Cl 75 SC 75.5.1 P 582 # C/ 45 SC 45.2.3 P 175 L 24 L 8 **Bright House Network** Anslow, Pete Hajduczenia, Marek Ciena Comment Type E Comment Status A bucket Comment Type Ε Comment Status A Extra empty spaces Register 3.23 is not allocated to anything, but it is not marked as "Reserved" in Table 45-SuggestedRemedy Similar issue with register 4.23 in Table 45-164. Remove lines 8-12 SuggestedRemedy Response Response Status C Show register 3.23 as reserved in Table 45-119. ACCEPT. Show register 4.23 as reserved in Table 45-164. Response Response Status C SC 30.5.1.1.17 P 439 C/ 30 / 54 # ACCEPT. Hajduczenia, Marek **Bright House Network** C/ 81 SC 81.5.3.2 P 124 L 25 Comment Type T Comment Status A bucket Anslow. Pete Ciena If a Clause 45 MDIO Interface is present, then this attribute maps to the FEC corrected blocks counter(s) (see 45.2.7.5 and 45.2.1.94 for 10GBASE-R, 45.2.3.39 for 10GBASE-PR Comment Type E Comment Status A bucket and 10/1GBASE-PRX, 45.2.1.116 for BASE-R, and 45.2.1.103 for RS-FEC).: In PICS item PL7. "RXD<0:63>" should be "RXD<63:0>" as it is in the referenced subclause 81.1.7.2.3 Reference to 45.2.7.5 AN package identifier (Registers 7.14 and 7.15) is not correct and should point to 45.2.8.5 FEC corrected blocks counter (Register 29.10) SuggestedRemedy SuggestedRemedy Change "RXD<0:63>" to "RXD<63:0>" Change reference from 45.2.7.5 to 45.2.8.5 Response Response Status C Response Response Status C ACCEPT. ACCEPT. CI 82 SC 82.2.3.7 P 139 L4 C/ 30 SC 30.5.1.1.18 P 440 L 25 # 3 Anslow. Pete Ciena Hajduczenia, Marek **Bright House Network** Comment Status A Comment Type bucket Comment Status A Comment Type T bucket 82.2.3.7 contains "TXD<0:7> and RXD<0:7>" but everywhere else in this clause the higher number comes first. If a Clause 45 MDIO Interface is present, then this attribute maps to the FEC uncorrectable blocks counter(s) (see 45.2.7.5 and 45.2.1.95 for 10GBASE-R, 45.2.3.40 for 10GBASE-PR SugaestedRemedy and 10/1GBASE-PRX, 45.2.1.117 for BASE-R, and 45.2.1.104 for RS-FEC).: Change "TXD<0:7> and RXD<0:7>" to "TXD<7:0> and RXD<7:0>" Reference to 45.2.7.5 AN package identifier (Registers 7.14 and 7.15) is not correct and Response Response Status C should point to 45.2.8.6 FEC uncorrected blocks counter (Register 29.11) ACCEPT.

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G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

SuggestedRemedy

ACCEPT.

Response

Change reference from 45.2.7.5 to 45.2.8.6

Response Status C

Comment ID 6

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C/ 86A L 11 # 7 Cl 75 SC 86A.5.3.3 P 662 Ciena Anslow, Pete Anslow, Pete

Comment Type Т Comment Status A

86A.5.3.3 includes "If the test pattern is PRBS9, the transitions within sequences of five zeros and four ones, and nine ones and five zeros, respectively, are measured. These are bits 10 to 18 and 1 to 14, respectively, where bits 1 to 9 are the run of nine zeros." However, if the nine ones and five zeros are bits 1 to 14, then bits 1 to 9 cannot be a run of nine zeros.

SuggestedRemedy

Change "where bits 1 to 9 are the run of nine zeros" to "where bits 1 to 9 are the run of nine ones"

Response Response Status C ACCEPT.

Ρ CI 00 SC 0 L # 8 Anslow. Pete Ciena

Comment Type T Comment Status A

Changes have been made to the P802.3bm draft in response to the 38 comments received during the second sponsor ballot recirculation. These changes should also be made to the revision draft.

SuggestedRemedy

to the revision draft.

Make the changes shown in: http://www.ieee802.org/3/bm/private/P802d3bm-D3p3 CMP.pdf

Response Response Status C

ACCEPT.

SC 75.7.10 P 587 L 32 # 9

Ciena

Comment Type T Comment Status A

75.7.10 says "See 58.7.9 for details of the measurement for 1 Gb/s PHYs and 52.9.10 for 10 Gb/s PHYs."

58.7.9 gives details of the dispersion and reflection to be used in the test for the 1 Gb/s PHYs in Table 58-12. However, for the 10 Gb/s PHYs the dispersion and reflection level to be used is not stated.

SugaestedRemedy

Add text and a Table to define the dispersion and reflection levels to be used for the TDP test for 10 Gb/s PHYs as per the changes shown in anslow 1 0115

Response Response Status C

ACCEPT.

C/ 45 SC 45.2.1.39.4 P 91 L 11 # 10 Anslow. Pete Ciena

Comment Status A Comment Type

In 45.2.1.39.3 "Max SNR margin (1.59.13:5)" the last sentence is:

"The SNR margin is in units of dB, derived by dividing the value of bits 13:5 by 4." which make sense.

However, the last sentence of:

45.2.1.39.4 "Target SNR margin (1.60.8:0)" and

45.2.1.39.5 "Minimum SNR margin (1.61.8:0)"

is identical to that quoted for 45.2.1.39.3 above which doesn't make sense as the bit range is not appropriate for these subclauses.

SuggestedRemedy

In 45.2.1.39.4 change:

"The SNR margin is in units of dB, derived by dividing the value of bits 13:5 by 4." to:

"The target SNR margin is in units of dB, derived by dividing the value of bits 8:0 by 4." In 45.2.1.39.5 change:

"The SNR margin is in units of dB, derived by dividing the value of bits 13:5 by 4." to:

"The minimum SNR margin is in units of dB, derived by dividing the value of bits 8:0 by 4."

Response Response Status C

ACCEPT.

