C/ 190 P85 L 10 # 1 C/ 104 P53 L27 # 4 SC 190.3.3.6.4 SC 104.9.4.3 Copperopolis; aff'l w/ CME Consulting, Cisco, and An Lewis, Jon **Dell Technologies** Maguire, Valerie Comment Type Ε Comment Status A Comment Type E Comment Status R EΖ The Text SXn[0] indention is different from line 3 text. This occurs on lines 24-25 on page "dc" should be "DC" 85 also. SuggestedRemedy SuggestedRemedy Change "dc" to "DC" in PICS PD21a and PD21b. Change "dc" to "DC", with dc in Adjust the indents to be the same for the text on lines 3-6, 10-3 and 24-25. not sure which strikethrough and DC in underline, in PICS PD21. Bring in PD20 and PD22 and change line(s) are actually the correct indent setting. "dc" to "DC", with dc in strikethrough and DC in underline. Response Response Status C Response Response Status Z **ACCEPTED REJECTED** L4 # 2 This comment was WITHDRAWN by the commenter. C/ 190 SC 190.3.3.7 P88 Maguire, Valerie Copperopolis; aff'l w/ CME Consulting, Cisco, and An C/ 190 SC 190.7.1.3 P131 L41 Comment Type Ε Comment Status A Maguire, Valerie Copperopolis; aff'l w/ CME Consulting, Cisco, and An 0 should be zero and 1 should be one Comment Type Comment Status A EΖ SuggestedRemedy "Maximum link delay" should be "Maximum link segment delay" Replace. " is set to 1 when eee low snr is TRUE and is set to 0 otherwise" SuggestedRemedy Change "Maximum link delay" to "Maximum link segment delay" in the clause 190.7.1.3 with, " is set to one when eee low snr is TRUE and is set to zero otherwise" header and in PICS LMF4. Response Response Status C Response Response Status C **ACCEPTED** ACCEPTED # 3 C/ 104 SC 104.5.7.4 P50 L16 C/ 190 SC 190.3.1 P71 **L50** # 6 Maguire, Valerie Copperopolis; aff'l w/ CME Consulting, Cisco, and An Copperopolis; aff'l w/ CME Consulting, Cisco, and An Maguire, Valerie Comment Type Ε Comment Status A Comment Type т Comment Status A F7 "dc" should be "DC" Double "shall" requirement. I think the mandatory PCS Reset action is already specified on SuggestedRemedy P71, L44. Change "dc" to "DC" in 7 locations in this paragraph. In the 5 locations representing SuggestedRemedy existing text, show "dc" in strikethrough and "DC" in underline. (Note there is a supporting Change "PCS Reset shall set pcs reset = TRUE" to "PCS Reset sets pcs reset = TRUE" comment that adjusts the PICS for the existing text.) and delete PICS PCST4 Response Response Status C Response Response Status C REVISEDEditors do a global change from "DC" to "dc". **ACCEPTED**

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 6

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C/ 190 SC 190.11.4.2.1 P143 **L8** # 7 C/ 30 SC 30.6.2.1.3 P27 L32 # 10 Copperopolis; aff'l w/ CME Consulting, Cisco, and An Graber, Steffen Pepperl+Fuchs SE Maguire, Valerie Comment Type E Comment Status A Comment Type E Comment Status A Management Error in numbering. "INTEGER" should be "BOOLEAN" and link reference is missing. SuggestedRemedy SuggestedRemedy Change "PCST3" to "PCST1" and re-number PICS in this subcaluse. Change "INTEGER" to "BOOLEAN". Add reference "(see 45.2.7.28.2)" at the end of the sentence in line 35. Response Response Status C Response Response Status C **ACCEPTED** REVISEDAccomodated by comments 163 and 119. C/ 30 SC 30.5.1.1.4 P25 L39 # C/ 30 SC 30.6.3.1.1 P29 L26 Graber Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE Comment Type E Comment Status A Comment Type Comment Status A F7 The text "For 10BASE-T1L. 100BASE-T1L. and 100BASE-T1, a link status of OK maps to the enumeration ¶available÷. All other states of link status map to the enumeration ¶not "10BASE-T1L (Clause 190)" need to reference "100BASE-T1L" instead of "10BASE-T1L". available: " seems to be doubled in the paragraph. In the new text "Other encodings map "100BASE-T1L (Clause 146)" needs to reference "(Clause 190)" instead of "(Clause 146)". to the enumeration available." "available" is not set in quotation marks as in other locations SuggestedRemedy within the paragraph. As per comment. SuggestedRemedy Response Response Status C Remove doubled text passage and add quotation marks around "available". ACCEPTED Response Response Status C REVISEDRemove text "For 10BASE-T1L and 100BASE-T1, a link status of OK à C/ 45 SC 45.2.1.236b.1 P33 L41 enumeration "not available" from line 41 to line 42.Add quotation marks around "available" Pepperl+Fuchs SE Graber, Steffen C/ 30 F7 SC 30.6.2 P27 L17 # 9 Comment Type E Comment Status A "transmit/receive level ability (1.2301.13)" should read as "Standard transmit/receive level Graber, Steffen Pepperl+Fuchs SE ability (1.2301.13)" in the headline. "an standard transmit/receive level" should read as "a Comment Type Ε Comment Status R ΕZ standard transmit/receive level" in lines 43 and 45 in the text. Throughout Clauses 30.6.2 and 30.6.3 in several places a "." followed by ";" is used at the SuggestedRemedy end of a sentence. As per comment. SuggestedRemedy Response Response Status C Remove spurious ";" where the ";" follows a "." at the end of a sentence. REVISEDChange the title 45.2.1.236b.1 to "Standard transmit..." Accommodated by Response Response Status C comment 174. REJECTEDCRG Disagrees with commenter. The ".;" while not correct English is the

