a change that would fix the incorrect calculation in clause 93 and annex 83D:

In equation 93A-46, change beta to 2, and in the paragraph above it delete "beta is 1 unless defined otherwise for the Physical Layer specification that invokes this method"

Remove beta from all references to this equation (in clauses 110, 111, and in clauses of new amendments that are added to this revision).

[Option 2]

If we keep the clause 93 and annex 83D calculation unchanged:

Change "beta is 1 unless defined otherwise for the Physical Layer specification that invokes this method" to "beta is 2 unless defined otherwise for the Physical Layer specification that invokes this method", and add exceptions to use beta=1 in 83D.3.3.1 and in 93.8.2.3.

Remove beta from the other references to this equation (in clauses 110, 111, and in clauses of new amendments that are added to this revision).

Proposed Response Response Status

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

CI 98 SC 98.1.2 P207 L17 # 117
 Ran, Adeo Intel
 Comment Type E Comment Status D
 In Figure 98-2 the AN sublayer is labeled "AN2". Amd GMII is labeled "GMII1"
 The numbers refer to the notes and should be in superscript (see Figure 91-7).
 SuggestedRemedy
 Change the format of these numbers to superscript.
 Proposed Response Response Status O

CI 98 SC 98.2.1.1.3 P209 L36 # 118
 Ran, Adeo Intel
 Comment Type T Comment Status D
 This text specifies "bit sequence" with the numebrs +1 and -1. But a "bit" has a value of either 0 or 1; DME is an mapping of bits to electrical sequence, not to other bits.
 To add to the confusion, later it says "an end delimiter that consists of a logical 0 bit". But according to Figure 98-6 the end delimiter is an electrical zero, not a logical zero (which isn't defined)
 SuggestedRemedy
 Change "bit sequence" to "sequence".
 Change "logical 0 bit" to "electrical 0" or "zero voltage".
 Proposed Response Response Status O

CI 98 SC 98.2.4.3.2 P216 L44 # 119
 Ran, Adeo Intel
 Comment Type E Comment Status D
 "Will" is used here as a normative requirement. The next paragraph uses "shall" in a similar context.
 SuggestedRemedy
 Change "will" to "shall"
 Proposed Response Response Status O

CI 98 SC 98.5.1 P220 L33 # 120
 Ran, Adeo Intel
 Comment Type T Comment Status D
 link_control and link_status are per PMD/PMA. They appear with _[HCD] in Figure 98-7, so should be defined with a suffix _[x].
 SuggestedRemedy
 Append _[x] to the variable names.
 Proposed Response Response Status O

CI 99 SC 99.1 P239 L52 # 121
 Ran, Adeo Intel
 Comment Type E Comment Status D
 The text here is taken from 802.3br which was an amendment, but now it is a revision of the standard.
 SuggestedRemedy
 Change "this amendment" to "this standard".
 Check whether this footnote is still correct and relevant.
 Proposed Response Response Status O

CI 105 SC 105.1.2 P561 L13 # 122
 Ran, Adeo Intel
 Comment Type E Comment Status D
 Isolated numbers in the text should be spelled out. The text "4 lane" is also inconsistent with the rest of this list.
 SuggestedRemedy
 Change "4 lane" to "four-lane".
 Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

Cl 105 SC 105.4.3.1.2 P 566 L 44 # 123
 Ran, Adee Intel

Comment Type E Comment Status D

This is a general service interface definition, it does not refer to a specific sublayer.

Also applies to 105.4.3.2, 105.4.3.2.2, 105.4.3.3, 105.4.3.3.1, 105.4.3.3.2.

SuggestedRemedy

Change "The sublayer continuously sends" to "A sublayer continuously sends", here and in the other subclauses

Proposed Response Response Status O

Cl 110 SC 110.10.7.1.1 P 640 L 7 # 124
 Ran, Adee Intel

Comment Type E Comment Status D

Equations 93A-13 and 93A-14 should be used with PCB parameters replacing package parameters. This is stated in 110.10.7.1 but omitted here.

Also applies in 110.10.7.1.2.