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

Cl 45 SC 45.2.3.1.2 L 47 # 11 Cl 79 P73 L 18 P 177 SC 79.5.3 # 14 Ciena Anslow, Pete Anslow, Pete Ciena Comment Type Т Comment Status A Comment Type т Comment Status A bucket 45.2.3.1.2 and 45.2.3.2.7 (2 instances) contain "the PCS type selection field (3.7.1:0)" Item \*EEFW has a subclause of "79.5.7" but that is another table in the PICS. The But in Table 45-123 the PCS type selection field is bits 3.7.2:0 (3 bits) not 3.7.1:0 subclause reference should be "79.3.6" SuggestedRemedy SuggestedRemedy In 45.2.3.1.2 and 45.2.3.2.7 (2 instances) change "3.7.1:0" to "3.7.2:0" Change the \*EEFW subclause entry from "79.5.7" to "79.3.6" Response Response Status C Response Response Status C ACCEPT. ACCEPT. Cl 45 SC 45.5.3.7 P 289 L 6 C/ 80 SC 80.5 P 98 L 33 # 15 Anslow, Pete Anslow, Pete Ciena Ciena Comment Type T Comment Status A bucket Comment Type T Comment Status A PICS item RM32 has a subclause value of "45.2.5.9" which is the EEE wake error counter In the last row of Table 80-7, "At PCS receive (with RS-FEC)" has an entry of <curly in the DTE XS section. equals> 2 UI in the 25G column. However 45.5.3.7 is the PCS management functions section, so this should point to This should be should be <curly equals> 10 UI as this column is for the 25G PMD lane 45.2.3.10 which is the EEE wake error counter for the PCS rate (same value as for the At RS-FEC transmit row). 2 UI is for the 5G PCS lane rate. {This was incorrect in the IEEE 802.3az-2010 amendment] SuggestedRemedy SuggestedRemedy In the last row of Table 80-7, "At PCS receive (with RS-FEC)" in the 25G column, change Change "45.2.5.9" to "45.2.3.10" <curly equals> 2 UI to <curly equals> 10 UI. Response Response Response Status C Response Status C ACCEPT. ACCEPT. Cl 82 SC 82.7.6.4 P 172 # 16 L 31 Cl 78 SC 78.4.3 P 51 L 38 # 13 Anslow, Pete Anslow. Pete Ciena Ciena Comment Status A Comment Type Comment Status A bucket Comment Type Т bucket In the Feature entry of item AN1\* and the Value/Comment entry for item AN2, the word The second to last paragraph of 78.4.3 starts: "PMD" appears part way down the list rather than at the end. "The transmitting link partner may advertise a change of Fast Wake Enable through the aLldpXdot3LocTxFW (30.12.3.1.24) attribute in the LldpXdot3LocSystemsGroup managed Also the \* in "AN1\*" should be at the start not the end. object class (30.12.2). SugaestedRemedy But 30.12.3.1.24 is aLldpXdot3RemTxFw, i.e. Rem not Loc and it is in 30.12.3 not 30.12.2. Move the word "PMD" to the end of the list (2 instances) and change "AN1\*" to "\*AN1" Also, the variable names in 78.4.3 have "FW" where the same variable in 30.12 has "Fw" SuggestedRemedy Response Response Status C ACCEPT. Change "aLldpXdot3LocTxFW (30.12.3.1.24)" to "aLldpXdot3LocTxFw (30.12.2.1.24)"

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

Change the "FW" in variable names in 78.4.3 to match those in 30.12

Response Status C

Response

ACCEPT.

Comment ID 16

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Cl 33 SC 33.1.4 L 43 # 17 C/ 00 SC 0 Ρ L P 609 # 19 Anslow, Pete Ciena Anslow, Pete Ciena Comment Type Ε Comment Status A bucket Comment Type E Comment Status A bucket In the bottom row of Table 33-1, in "twisted-pair cabling per 14.4 and 14.5", "14.4" and The 802.3 words page: "14.5" should be cross-references http://www.ieee802.org/3/WG tools/editorial/requirements/words.html asks for "common-mode (when used as an adjective)". SuggestedRemedy Places in 802.3 that do not conform with this are: Make "14.4" and "14.5" cross-references. 23.12.4.13 PME45 and PME46, 32.6.1.3.6, 32.6.1.4.3 (2 instances), 32.13.5.8 PME56. PME65, Figure 54-3, Figure 55-41 (2 instances), Figure 55-42 (2 instances), Figure 85-5, Response Response Status C 70.7.1.5, 71.7.1.4, 72.7.1.4 ACCEPT. SuggestedRemedy CI 59 SC 59.3.1 P 138 L 10 # 18 Change to "common-mode" in all of the identified instances Anslow, Pete Ciena Response Response Status C ACCEPT. Comment Type Ε Comment Status A bucket Table 59-4, Table 60-4, Table 60-7, and Table 60-10 all use a blank row as a separator CI 00 SC 0 Ρ # 20 1 between a set of spot values and the range from 1480 nm to 1500 nm. This is not appropriate as blank cells in such tables should contain an em dash according to the IEEE Anslow, Pete Ciena style manual (13.3.2). Comment Type Comment Status A A comment was made regarding this against P802.3bk D2.0 See: http://www.ieee802.org/3/bk/comments/8023bk D20 resolved.pdf#page=12 The 802.3 words page: The comment included: http://www.ieee802.org/3/WG\_tools/editorial/requirements/words.html "Remove the blank row - change the ruling thickness between rows to provide a separator." asks for "implementor (not implementer)" The response included: However the 2014 IEEE-SA Standards Style Manual requires the boilerplate text to include "Blank row remains as is. The blank row in Table 60-8b matches that used in Tables 59-4, "Implementers of IEEE Standards documents ..." as per the beginning of Section 1 of this 60-4 and 60-7 of IEEE Std 802.3-2012. Replacing the blank row with a thick line in all of draft. these tables would be more appropriate to a revision of the base standard 802.3." The best way to remove this inconsistency seems to be to change the 802.3 recommended spelling to "implementer". SuggestedRemedy SuggestedRemedy Replace the blank row in Table 59-4, Table 60-4, Table 60-7, and Table 60-10 with a thicker separator line. Change all instances of "implementor" to "implementer" throughout the draft and also change the 802.3 words page: Response Response Status C http://www.ieee802.org/3/WG\_tools/editorial/requirements/words.html ACCEPT. to match. Response Response Status C

ACCEPT.

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

Comment ID 20

C/ 03 SC 3.1.1 P 85 L 2 # 21 CI 77 SC 77.3.6.2 P 707 # 23 L 9 Anslow, Pete Ciena Remein, Duane Huawei Technologies Comment Type Ε Comment Status A bucket Comment Type ER Comment Status A The second to last paragraph of 3.1.1 contains "... that portion of the packet from the Shall with no PICS statement. dEstination Address field through ... "where the capitalization of "dEstination" is incorrect. The following requirement is not tracked in the PICS d) Queue #n Report. This value represents the length of queue #n at time of REPORT SuggestedRemedy message generation. The reported length shall be adjusted and rounded up to the nearest Change "dEstination" to "Destination" time quantum to account for the necessary inter-frame spacing and preamble. FEC parity overhead is not included in the reported length. The Queue #n Report field is an unsigned Response Response Status C 16 bit integer representing the transmission request in units of time quanta. This field is ACCEPT. present only when the corresponding flag in the Report bitmap is set. SuggestedRemedy C/ 04A SC 4A P 577 L 3 Add PICS Anslow, Pete Ciena MP8a | 77.3.6.2 | REPORT Queue #n length roundeing | ONU:M | Yes[] Comment Type Comment Status A bucket Response Response Status W Annex 4A is a normative Annex but in Framemaker the heading "Annex 4A" has a ACCEPT IN PRINCIPLE. paragraph tag of "AI, Annex" which is the tag for an informative Annex. This has the effect that the Table of Contents will say (informative) when it is generated The new PICS would be MP9 and the existing PICS MP9 and onward would be

SuggestedRemedy

table of contents)

Change paragraph tag to "AN, Annex".

[It would also be helpful to import the reference pages from one of the other sections to the section 1 TOC so that it is formatted for Annex titles as per the published standard.]

with the format used for the published version. (see page 53 ( page li) in the 802.3-2012

Response Status C

ACCEPT.

Add PICS

renumbered accordingly.

Also correct the typo "roundeing".

MP9 | 77.3.6.2 | REPORT Queue #n length rounding | ONU:M | Yes[]

Renumber existing PICS MP9 and onward accordingly.

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

Comment ID 23

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Cl 53 SC 53.8.2.1 P 541 # 24 L 31 Ran, Adee Intel

Comment Type Т Comment Status A

The change of reference from 53.7.1 to 48B.3, although suggested by me in maintenance request 1258, turned out to be incorrect. Annex 48B.3 is about litter output test methodology, quite different from jitter tolerance which is discussed in this subclause. This annex also uses a different metodology (curve fitting to a dual-Dirac model) than the one used here (full BERT scan).

The correct method is based on the transmit jitter measurement in clause 53 (but subclause 53.8.1, unlike the original reference). "Based on" but not "defined in". Subclause 53.8.2.1 actually lists the differences from 53.8.1 - for example, a minimum stress mask (figure 53-4) instead of a maximum jitter mask (figure 53.3).