correct usage in the syntax of Clause 30 management definitions.

Cl 45 SC 45.2.3.75c P37 L16 # 13 Cl 45 SC 45.2.7.30 P40 L37 # 16 Graber, Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE Comment Type Ε Comment Status A Comment Type Ε Comment Status A ΕZ Space before beginning of the last sentence in the paragraph is missing. See also page 38, Should read as "Ó when evaluating the downshift trigger" (adding "the") as in the previous line 5 for a second occurrence. row of the table. SuggestedRemedy SuggestedRemedy As per comment. As per comment. Response Response Status C Response Response Status C **ACCEPTED** ACCEPTED C/ 45 SC 45.2.3.75d.2 P38 L 32 # 14 C/ 45 SC 45.2.7.35 P43 L11 Graber, Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE Comment Type E Comment Status A Editorial Comment Type E Comment Status A EΖ Text seems to be missing as only "um TC receive path data delay." is stated instead of a "Upshift" is everywhere else written without capital letter at the beginning. Suggest to more detailed description. change to "upshift" in the description field. SuggestedRemedy SuggestedRemedy Add original text. As per comment. Response Response Response Status C Response Status C REVISEDDelete P38 L32 through 53 ("um TC" through end of Table 45-302) ACCEPTED SC 104.4.7.3 C/ 45 SC 45.2.7.29.1 P40 L 22 # 15 C/ 104 P49 L46 # 18 Graber, Steffen Pepperl+Fuchs SE Pepperl+Fuchs SE Graber, Steffen Comment Type Ε Comment Status A F7 Comment Type E Comment Status A F7 Font size in "7.529.15" mismatches. The frequencies do not fit to that ones in the adopted text (seems to be a copying error). SuggestedRemedy SuggestedRemedy Please change text in fifth paragraph to: "When measuring the ripple voltages for a Type E Align font size. See also page 43, lines 39 and 43 and page 44, lines 19 and 23. or Type H PSE as specified by Table 10417 item (4b), the voltage observed at the MDI/PI Response Response Status C with the differential probe where f1 = 3.18 kHz a 1% is post-processed with transfer function **ACCEPTED** H2(f) specified in Equation (10413) where f2 = 0.1 MHz a 1%." (for f1, f2 and H2(f) the numbers need to be in subscript). Response Response Status C **ACCEPTED**

C/ 104 SC 104.5.1 P50 L7 # 19 C/ 104 SC 104.9.3 P52 L 54 # 22 Graber, Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE Comment Type E Comment Status A ΕZ Comment Type Ε Comment Status A After "Type E" the comma has accidently been crossed out. Something with the bold lines style in the table went wrong. See also the first lines on page SuggestedRemedy SuggestedRemedy Re-add comma after "Type E". Correct table style. Response Response Status C Response Response Status C **ACCEPTED** REVISEDFix line weight at bottom of "Status" column on P52 to match others (thin) and fix header continuation on P53 (should have thick line under all header items) C/ 104 SC 104.5.1 P 50 L46 # 20 Graber, Steffen Pepperl+Fuchs SE C/ 104 SC 104.9.4.3 P53 L49 Comment Type E Comment Status A ΕZ Graber, Steffen Pepperl+Fuchs SE Instead of "Type G", "Type H" needs to be referenced (see adopted text). Comment Type E Comment Status A F7 SuggestedRemedy Needs to reference "Type G" instead of "Type H", see originally adopted text. Also change "PCTH:M" to "PDTG:M". As per comment. SuggestedRemedy Response Response Status C As per comment. **ACCEPTED** Response Response Status C C/ 104 SC 104.6.2 P51 **L8** # 21 ACCEPTED Graber, Steffen Pepperl+Fuchs SE C/ 104 P53 # 24 SC 104.9.4.3 L 52 Comment Type E Comment Status A ΕZ Graber, Steffen Pepperl+Fuchs SE Type E, Type G and Type H need to be referenced (see originally adopted text). Comment Type E Comment Status A **Fditorial** SuggestedRemedy "PD24 | Type H PD measured ripple voltage post-processing | 104.5.7.4 | With transfer Change "Type F" to "Type G" and "Type G" to "Type H". function H2(f) specified in Equation (10403) where f2=0.1 MHz 1% | PDTH:M | Yes | N/A Response Response Status C I " has been missed from originally adopted text (the used reference there was PD26, but renumbered, as in D2.1 it should now be PD24, "Type E" from original text has been **ACCEPTED** removed, as this was not adopted). The numbers in H2(f) and f2 should be in subscript. SuggestedRemedy As per comment. Response Response Status C **ACCEPTED**