SuggestedRemedy

Insert ", and the parameter values given in Table 92-12" before "representing an insetion loss", here and in 110.10.7.1.2.

Proposed Response Response Status O

Cl 69B SC 69B.4.3 P 818 L 47 # 125
 Healey, Adam Broadcom Ltd.

Comment Type E Comment Status D

Typo "expresssed".

SuggestedRemedy

Change to "expressed".

Proposed Response Response Status O

Cl 69B SC 69B.4.6.4 P 823 L 52 # 126
 Healey, Adam Broadcom Ltd.

Comment Type E Comment Status D

Typo "characteristics".

SuggestedRemedy

Change to "characteristics".

Proposed Response Response Status O

Cl 82 SC 82.7.4 P 174 L 8 # 127
 Anslow, Pete Ciena

Comment Type E Comment Status D

The PICS proforma tables in 82.7.4 do not have the appropriate entries in trhe "Support" column.

Same issue in 79.5.6, 83.7, 84.11, 85.13, 86.11.3, 89.11.4.3, 92.14, 93.11.3, 94.6.4.2, 83A.7, 83D.6.4, 126.12.3

SuggestedRemedy

In 82.7.4, 79.5.6, 83.7, 84.11, 85.13, 86.11.3, 89.11.4.3, 92.14, 93.11.3, 94.6.4.2, 83A.7, 83D.6.4, and 126.12.3 for items with status of:

"M" change the Support entry to "Yes []"

"O" change the Support entry to "Yes [] No []"

"Something:M" change the Support entry to "Yes [] N/A []"

"Something:O" change the Support entry to "Yes [] No [] N/A []"

Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

Cl 87 SC 87.8.3 P307 L13 # 128
Dawe, Piers Mellanox Technologies

Comment Type T Comment Status D
IEC 61280-1-3 (2010) is sufficient and we should use only international standards where they are available and adequate. IEC 61280-1-3 (2010) has a measurement definition for SMSR, and anyway, "TIA/EIA-455-127-A" would be "TIA-455-127-A".

SuggestedRemedy
Delete "TIA/EIA-455-127-A or" here (and TIA-455-127-A in the PICS 87.13.4.5).
Change subclause title from "Wavelength" to "Wavelength and sidemode suppression ratio (SMSR)". Add new second sentence "The sidemode suppression ratio (SMSR) of each optical lane shall be within the limits given in Table 87-7 if measured according to IEC 61280-1-3." Add PICS if wished (redundant with 87.13.4.3, 87.13.4.4).
Similarly in clauses 88, 89 and other maintained clauses with SMSR specs such as 52.

Proposed Response Response Status O

Cl 1 SC 1.4.419 P93 L21 # 129
Dawe, Piers Mellanox Technologies

Comment Type T Comment Status D
We should use only international standards where they are available and adequate. IEC 61280-1-3 (2010) has a clear definition of RMS spectral width.

SuggestedRemedy
Change "A measure of the optical wavelength range as defined by TIA 455-127-A (FOTP-127-A)." to "A measure of the optical wavelength range as defined by IEC 61280-1-3." or "The square root of the second moment of the power distribution about the centroidal wavelength of an optical signal. (See IEC 61280-1-3.)"

Proposed Response Response Status O

Cl 1 SC 1.3 P64 L21 # 130
Dawe, Piers Mellanox Technologies

Comment Type T Comment Status D
This reference may become unnecessary.

SuggestedRemedy
If we turn all the references to TIA-455-127-A into references to IEC 61280-1-3, remove this entry "TIA-455-127-A-2006, FOTP-127-A, Basic Spectral Characterization of Laser Diodes." but move footnote 23 to the next item.

Proposed Response Response Status O

Cl 94 SC 94 P487 L4 # 131
Dawe, Piers Mellanox Technologies

Comment Type T Comment Status D
100GBASE-KP4's time has passed.

SuggestedRemedy
Deprecate Clause 94 with the usual wording: NOTE--This PHY is not recommended for new installations. Since xxx 201x, maintenance changes are no longer being considered for this clause.