SuggestedRemedy

Delete the sentence

"The test method for verification of the input litter is defined in 48B.3."

Instead, add the following paragraph at the beginning of 53.8.2.1 (before the current first paragraph):

"The test method for verification of the input jitter is based on the one defined in 53.8.1, with the following requirements."

Response Status C Response

ACCEPT IN PRINCIPLE.

See comment #49

Cl 46 SC 46.4.2.2 P 328 L7 # 25 Ran. Adee Intel

Comment Type Ε Comment Status A

bucket Subclause 46.4.2.2, titled "State diagram", is empty. Its parent subclause 46.4.2 titled

"Transmit LPI state diagram" contains the state diagram mentioned. There seems to be no need for a nested subclause.

SuggestedRemedy

Delete subclause 46.4.2.2.

Response Response Status C

ACCEPT.

C/ 01 SC 1.4.304 P 79 L 20 # 26

Ran, Adee Intel

Comment Type E Comment Status A

ordered set is defined with reference only for 1000BASE-X PCS (clause 36), but also used in other places: clauses 46 (RS and XGMII), 48 (10GBASE-X PCS), 49 (10GBASE-R PCS), 55 (10GBASE-T), 81 (RS, XLGMII and CGMII) and 82 (40GBASE-R and 100GBASE-R PCS).

It does not seem necessary to list all the clauses that use this term.

SugaestedRemedy

Delete "As used in the 1000BASE-X PCS".

Delete the last sentence "(See IEEE Std 802.3, Clause 36.)".

Response Response Status C

ACCEPT IN PRINCIPLE.

Replace the definition with the following.

"ordered set: A single special code-group, a combination of special and data code-groups, or a combination of a control character and data characters that are used to send control and status information such as remote fault and local fault status over the link. Also used by the 1000BASE-X and 10GBASE-X PCS for delineation of a packet and synchronization between the transmitter and receiver circuits at opposite ends of a link. (See IEEE Std 802.3. Clause 36. Clause 48. Clause 49. Clause 55. and Clause 82)."

Also see #27.

Cl 46 SC 46.1.7.5.3 # 27 C/ 93A SC 93A.2 L 74 # 29 P 312 L 39 P 694 Ran, Adee Intel Ran, Adee Intel Comment Type Ε Comment Status A Comment Type Ε Comment Status A bucket Mixed usage of "ordered set" and "ordered set" in this clause (compare to page 323 line Index mismatch in equation 93A-50: n is not defined. SugaestedRemedy Change "i" to "n" in summation limits. "ordered set" also appears in 46.1.7.5.3, 46.3.4, 46.6.3.2, 49.2 (multiple subclauses), 49.3.4.1, 81.1.7.5.3, 81.3.4, 81.4.3.2, 82.2 (multiple subclauses), 82.7.4. Response Response Status C ACCEPT. "ordered set" is defined in clause 1 and used throughout clause 36, so should probably be used consistently in all these places. But it can be corrected to "ordered set" consistently. Р Cl 94 SC 94.3.12.6.1 SuggestedRemedy Ran. Adee Intel Change "ordered set" to "ordered set", or vice versa, consistently throughout the standard. Comment Type E Comment Status A bucket Response Status C Response Items 4-6 in the list and and equation 94-15 use i as an index, but i is also defined as the ACCEPT IN PRINCIPLE. imaginary unit. Replace instances of "ordered set" with "ordered set" throughout the standard using SuggestedRemedy appropriate capitalization. To avoid confusion, change index j to n in items 4-6 and equation 94-15. Response Cl 92 P 416 # 28 Response Status C SC 92.8.3.2 L 36 Ran. Adee Intel ACCEPT IN PRINCIPLE. Comment Type T Comment Status A Since uppercase N is already used, change the index i to k in items 4 to 6 and Equation 94-Several types of return loss are used here. Equations 92-1 and 92-2 refer just to "return loss" without saying which one, while other equations state the specific type of return loss. In item 5 "j=sqrt(-1)" and Equation 94-16 change j to be in upright font as the IEEE style guide requires mathematical constants to be "set in upright (Roman) text". SuggestedRemedy Insert "differential" before "return loss" in the description of 92-1. CI 73 SC 73.7.4.1 P 513 L 3 # 31 Insert "common-mode to differential" before "return loss" in the description of 92-2. Ran. Adee Intel Response Response Status C Comment Type E Comment Status A bucket ACCEPT IN PRINCIPLE. Long sentence, confusing punctuation and phrasing. For equation 92-1, on page 416, line 36 change: SuggestedRemedy "is the return loss at frequency f" to: Delete the comma after "10GBASE-KX4", and instead add a comma after "have disabled "is the differential output return loss at frequency f"

Auto-Negotiation".

Change "that do not provide Clause 73 Auto-Negotiation" to "but do not provide Clause 73 Auto-Negotiation"

Response Response Status C ACCEPT.

"is the return loss at frequency f" to: "is the differential input return loss at frequency f"

For equation 92-21, on page 424, line 33 change:

For equation 92-20, on page 424, line 21 change:

For equation 92-2, on page 416, line 52 change:

"is the return loss at frequency f" to:

"is the return loss at frequency f" to:

"is the differential to common-mode input return loss at frequency f"

"is the common-mode to differential mode output return loss at frequency f"

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

Comment ID 31

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Cl 82 SC 82.2.19.2.2 P 151 L 18 # 32 CI 73 SC 73.9.1.3 P 518 L 3 # 34 Ran, Adee Intel Ran, Adee Intel Comment Type Т Comment Status A bucket Comment Type E Comment Status A bucket Definition of first rx lpi active is related to figure 82-19. There is no state RX LPI ACTIVE Incorrect cross reference: link status is set in Arbitration state diagram, 73-12. in this diagram. SugaestedRemedy SuggestedRemedy Change reference from 73-11 to 73-12. Change RX LPI ACTIVE to RX ACTIVE. Response Response Status C ACCEPT. Add cross reference to diagram (figure 82-19). Response Response Status C P 378 Cl 30 SC 30.3.1.1.1 L 18 ACCEPT IN PRINCIPLE. Ran. Adee Intel Change: Comment Type E Comment Status R bucket "... the receiver is in state RX\_LPI\_ACTIVE in the LPI receive state diagram and Period and semicolon at end of sentence. Is this intentional?  $R_TYPE(rx\_coded) = LI ...$ " to: "... the receiver is in state RX ACTIVE in the LPI receive state diagram (see Figure 82-19) Occurs multiple times in this clause. and R TYPE(rx coded) = LI ... ' SuggestedRemedy CI 82 SC 82.2.19.3.1 P 166 L 21 # 33 Delete the semicolons in all such cases. Ran, Adee Intel Response Response Status C Comment Type T Comment Status A REJECT. Comment is related to figure 82-19-LPI Receive state diagram. The semicolons are intentional. rx down count is used in the diagram, but is not defined anywhere in this clause. It is defined in clause 91 with reference to 82.2.9. The management objects in 30.3 through 30.3.7 are based on the template requirements of ISO/IEC 10165-4:1991 (the semicolon is part of the template). SuggestedRemedy Add definition in 82.2.19.2.2 (based on the one in clause 91): CI 53 SC 53.8.2.1 P 541 L 9 # 36 Ran. Adee Intel rx down count The value that results from the bit-wise exclusive-OR of the Count Down (CD3) byte and Comment Status A Comment Type E bucket the M0 byte of the current received Rapid Alignment Marker (see 82.2.9). Stray space in exponent "1 2". Response Response Status C SuggestedRemedy ACCEPT. Delete the space. Response Response Status C

ACCEPT.

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

Cl 72 SC 72.10.4.4 P 499 L 22 # 37 C/ 30 P 487 L 44 # 40 SC 30.12.1.1.1 Healey, Adam Healey, Adam Avago Technologies Avago Technologies Comment Type Т Comment Status A bucket Comment Type Т Comment Status A Implement revision request #1267: The EEE TLV and EEE Fast Wake TLV are missing from the definition of the bit string for Status and Support content in the PICS table for CF7 are blank. the aLldpXdot3PortConfigTLVsTxEnable attribute. The grammar can also be improved. SuggestedRemedy SuggestedRemedy Add the appropriate Status and Support content for item CF7. Change the contents "BEHAVIOR DEFINED AS" section to the following. Change status to "M" for Mandatory. Chage support to "Yes []" "A read-write string of 6 bits indicating, for each of the IEEE 802.3 optional LLDP TLVs, if transmit is enabled on the local LLDP agent by the network management. A "1" in the Response Response Status C bitstring indicates transmit of the TLV is enabled. "0" indicates transmit of the TLV is ACCEPT. disabled. The value of this attribute is preserved across reset including loss of power. CI 72 SC 72.10.4.5 # 38 The first bit indicates if the MAC/PHY configuration/status TLV transmit is enabled, the P 501 L 45 second bit indicates if the Power via MDI TLV transmit is enabled, the third bit indicates if Healey, Adam Avago Technologies the deprecated Link Aggregation TLV transmit is enabled, the fourth bit indicates if the Comment Status A Comment Type T bucket Maximum Frame Size TLV transmit is enabled, the fifth bit indicates if the EEE TLV is enabled, and the sixth bit indicates if the EEE Fast Wake TLV is enabled." Implement revision request #1268: Status and Support content in the PICS table for TC10 are blank. Response Response Status C SuggestedRemedy ACCEPT. Add the appropriate Status and Support content for item TC10. Change status to "M" for Mandatory. C/ 30 SC 30.2.5 P 337 L 37 # 41 Chage support to "Yes []" Healey, Adam Avago Technologies Response Response Status C Comment Type T Comment Status A ACCEPT. In Table 30-7, the following attributes are not assigned to any package. aLldpXdot3RemPowerType Cl 72 SC 72.10.4.5 P **502** # 39 L 20 aLldpXdot3RemPowerSource aLldpXdot3RemPowerPriority Healey, Adam Avago Technologies aLldpXdot3RemPDRequestedPowerValue Comment Type Т Comment Status A bucket aLldpXdot3RemPSEAllocatedPowerValue Implement revision request #1269: SuggestedRemedy Status and Support content in the PICS table for TC19 are blank. Assign the attributes (mark with an X) to the "LLDP Power via MDI Remote Package". SuggestedRemedy Remove the extraneous shading from the "LLDP Power via MDI Remote Package" column. Add the appropriate Status and Support content for item TC19. Response Response Status C Change status to "M" for Mandatory. ACCEPT. Chage support to "Yes []" Response Status C Response

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

ACCEPT.

Comment ID 41

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Comment Type E Comment Status A bucket

There is an incorrect reference. In order to characterize the insertion loss of the channel the test references shown in Figure 85-8 are needed.

SuggestedRemedy

Change Figure 85-7 to Figure 85-8.

Response Status C

ACCEPT.

Cl 46 SC 46.1.7.3 P7 L 42 # 43

Brown, Matt AppliedMicro

Comment Type E Comment Status A bucket

Reference to Figure 46-11 should be Figure 46-13

SuggestedRemedy

Change "Figure 46-11" to "Figure 46-13". Same change is required on page 327 line 42.

Response Status C

ACCEPT IN PRINCIPLE.

These two cross references pointed to the "Transmit LPI state diagram" in the P802.3az amendment.

Change "Figure 46-11" to "Figure 46-13" on Page 312, line 7 and Page 327, line 42.

Cl 80 SC 80.1.2 P79 L19 # 44

Kolesar, Paul CommScope

Comment Type ER Comment Status R

The stated reach of "up to at least 100 m" fails to acknowledge the 150 m capability of this PHY on OM4 cabling. Although considered officially an "engineered solution" due to a reduction in allowed connection insertion loss from 1.5 dB to 1.0 dB, this type of special restriction did not impose limiting the stated reach of 40GBASE-ER4 or 100GBASE-ER4 which are rated to 30 km without special engineering, but are stated in this table to support 40 km.

#### SuggestedRemedy

There are two choices to removing the inequitable handling of stated reaches in this table. The first is preferred.

- 1. Change 100 m to 150 m on line 19.
- 2. Change 40 km to 30 km on lines 27 and 53.

Response Status W

REJECT.

This topic was discussed in the P802.3ba project after the change was made to increase the reach of 40GBASE-SR4 over OM4 to 150 m. The consensus decision made at that time was to keep the reach in the description of 40GBASE-SR4 at 100 m. Making a change in the description of 40GBASE-SR4 or 100GBASE-ER4 now when there has been no change in the specifications would cause confusion and be counter to the consensus decision of the Task Force and Working Group when the standard was approved.

See also comment #45.

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

Cl 80 SC 80.1.2 P79 L 45 # 45 Kolesar, Paul CommScope

Comment Status R

Commod

ER

The stated reach of "up to at least 100 m" fails to acknowledge the 150 m capability of 100GBASE-SR10 on OM4 cabling. Although considered officially an "engineered solution" due to a reduction in allowed connection insertion loss from 1.5 dB to 1.0 dB, this type of special restriction did not impose limiting the stated reach of 40GBASE-ER4 or 100GBASE-ER4 which are rated to 30 km without special engineering, but are stated in this table to support 40 km.

#### SuggestedRemedy

Comment Type

There are two choices to removing the inequitable handling of stated reaches in this table. The first is preferred.

- 1. Change 100 m to 150 m on line 45.
- 2. Change 40 km to 30 km on lines 27 and 53.

Response Status W

REJECT.

This topic was discussed in the P802.3ba project after the change was made to increase the reach of 100GBASE-SR10 over OM4 to 150 m. The consensus decision made at that time was to keep the reach in the description of 100GBASE-SR10 at 100 m. Making a change in the description of 100GBASE-SR10 or 100GBASE-ER4 now when there has been no change in the specifications would cause confusion and be counter to the consensus decision of the Task Force and Working Group when the standard was approved.

See also comment #44.

Cl 73 SC 73.7.7.1 P 515 L 41 # 46

Marris, Arthur Cadence Design Syst

riarris, Arthur Cadence Design Syst

Comment Type ER Comment Status A bucket

Table and Figure numbers incorrect in Clause 73

SuggestedRemedy

Change number of Figure 73-8 to Figure 73-7 and Table 73-7 to Table 73-5 and chack subsequent numbering is correct

Response Status W

ACCEPT.

Verify all table and figure numbers in Clause 73.

Cl 25 SC 25.5.1 P 232 L 8 # 47

Marris, Arthur Cadence Design Syst

Comment Type T Comment Status A

Address maintenace request 1270

SuggestedRemedy

In figure 35-3 replace '(link\_status not OK) + (tx\_quiet = TRUE) \* gotNRZbit.indicate)' entry into ZERO V state with:

tx\_quiet = TRUE

In figure 25-4 make similar change to:

rx quiet = TRUE

Response Status C

ACCEPT IN PRINCIPLE.

Delete the definition of the variable "link status" from 25.5.1.1.1.

In Figure 25-3, replace "link\_status != OK + tx\_quiet = TRUE \*gotNRZbit.indicate" with "tx\_quiet = TRUE".

Delete the definition of the variable "link status" from 25.5.2.1.1.

In Figure 25-4, replace "link\_status! = OK + rx\_quiet = TRUE" with "rx\_quiet = TRUE".