Proposed Response Response Status O

Cl 93A SC 93A.1 P687 L32 # 132
Dawe, Piers Mellanox Technologies

Comment Type T Comment Status D
The parameter called "Continuous time filter, zero frequency f_z" causes confusion because it isn't a zero frequency except when g_DC is zero, when it isn't interesting. Unlike "Continuous time filter, pole frequencies fp_1 fp_2" which really are pole frequencies. See Eq 93A-22. Further, the value of f_z in each COM table is the same as f_p1 in the same table.

SuggestedRemedy
If we might use f_z in a future specification, rename it to "Continuous time filter, zero parameter f_z0" in each COM table and Eq 93A-22. If that is not likely, remove the rows in the COM tables, and change f_z to f_p1 in Eq 93A-22.

Proposed Response Response Status O

Cl A SC A P563 L8 # 133
Dawe, Piers Mellanox Technologies

Comment Type E Comment Status D
The pdf bookmarks show titles of clauses but not of annexes

SuggestedRemedy
Change the layout of the titles of annexes so that their titles appear in the bookmarks, e.g. by putting "(normative)" after the title rather than before.

Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

Cl 92 SC 92.8.4.4 P428 L 37 # 134
 Dawe, Piers Mellanox Technologies
 Comment Type T Comment Status D
 Should some of the improvements that 802.3by made be taken back to clauses 92 and 93?
 SuggestedRemedy
 Proposed Response Response Status O

Cl 92 SC 92.8.4.4 P429 L 17 # 135
 Dawe, Piers Mellanox Technologies
 Comment Type T Comment Status D
 The text in 92.8.4.4.3 says "... should be set to the value that results in the COM value given in Table 92-8 when calculated". So these table entries for COM are reference or target values for setting up the test, like most of the other entries in this table. They can't be maxima (allowing any lower value) because then any receiver could be made to fail, however good it is.
 SuggestedRemedy
 Delete "(max)" from after "COM". Add it after "RS-FEC symbol error ratio"
 Proposed Response Response Status O

Cl 93 SC 93.8.2.3 P474 L 41 # 136
 Dawe, Piers Mellanox Technologies
 Comment Type T Comment Status D
 The text in 93C.2 items 7 and 8 say "determine the receiver noise level, sigma_bn, required to achieve the COM value specified in the PMD clause that invokes this method" and "adjust it so that it equals sigma_bn determined in step 7.". So these table entries for COM are reference or target values for setting up the test. They can't be maxima (allowing any lower value) because then any receiver could be made to fail, however good it is. Table 83D-5 has got it right.
 SuggestedRemedy
 Show that they are not maxima, e.g. by straddling the min and max columns or using a "Target" columns. Similarly for tables 110-6, 110-7, 110-8, 111-4, 111-5, 111-6 and 94-15.
 Proposed Response Response Status O

Cl 83D SC 83D.4 P620 L 29 # 137
 Dawe, Piers Mellanox Technologies
 Comment Type E Comment Status D
 One of these tables has a different title to the others (and one doesn't say "values" because it lists the parameters not the values - that's OK):
 Table 83D-6--Channel Operating Margin parameters
 Table 93-8--COM parameter values
 Table 93A-1--COM parameters
 Table 110-11--COM parameter values
 Table 111-8--COM parameter values
 SuggestedRemedy
 Change Table 83D-6--Channel Operating Margin parameters to Table 83D-6--COM parameter values or change three to Channel Operating Margin parameter values, 93A-1 to Channel Operating Margin parameters
 Proposed Response Response Status O

Cl 92 SC 92.8.3 P419 L 25 # 138
 Dawe, Piers Mellanox Technologies
 Comment Type E Comment Status D
 To make the document easier to use (finding spec items using string search), please include the initialisms in tables and in subclause headings, as the optical clauses do for OMA, TDP, SMSR and so on.
 SuggestedRemedy
 Add "(SNDR)" here and in tables 93-4, 83D-1 and 94-13.
 Consider changing 92.8.3.7 Transmitter output noise and distortion to 92.8.3.7 Signal-to-noise-and-distortion ratio (SNDR) so that the term appears in the contents: similarly for 93.8.1.6 and 94.3.12.7.
 Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

CI 86 SC 86.5.7 P 272 L 44 # 139
 Dawe, Piers Mellanox Technologies

Comment Type E Comment Status D

Function names don't have underscores like this (see line 42), although functional variable names do.