Cl 24 SC 24.2.4.4.4 P 200 L 7 # 48

Marris, Arthur Cadence Design Syst

Comment Type TR Comment Status R

The problem occurs when the MAC de-asserts LPI\_Req, causing the FSM to go from "RX SLEEP" to "WAIT IDLE".

While it is in "WAIT\_IDLE", and before lpi\_rx\_ti\_timer\_done, the MAC regrets, and reassets LPI Req.

The FSM will go back to "RX\_SLEEP".

The problem is that the <code>lpi\_rx\_ts\_timer</code> is not restarted on this transition, since it is only restarted on "START RX SLEEP".

From this points the lpi\_rx\_ts\_timer continues incrementing from the point it was due to the previous LPI request.

It will cause the lpi\_rx\_ts\_timer to expire prematurely, and the FSM will go to "RX\_LPI\_LINK\_FAIL". This fails the link with no justification.

#### SuggestedRemedy

Make state transition go to START\_RX\_SLEEP rather than RX\_SLEEP

Response Status W

REJECT.

Per 22.2.2.6, LPI signaling is sent when the transmit LPI state diagram (Figure 22-23) is in state LPI ASSERTED.

When the LPI client sets LPI\_REQUEST to DEASSERT, the state LPI\_ASSERTED may not be re-entered until the expiration of tw\_timer. The terminal count of tw\_timer is Tw\_sys\_tx which must be at least 30 microseconds. Since the terminal count for lpi\_rx\_ti\_timer is 0.8 to 0.9 microseconds, even a fickle LPI client cannot cause LPI signaling to be sent before lpi\_rx\_ti\_timer\_done becomes true. The scenario described in the comment cannot occur.

The purpose of the WAIT\_IDLE state is to account for the possibility that IDLES will be falsely detected during the transition to a quiescent state (but before signal\_status is deasserted). If this is the case, then it is likely a transient condition and some "non-IDLES" signal will subsequently be detected. At this point the state diagram returns to the RX\_SLEEP state and waits for lpi\_rx\_ts\_time\_done. It is inappropriate to reset the lpi\_rx\_ts\_timer since this scenario does not represent the detection to two consecutive and independent sleep states (it is the same sleep state).

Comment Type T Comment Status A

This change is turning a simple editorial mis-reference into a technical error. The test method for verification of the input jitter is NOT defined in 48B.3.

48B.3 is a tutorial, not a specification. It offers at least three methods, and for BERT scan, describes a curve fitting method for RJrms, DJ and TJ. The obvious correct reference is 53.8.1, same as a few lines above, which specifies ONE method, with a bathtub mask: "The DJ and RJ values do not need to be individually met, the required mask is defined by the formulas above." not a curve fit.

#### SuggestedRemedy

Either change "48B.3" to "53.8.1", which I expects represents what was meant when the clause was written:

Or:

Delete: "The test method for verification of the input jitter is defined in 48B.3" (beginning of last paragraph of 53.8.2.1), and insert at the beginning of 53.8.2.1: "The test method for verification of the input jitter is the same as the one defined in 53.8.1, with the following requirements".

Response Status C

ACCEPT IN PRINCIPLE.

Change "48B.3" to "53.8.1"

See also, comment #24

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

Comment ID 49

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C/ 00 SC 0 Ρ # 50 C/ 93A SC 93A.1.5 P 689 L 17 Hidaka, Yasuo Fujitsu Laboratories of **IBM** Ewen, John Comment Type Ε Comment Status A Comment Type E Comment Status A The table of protocol summary is incomplete in the following clauses, because the Variable of integration in equation 93A-24 is incorrect. horizontal borders before "Date of Statement" is thin. SuggestedRemedy 46.6.2.2 Change "dt" to "df" 57.7.2.2 81.5.2.2 Response Response Status C 82.7.2.2 ACCEPT. 83.7.2.2 84.11.2.2 86.11.2.2 87.13.2.2 88.12.2.2 89.11.2.2 95.12.2.2 83A.7.2.2 83B.4.2.2 83D.6.2.2 83E.5.2.2 86A.8.2.2 SuggestedRemedy Make the horizontal borders thick, or remove the raw of white space. Response Response Status C ACCEPT IN PRINCIPLE. Change the ruling at the bottom of the "Have any Exception items been required?" and the top of the "Date of Statement" rows to "Thin" for each instance listed (they are currently "Very Thin"). This is consistent with the style used in IEEE 802.1 and IEEE 802.11. C/ 99 SC P 2 L 6 # 51 Hidaka, Yasuo Fuiitsu Laboratories of Comment Type T Comment Status A bucket As Physical Layer Devices, only cables are listed, and electrical backplane is not listed. SuggestedRemedy Add ", or electrical backplanes" after ", or fiber optic cables". Response Response Status C

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

ACCEPT.

# 52

bucket

Cl **00** SC P **391** L **7** # 53

Grow, Robert RMG Consulting

Comment Type TR Comment Status A

The standard needs to include reference to Company ID (CID) with many references to OUI updated to be OUI or CID. This does not apply to the deprecated OUI-22 uses; or variable names, MIB objects, etc., but may be required in the explanatory text to those and other similar items. Implementation of these changes may avoid RAC comments during Sponsor ballot.

#### SuggestedRemedy

The following are identified changes to Sections 1 through 4. Recommended changes to other Sections may follow in this ballot, before the BRC meeting, or in recirculation ballots.

- 1.4 Replace definition with: Organizationally Unique Identifier (OUI): A 24-bit unique number that defines a manufacturer or other organization. (OUI and CID are non-overlapping and therefore mutually unique.)
- 1.4 Insert definition: Company ID (CID): A 24-bit unique number that defines a manufacturer or other organization. (OUI and CID are non-overlapping and therefore mutually unique.)
- 1.5 Insert acronym: CID Company ID [There already is an expansion for CID, Consecutive Identical Digit, this would be the second but context should be sufficient to distinguish.]
- 28C.6 Replace most occurrences of OUI with OUI or CID. First paragraph, all but line 16. Second paragraph, change "OUI value" to "OUI/CID value", change "OUI" in Figure 28C-1 to OUI/CID"
- 28C.13, I.6 Replace OUI with OUI or CID twice.

Table 31A-8 - Line 50 and 53, replace OUI with OUI or CID

31C.2 – List item d) Change to read: ... Extension Opcode and the Organizationally Unique Identifier (OUI) or Company ID (CID) ... Footnote 23, replace "OUIs" with "OUIs and CIDs", UPDATE REFERENCE TO CURRENT Std 802.

45 PICS. MM25, MM42, WM22, WM40, RM22, RM28, AM36, PM21, PM25, DM20, DM24, VS5, VS7, VSB5, VSB7 — Replace OUI with 22-bits of OUI

Response Status W

ACCEPT IN PRINCIPLE.

Insert definition for Company Identifier (CID) and modify the definition for Organizationally Unique Identifier (OUI) in 1.4.305. The IEEE P802.3 (IEEE 802.3bx) Task Force chair will coordinate with the RAC chair to compose appropriate definitions.

In 1.5, change the expansion of CID to be "Company Identifier (in Clause 50, Consecutive

Identical Digit)".

28C.6 – Replace occurrences of "OUI" with "OUI or CID" with the exception of the phrase "OUI Tagged Message". In the second paragraph, change "OUI value" to "OUI/CID value". In Figure 28C-1, change "OUI" to OUI/CID".

28C.13, line 6 - Replace "OUI" with "OUI or CID" twice.

Table 31A-8, lines 50 and 53 - Replace "OUI" with "OUI or CID".

31C.2 – List item d) Change to read: "...Extension Opcode and the Organizationally Unique Identifier (OUI) or Company Identifier (CID)...". Footnote 23, replace "OUIs" with "OUIs and CIDs". Update reference to current IEEE Std 802.