SuggestedRemedy

If the function names (as opposed to the variable names or MDIO register names) must match across clauses, change "The PMD_global_transmit_disable function" to "The PMD global transmit disable function". If not, change it to "The PMD transmit disable function". Similarly in 52.4.7, 53.4.7, 68.4.7, 87.5.7, 88.5.7, 89.5.6, 95.5.7, 112.5.6.

Proposed Response Response Status O

CI 53 SC 53.4.7 P 625 L 6 # 142
 Dawe, Piers Mellanox Technologies

Comment Type E Comment Status D

53 Global PMD transmit disable function, Global transmit disable, Global_PMD_transmit_disable
 86 PMD global transmit disable function, Global PMD transmit disable, PMD_global_transmit_disable
 92 Global PMD transmit disable function, Global PMD transmit disable, Global_PMD_transmit_disable

SuggestedRemedy

Can the order of "PMD" and "global" be made consistent? Similarly for signal detect.

Proposed Response Response Status O

CI 86 SC 86.5.7 P 272 L 50 # 140
 Dawe, Piers Mellanox Technologies

Comment Type E Comment Status D

the PMD may set the PMD_global_transmit_disable to one

SuggestedRemedy

the PMD may set the PMD_global_transmit_disable variable to one
 or
 the PMD may set PMD_global_transmit_disable to one (as in 92.7.6).
 Similarly in 87.5.7, 88.5.7, 89.5.6, 95.5.7, 112.5.6, 86.5.8, 88.5.8, 95.5.8.

Proposed Response Response Status O

CI 00 SC 0 P L # 143
 Dawe, Piers Mellanox Technologies

Comment Type E Comment Status D

This document would be easier to use with unique page numbers.

SuggestedRemedy

The pages could be numbered consecutively throughout the sections, or e.g. Section 4 could start on page 4001. Clause 115 could be moved from section 7 to 8 if 7 goes over 1000 pages (!)

Proposed Response Response Status O

CI 86 SC 86.5.8 P 272 L 50 # 141
 Dawe, Piers Mellanox Technologies

Comment Type E Comment Status D

Function names don't have underscores like this (see line 1), although functional variable names do. It's not obvious to me that we have to define the function separately for each lane - it's not done in the subclause heading (line 1)

SuggestedRemedy

If we don't, change "The PMD_transmit_disable_i function (where i represents the lane number in the range 0:n-1) is" to "The PMD lane-by-lane transmit disable function is". Insert "(where i represents the lane number in the range 0:n-1)" into the next sentence.

Proposed Response Response Status O

CI 112 SC 112.7.2 P 678 L 4 # 144
 Dawe, Piers Mellanox Technologies

Comment Type T Comment Status D

IEC 61280-1-3 (2010) is sufficient and we should use only international standards where they are available and adequate. Anyway, "TIA/EIA-455-127-A" would be "TIA-455-127-A".

SuggestedRemedy

Delete "TIA/EIA-455-127-A or" here (and in the PICS 112.11.4.4). Similarly in Clause 95 and other maintained MMF clauses that assume VCSELS.

Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

Cl 86 SC 86.8.4.1 P 282 L 6 # 145
 Dawe, Piers Mellanox Technologies

Comment Type T Comment Status D

IEC 61280-1-3 (2010) is sufficient and we should use only international standards where they are available and adequate.

SuggestedRemedy

Change TIA-455-127-A to IEC 61280-1-3 (and in the PICS 86.11.4.4). Similarly in other maintained SMF clauses such as 38.

Proposed Response Response Status O

Cl 1 SC 1.4.289 P 84 L 42 # 146
 Thompson, Geoff GraCaSI S.A.