45 PICS MM25, MM42, WM22, WM40, RM22, RM28, AM36, PM21, PM25, DM20, DM24, VS5, VS7, VSB5, VSB7 - Replace "OUI" with "22 bits of OUI".

57.4.1 - Change the last paragraph on page 70 to the following.

"The bit/octet ordering of any Organizationally Unique Identifier (OUI) or Company Identifier (CID) field within an OAMPDU is identical to the bit/octet ordering of the OUI portion of the DA/SA. Additional detail defining the format of OUIs and CIDs can be found in IEEE Std 802-2014."

Figure 57-10 - Replace "OUI" with "OUI/CID".

57.4.3.6 - Replace "Organizationally Unique Identifier (OUI)" with "Organizationally Unique Identifier (OUI) or Company Identifier (CID)". Replace "OUI value" with "OUI or CID value". In Figure 57-15, replace "OUI" with "OUI/CID".

57.5.2.1 item h) - Change to "OUI/CID. This three-octet field contains the 24-bit Organizationally Unique Identifier or Company Identifier and shall be as shown in Table 57–10." In Table 57-10, replace "OUI" with "OUI/CID", replace "Organizationally Unique Identifier" with "Organizationally Unique Identifier or Company Identifier", and in footnote a) replace "OUIs" with "OUIs or CIDs" in two instances.

57.5.2.3 item c) - Change to "Organizationally Unique Identifier or Company ID. This three-octet field shall contain the 24-bit Organizationally Unique Identifier (OUI) or Company ID (CID).

57 PICS LIT1, LIT10, OIT1, OIT2 - Replace "OUI" with "OUI/CID".

73.11.4.9 - Replace instances of "OUI" in the Value/Comment column with "OUI or CID"

57B.1.1, item j) - Change item j) to the following.

"Organizationally Unique Identifier (OUI) or Company Identifier (CID). The OUI/CID field contains the OUI or CID to identify the Organization Specific Data. The bit/octet ordering of the OUI/CID field within an OSSPDU is identical to the bit/octet ordering of the OUI portion of the DA/SA."

57B.1.1, item k) - Replace "OUI" with "OUI/CID".

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

Comment ID 53

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73A.2 - Replace occurrences of "OUI" with "OUI or CID" with the exception of the phrase "OUI Tagged Message". In the second paragraph, change "OUI value" to "OUI/CID value". In Figure 73A-1, change "OUI" to OUI/CID"

73A.3 - Replace "OUI" with "device identifier".

Comment Type E Comment Status A bucket

Just a reminder to update year to 2015 on next draft. Congratulations on getting them right for this draft!

SuggestedRemedy

Update year on copyrights on page 1 and 2 Update date in header as usual

Response Status C

ACCEPT.

C/ 99 SC P3 L # 55

Grow, Robert RMG Consulting

Comment Type ER Comment Status A bucket

There appears to be disagreement between the draft, and the style manual. (IEEE Std 802.3-2012 appears to agree with the style manual.

SuggestedRemedy

Fix order of front matter components, perhaps using 2012 as a base. Introduction follows Participants, Notice to Users stuff precedes both.

Response Status W

ACCEPT IN PRINCIPLE.

Reorder the frontmatter components to be consistent with the 2014 style manual.

Also update the list of historical participants.

C/ 22 SC 22.2.4.4 P74 L 26 # 56

Grow, Robert RMG Consulting

Comment Type TR Comment Status A

Looks like there is p802.3z text that we missed updating with p802.3ae. I don't think we have any clause 22 management for speeds higher than 1000Mb/s. The text "all PHYs capable of operation at speeds above 100 Mb/s" is not correct.

SuggestedRemedy

Change read "all PHYs capable of operation at 1000 Mb/s." Though also consider what is being done for 1000BASE-T1 and GEPOF, as the word "all" may not be appropriate to include based on the current 1000BASE-T1 draft.

Response Response Status W

ACCEPT IN PRINCIPLE.

Change the first sentence of the first paragraph to the following. "The Extended Status register is implemented for 1000BASE-T PHYs and all PHYs using the 1000BASE-X signaling specifications."

Future amendments defining 1000BASE-T1 and GEPOF may modify this subclause if necessary.

C/ 30 SC 30.5.1.1.2 P 432 L 13 # 57

Grow, Robert RMG Consulting

Comment Type ER Comment Status A

There appears to be Text from p802.3z that was not updated by p802.3ab. Clause 40 was written some time ago, to be specified is not correct.

SuggestedRemedy

Change "to be specified" to "as specified"

Response Status W

ACCEPT.

Note that there are three instances: 1000BASE-T, 1000BASE-THD, and 1000BASE-TFD.

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

Comment ID 57

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Cl 45 SC P L # 58

Grow, Robert RMG Consulting

Comment Type ER Comment Status A

We haven't done a good job on consistency of text for Reserved bits/registers in clause 45. For example:

Ignore on read, Ignore when read, Value always 0, Value always 0, writes ignored. This continues in the PICS:

Operation is not affected by writes to reserved and unsupported bits, Reserved and unsupported bits return a value of zero.

It appears that text has been written from two perspectives: implementation where ignore write to the bit, and report as 0 when read; and management where the bit is to be written as 0, and ignored when read.

SuggestedRemedy

Pick one perspective and make text consistent across the clause.

Response Status W

ACCEPT IN PRINCIPLE.

Change to:

Description column:

"Value always 0"

R/W column:

"RO"

Cl 33 SC 33.1.4.1 P610 L1 # 59

Thompson, Geoff GraCaSI S.A.

Comment Type TR Comment Status R

(through line 6, i.e. the first paragraph of 33.1.4.1)

Simplify the first paragraph by updating the reference to the 2002 version of 11801 which incorporates the additional requirement.

SuggestedRemedy

33.1.4.1 Cabling requirement

Operation requires Class D, or better, cabling as specified in ISO/IEC 11801:2002. These requirements are also met by Category 5e or better cable and components as specified in ANSI/TIA-568-C.2; or Category 5 cable and components as specified in ANSI/TIA/EIA-568-A.

The second paragraph of this clause can remain unchanged unless the referenced cabling documents already cover this material.

Response Status C

REJECT.

This topic is better addressed by the IEEE P802.3bt amendment project.

The IEEE 802.3 Maintenance Task Force chair will submit this comment (referring to revision request #1271) to the IEEE P802.3bt Task Force so that it may be considered and appropriate changes made to that draft amendment.

No changes will be made to the P802.3 revision draft.