Comment Type TR Comment Status D

The current definition of "link section" is not precise as to its boundaries. The definition of link section was always intended to be precisely equivalent to that of a link segment for a endspan PSE and precisely parallel to that of a link segment for a mispan PSE. The definition of a link section should use the same or parallel terminology as has always been used for link segment.

SuggestedRemedy

Change the CURRENT TEXT in the draft from: 1.4.289 link section: The portion of the link from the PSE to the PD.

To the PROPOSED TEXT: 1.4.289 link section: The point-to-point medium connection between the active PSE Power Interface (PI) and the PD PI.

This would be implementation of Maintenance Request #1309.

Proposed Response Response Status O

Cl 00 SC 0 P 1 L 1 # 147
 Healey, Adam Broadcom Ltd.

Comment Type T Comment Status D

This comment is submitted on behalf of Michelle Turner, Managing Editor, IEEE-SA.

Must or shall is used in NOTES (which are considered informative). Please note "shall" should not be used in informative notes. Please consider changing the verb to when necessary. I have also highlighted the areas when must is used. Typically "must" states a mandatory requirement and in many instances we will change "must" to shall during publication prep. With that being said-- we don't want to do that since it is in a NOTE. Please see the instances below. I've also provided a few recommendations as an example. I tried to avoid changing the verb to "should" or "may."

List of instances and recommendations are included in an attachment.

SuggestedRemedy

Modify notes to remove the use of "must" or "shall" as appropriate.

Proposed Response Response Status O

IEEE P802.3 (IEEE 802.3cj) D2.0 Maintenance #12 (Revision) Initial Working Group ballot comments

CI 98 SC 98.5.5 P 227 L 8 # 148
 Zimmerman, George CME Consulting, Inc.

Comment Type T Comment Status D late

Figure 98-8 has several typos. On 4 transitions (5 places) an OR (+) is indicated for state transitions when the condition should be an AND (*) - line 8, 14,21 (&22) and line 28. Clause 98 is based on Clause 73. There are some important differences but figure 73-9 shows the expected behavior for the state transitions that are common between them. (see figures attached as zimmerman_3cj_01_0817.pdf showing Figures 73-9 and 98-8). On 4 transition branches, "*" (AND) operators, appear to have been replaced with "+" (OR) operators.

I can only conclude this was a typo made on the implementation of comment 316 going from Draft 2.0 to Draft 2.1, which remained uncaught, for the following reasons:

1. The original contribution that proposed the state diagram had these as "**" (mcclellan_3bp_03_1114_%20Autoneg_baseline_text_proposal_v0p4.pdf, page 25)
2. The proposal was implemented as "*" in draft 1.1 (the first place this showed up): (see e.g., page 88 of D1.1), through d 2.0, but change in D 2.1 when the figure was redrawn based on comment 316 to change the font size, and were unchanged since then.
3. There are no comments on draft 2.0 to change the logic of the transitions on Figure 98-8, or in connection with these variables, based on an electronic search of the D2.0 comment resolution report.

SuggestedRemedy

Line 8: Change "transmit_mv_end_done + remaining_ack_cnt = done" to "transmit_mv_end_done * remaining_ack_cnt = done" on transition from TRANSMIT DELIMITER TAIL to WAIT 1)

Line 14: Change "complete_ack = true + transmit_mv_start_done" to "complete_ack = true * transmit_mv_start_done" on transition from TRANSMIT DELIMITER HEAD to TRANSMIT REMAINING ACKNOWLEDGE

Lines 22 & 23 (2 instances): Change "complete_ack = false + transmit_ability = true + transmit_mv_start_done" to "complete_ack = false * transmit_ability = true * transmit_mv_start_done" on transition from TRANSMIT DELIMITER HEAD to TRANSMIT ABILITY

Line 27: Change "transmit_mv_end_done + remaining_ack_cnt = not_done" to "transmit_mv_end_done * remaining_ack_cnt = not_done" on transition from TRANSMIT DELIMITER TAIL to WAIT 2.

Proposed Response Response Status O