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

P802.3bt

Cl 33 SC 33.1.4.2 P 610 L 14 # 60 Cl 83 SC 83.7.3 P 197 L 43 # 62 Thompson, Geoff GraCaSI S.A. Slavick, Jeff Avago Technologies Comment Type TR Comment Status R P802.3bt Comment Type E Comment Status A bucket (through line 28, i.e. the entirety of 33.1.4.2) The alignment of the O in the status column for the \*KRCR row has a different alignment within it's cell to the rest of the table. The first sentence should be deleted. It would be appropriately handled by updating the SuggestedRemedy reference to 11801 to the 2002 edition which precisely matches this requirement with the Make the Status cell for \*KRCR have the same vertical and horizontal alignment as the following text: rest of the table (LEFT, TOP instead of MID, MID) 6.4.8 Direct current (d.c.) resistance unbalance Response Response Status C The d.c. resistance unbalance between the two conductors within each pair of a channel ACCEPT IN PRINCIPLE. shall not exceed 3 % for all classes. This shall be achieved by design. Fix the alignment in both the Status and Support columns. The remainder of 33.1.4.2 should be deleted as it is purely informative/tutorial material on cabling parameter measurement. It is more appropriate to the referenced cabling C/ 84 SC 84.11.3 P 211 L 28 # 63 documentation. If 802.3 strongly feels that it needs to be retained in our document then it should be moved to an informative annex. Slavick, Jeff Avago Technologies (Ref: 2014 Style Manual, cl. 10.1, last paragraph) Comment Type E Comment Status A bucket SuggestedRemedy The alignment of the O in the status column for the \*LPI row has a different alignment With both of these actions being taken, the entire sub-clause should be deleted. within it's cell to the rest of the table. SuggestedRemedy Response Response Status C Make the Status cell for \*LPI have the same vertical and horizontal alignment as the rest of REJECT. the table (LEFT, TOP instead of MID, MID) This topic is better addressed by the IEEE P802.3bt amendment project. Response Response Status C ACCEPT IN PRINCIPLE. The IEEE 802.3 Maintenance Task Force chair will submit this comment (referring to revision request #1271) to the IEEE P802.3bt Task Force so that it may be considered and Fix the alignment in both the Status and Support columns. appropriate changes made to that draft amendment. C/ 83A SC 83A.7.3 P 587 L 16 # 64 No changes will be made to the P802.3 revision draft. Slavick, Jeff Avago Technologies Cl 82 SC 82.2.19.2.2 P 149 L 1 # 61 Comment Type Comment Status A bucket Avago Technologies Slavick, Jeff The alignment of the O in the status column for the \*LPI row has a different alignment Comment Type E Comment Status A bucket within it's cell to the rest of the table. The NOTE associated with align status is on the next page SuggestedRemedy Make the Status cell for \*LPI have the same vertical and horizontal alignment as the rest of SuggestedRemedy the table (LEFT, TOP instead of MID, MID) Move the NOTE associated with align\_status to be on the same page as the variable

Response

ACCEPT.

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

definition for align\_status

Response Status C

Response

ACCEPT.

Comment ID 64

Response Status C

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Cl 91 SC 91.5.3.3 P 383 L 49 # 65
Slavick, Jeff Avago Technologies

Comment Type TR Comment Status A

When error marking an uncorreted codeword the specification intends to mark all packets that contain data within the codeword as bad. When the codeword begins with Alignment markers the first set of data in the codeword is contained in the 6th transcoded block. Marking currently occurs on the 1,3,5,7,...etc transcoded blocks, so we skip the 6th. This allows for a some bad data to potentially not be marked.

SuggestedRemedy

Change: In addition, it shall ensure rx\_coded\_3<1:0> corresponding to the last (20th) 257-bit block in the codeword is set to 11.

To: In addition, it shall ensure rx\_coded\_0<1:0> corresponding to the 6th 257-bit block and rx\_coded\_3<1:0> corresponding to the last (20th) 257-bit block in the codeword is set to 11.

Response Status W

ACCEPT.

Comment Type TR Comment Status A

The definition for amps\_lock<x> references the deskewed and re-ordered FEC lane instead of the service interface lane. Which is different then how ba did it, and means when looking at amps\_lock<0> you also have to look at the FEC lane mapping register to determine which physical lane is locked.

amps\_lock<x> Boolean variable that is set to true when the receiver has detected the location of the alignment marker payload sequence for a given FEC lane where x = 0:3.

SuggestedRemedy

Change the definition of amps lock<x> to read:

Boolean variable that is set to true when the receiver has detected the location of the alignment marker payload sequence for a given lane on the PMA service interface where x = 0:3.

Response Status W

ACCEPT.

Cl 91 SC 91.5.4.2.1 P 389 L 27 # 67
Slavick, Jeff Avago Technologies

Comment Type TR Comment Status A

The AM lock state machines operate on a PMA service lane not a FEC lane. Once locked it's assigned a FEC lane number based on the data stream being received.

SuggestedRemedy

Change first pcsl definition to read:

A variable that holds the PCS lane number that corresponds to the first alignment marker payload that is recognized on a given lane of the PMA service interface. It is compared to the PCS lane number corresponding to the second alignment marker payload that is tested.

Change current\_pcsl definition to read:

A variable that holds the PCS lane number corresponding to the current alignment marker payload that is recognized on a given lane of the PMA service interface. It is compared to the variable first\_pscl to confirm that the location of the alignment marker payload sequence has been detected.

Response Status W

ACCEPT IN PRINCIPLE.

Change "FEC lane" to "lane of the PMA service interface" in two places as per the Suggested Remedy and also change "first\_pscl" to "first\_pcsl" in current\_pcsl definition.

This results in the definitions becoming:

current pcsl definition:

A variable that holds the PCS lane number corresponding to the current alignment marker payload that is recognized on a given lane of the PMA service interface. It is compared to the variable first\_pcsl to confirm that the location of the alignment marker payload sequence has been detected.

first pcsl definition:

A variable that holds the PCS lane number that corresponds to the first alignment marker payload that is recognized on a given lane of the PMA service interface. It is compared to the PCS lane number corresponding to the second alignment marker payload that is tested.

Cl 11 SC 11 P 274 L 4 # [68]
Thaler. Pat Broadcom

Comment Type T Comment Status R

IEEE 802.3 is carrying a quite a few Clauses that aren't recommended for new instaltions and are not maintained. In some cases this has been for over 10 years. Perhaps they should be deleted.

SuggestedRemedy

Consider removing the Clauses that have been marked as not recommended for new installations - at least the ones that entered that state over a decade ago.

Response Status C

REJECT.

There is no harm in continuing to carry clauses that are not recommended for new installations. However, errors may be introduced into the draft in the process of removing such clauses and this could jeopardize the revision project schedule.

This action may be better suited to targeted maintenance projects where all of the consequential changes can be carefully considered without gating amendment projects.

Cl 01 SC 1.4.305 P 66 L 24 # 69
Thaler, Pat Broadcom

Comment Type TR Comment Status A

Now that the RAC has defined Company ID (CID) that should be included in the definitions. Places where OUI should be checked to see which instances should become OUI or CID. For example, 28C.6 which defines the OUI tag code should now allow a Company ID.

The RAC uses the acronym CID for Company ID but IEEE 802.3 already uses CID for another purpose. That acronyn seems to only be used in Clause 50. Can we do something to indicate that use is only for Clause 50 and add a CID acronym for Company ID?

SuggestedRemedy

Add a definition for Company ID and add text to allow Company ID use for non-address uses of the OUI (except in the xMII uses where the OUI is squeezed into a 22 bit field by dropping the I/G and U/L bits).

Consider adding CID to the acronym list.

Response Response Status W

ACCEPT IN PRINCIPLE.

See #53.

Cl 30 SC 30.12.1.1.1

P **487** 

L 44

# <u>7</u>0

Thaler, Pat Broadcom

Comment Type TR Comment Status A

The TLVs added for EEE should have bits in the bit string to enable their transmission.

SuggestedRemedy

Add the bits for the EEE TLVs.

Response Status C

ACCEPT IN PRINCIPLE.

See comment #40.

Cl 72 SC 72.6.10.4.2 P482 L15 # [

Thaler, Pat Broadcom

Comment Type TR Comment Status A

The definition of remote\_rx\_ready says that it is set false when SEND\_TRAINING STATE is entered, but it isn't

SuggestedRemedy

Add remoter\_rx\_ready<= false to the SEND\_TRAINING state actions.

Response Status C

ACCEPT IN PRINCIPLE.

Add remote\_rx\_ready<= false to the SEND\_TRAINING state actions.

[There is a typo in the suggested remedy.]

CI 67 SC 67.1 P388 L25 # 72

Booth, Brad Microsoft

Comment Type E Comment Status A bucket

In Table 67-1, the number 10000 could use a delimiter to help indicate that it is ten thousand and not one thousand.

SuggestedRemedy

Insert an em-space between 10 and 000. Repeat for all instances in the table.

Response Status C

ACCEPT IN PRINCIPLE.

Change "10000" to "10,000" using appropriate delimiter of 1000s.

C/ 69B SC 69B.4.2 L 22 # 73 CI 28C SC 28C.13 P723 # 76 P 809 L 4 Booth, Brad McClellan, Brett Marvell Semiconducto Microsoft Comment Type Ε Comment Status A bucket Comment Type E Comment Status A bucket While the editor's note is to be removed prior to publication, it incorrectly references figure fix typos 69-2 instead of 69B-2. SuggestedRemedy SuggestedRemedy change "meassages" to "messages" Make correct to editor's note for 69B-2 and 69B-5. change "userdefined" to "user-defined" Response Response Status C Response Response Status C ACCEPT. ACCEPT. C/ 92A SC 92A.4 P 679 L 33 CI 55 SC 55.3.6.2.2 P 637 L 34 Diminico, Christopher MC Communications McClellan, Brett Marvell Semiconducto Comment Type T Comment Status A bucket Comment Type Comment Status A bucket Frequency incorrect The indentation for fr sigtype does not match other variables. SuggestedRemedy SugaestedRemedy Change 12.9806 12.8906 indent fr\_sigtype and description text, delete unnecessary line breaks. Response Response Response Status C Response Status C ACCEPT. ACCEPT IN PRINCIPLE. C/ 91 Indent fr\_sigtype and its definition as per the other variables. SC 91.5.4.2.1 P 390 L 20 # 75 AppliedMicro Brown, Matt C/ 48B SC 48B.1.1 P 739 L 27 # 78 Comment Status A Comment Type E McClellan, Brett Marvell Semiconducto The FEC server sublaver is always the PMA. Throughout the rest of this Clause the server Comment Type Ε Comment Status A bucket interface references use "PMA:" instead of the generic "inst:". Missing space. For clarity, "inst:IS SIGNAL indication(SIGNAL OK)" should be "PMA:IS SIGNAL indication(SIGNAL OK)". SuggestedRemedy SuggestedRemedy SuggestedRemedy: change "Figure 48B-1considers" to "Figure 48B-1 considers" Change: "inst:IS SIGNAL.indication(SIGNAL OK)" Response Response Status C To: "PMA:IS SIGNAL.indication(SIGNAL OK)" ACCEPT. Response Response Status C

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

ACCEPT.

Comment ID 78

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Cl 55 SC 55.3.2.7 P 662 L 6 # 79

Zimmerman, George CME Consulting

Comment Type E Comment Status A

The text uses a term "complete quiet-refresh cycle", whereas the text in 55.3.5.3 says this is known as a "complete LPI cycle" (and this appears to be the only place the concept is used)

SuggestedRemedy

Replace "complete quiet-refresh cycle" with "complete LPI cycle".

Response Status C

ACCEPT IN PRINCIPLE.

[Subclause reference should be 55.4.2.7.]

[Reference to 55.3.5.3 in the comment should be to 55.3.5.]

Change the beginning of the last sentence of the 55.4.2.7 to the following.

"The function forces a link retrain if a refresh signal is not reliably detected within a moving time window equivalent to 50 complete LPI cycles (nominally equal to 8.192 ms), ..."

Note that 55.3.5 defines a "quiet-refresh cycle" to be a 124 LDPC frame period quiet time plus a 4 LDPC frame period refresh time and defines an "LPI cycle" to be "the time taken to complete a quiet-refresh cycle for all four pairs."

Cl 33 SC 33.1.4.2 P610 L14 # 80

Zimmerman, George CME Consulting

Comment Type E Comment Status R late, P802.3bt

Title "Channel requirement" is misleading, and "channel" is the incorrect term in 802.3 definitions.

Additionally, unbalance requirements should reference appropriate cabling standards such as TSB-184, which now include this information. The material should be moved to an informative annex.

SuggestedRemedy

Use "link section" for "channel" in clause 33.

Replace section with cabling shall confrm to intra-pair unbalance requirements specified in TIA TSB-184 and ANSI/TIA 568-C.2 (add appropriate ISO documents).

Move unbalance requirements in this section to Informative annex either as a new section in 33A or as informative annex 33B.

Response Status C

REJECT.

This topic is better addressed by the IEEE P802.3bt Task Force.

The commenter has committed to submit a revision request on this topic.

No changes will be made to the P802.3 revision draft.

Cl 33 SC 33.2.4.1 P L # 81

Zimmerman, George CME Consulting

Comment Type E Comment Status R late,P802.3bt

"may" indicates an option, "may need" isn't proper standards language.

SuggestedRemedy

replace "may need to have" with "should have".

Response Status C

REJECT.

[This comment is against the note at the end of the subclause.]

The sentence is correct as written.

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

Comment ID 81

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Cl 33 SC 33.2.3 P 616 L 2 # 82 Cl 33 SC 33.3.1 P 642 L 26 # 83 Zimmerman, George CME Consulting CME Consulting Zimmerman, George Comment Type Comment Status R late,P802.3bt Comment Type T Comment Status R late.P802.3bt

The definition of the PI shows an 8 pin modular jack, and assumes that it is the MDI defined for BASE-T PHYs, which is actually the title of the clause, but the clause doesn't actually specify that the 8 pin modular jack is the same MDI specified in the PHY clauses. It also needs to be updated to reflect 4 pair powering.

#### SuggestedRemedy

Insert the following before "A PSE may provide":

"A PSE device provides power over the PI. The PI shall be the 8 pin modular jack as connecting hardware as the MDI for highest common denominator PHY type supported (i.e., 10BASE-T, 100BASE-TX, or 1000BASE-T). Rewrite the first 2 sentences to read:

"A PSE may provide power via one of two valid four-wire connections on the 8 wire connector. In each connection, two conductors associated with a differential twisted pair for the PHY data transmission each carry the same nominal current in both magnitude and polarity."

Response Status C

REJECT.

This topic is better addressed by the IEEE P802.3bt Task Force.

The commenter has committed to submit a revision request on this topic.

No changes will be made to the P802.3 revision draft.

SuggestedRemedy

Change to read: The PD shall withstand any voltage from 0 V to 57 V in the common mode across any combination of pairs, as defined in 33.2.3, at the PI indefinitely without

The statement "The PD shall withstand any voltage from 0V to 57V at the PI indefinitely

across the contacts corresponding to the tip and ring of a differential pair, but is rather

without permanent damage," is incorrect, and misleading. It can't mean applying 0 to 57V

Response Status C

meant to be the common mode voltage.

REJECT.

permanent damage."

This topic is better addressed by the IEEE P802.3bt Task Force.

The commenter has committed to submit a revision request on this topic.

No changes will be made to the P802.3 revision draft.

Cl 55 SC 55.3.4 P 630 L 46 # 84

McClellan, Brett Marvell

Wido Cilian, Dicti

Comment Type E Comment Status A late, bucket

Reference to Table 55-10 is incorrect. The correct table is Table 5-15.

SuggestedRemedy

change "Table 55-10" to "Table 55-15" on page 630 and page 631 inside figure 55-13.

Response Status C

ACCEPT.

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

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late

Cl 55 SC 55.4.5.1 P 665 L 36 # 85 McClellan, Brett Marvell

Comment Type E Comment Status A

Missing a definition for pma\_reset which appears in Fig 55-28.

SuggestedRemedy

Add text ( taken from Clause 40): "pma\_reset

Allows reset of all PMA functions. Values: ON or OFF

Response Status C

ACCEPT IN PRINCIPLE.

Set by:PMA Reset"

Insert the following definition in 55.4.5.1.

"pma\_reset

Allows reset of the PHY Control and Link Monitor state diagrams.

Values: ON or OFF"

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

Comment ID 85

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