C/ 190 SC 190.1.2 P56 L 56 # 25 C/ 190 P65 L10 # 28 SC 190.2.2.5.1 Graber, Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE Comment Type Е Comment Status A Comment Type E Comment Status A ΕZ Replace "are" in "A 100BASE-T1L PHY are mandated to be capable of operating O" by "is" "." at the end of the sentence is missing. (should be singular). SuggestedRemedy SuggestedRemedy As per comment. As per comment. Response Response Status C Response Response Status C **ACCEPTED** REVISED It should be at p56, line30 and accommdated by comment 76. C/ 190 SC 190.3.1 P72 **L1** C/ 190 SC 190.1.2 P57 L3 # 26 Graber, Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE Comment Type Ε Comment Status A F7 Comment Type E Comment Status A F7 "PCS reset" should be "PCS Reset" with capitalized "R". "ETHERNET LAYERS" should be on top of the Ethernet Laver Stack (in the middle). SuggestedRemedy SuggestedRemedy As per comment. As per comment. Response Response Status C Response Response Status C **ACCEPTED** REVISED Move the label "ETHERNET LAYERS" abve "HIGHER LAYERS" similar to "OSI REFERENCE MODEL LAYERS" as in Figure 146-1 of IEEE 802.3-2022 C/ 190 SC 190.3.3.6.2 P82 L44 Graber, Steffen Pepperl+Fuchs SE C/ 190 SC 190.2.2 P62 # 27 L38 Comment Type Ε Comment Status A Editorial Graber, Steffen Pepperl+Fuchs SE Seems that the elements "+ mi,3a3 + mi,2a2" are missing and need to be added (a is Comment Status A Comment Type E ΕZ equivalent to alpha, "i,3 and i,2 need to be in subscript, the 3 and 2 after alpha need to be The "PHY" is in between the MII and MDI (as before modifying the drawing). Thus it is in superscript). A space should be added after the equation (before "of"). suggested to move the word "PHY" from the right side to below the "PMA SERVICE SuggestedRemedy INTERFACE" position (see original drawing). As per comment. SuggestedRemedy Response Response Status C As per comment. REVISED At P82 L43, change equation to:m {i,7} a^7 + m {i,6}a^6+ à +m {i,1}a + Response Response Status C m {i,0}where {i,n} indicates a subscript i, n and "a" indicates alpha, (the ellipses "à" are REVISED Implement proposed remedy. See Figure 146-2 for guidance. intended to be there, mirroring the parenthetical)See also comment 81.

C/ 190 SC 190.3.5.2 P92 L 15 # 31 C/ 190 P96 L26 # 34 SC 190.3.5.3 Graber, Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE Comment Type Ε Comment Status A Comment Type E Comment Status A PCS The Infofield uses 24 6B-tuples out of 32 in the block (thus 75 % of the LL Frame are used The generation of SXn (disparity correction sign) has been unintentionally changed from up by the 6-tuple, nevertheless the black bar is less is only about 40 % of the width, which D2.0 to D2.1. This change should be converted back to the original equation (with the might be confusing. changes from "*/+" to "AND/OR" and, if intended "otherwise" to "else"). SuggestedRemedy SuggestedRemedy Width of "black marked" Infofield block should be about 75 % of LL frame duration. Change the generation of SXn to: "SXn = 11 if ((DSn > 0 AND RDn-1 > 0) OR ((DSn = 0 OR RDn-1 = 0) AND Sqn = 1)) / +1 else Response Response Status C Response Response Status C **ACCEPTED ACCEPTED** C/ 190 SC 190.3.5.2 P93 L43 # 32 C/ 190 SC 190.3.5.3 P96 # 35 L31 Pepperl+Fuchs SE Graber, Steffen Graber, Steffen Pepperl+Fuchs SE Comment Type Comment Status A Comment Type E Comment Status A F7 "Ó is inverted for the second code-group in the 16th PCS partial frame." would mean, that Paragraph is written in italic, should be normal font style. this is a one time event only happening in the 16th PCS partial frame, but not, as defined for Sdn[1] every 16th PCS partial frame. In comparison with figure 190-7, this would be the SuggestedRemedy 15th, 31th, ... partial frame, as PFC counting starts with 0. As per comment. SuggestedRemedy Response Response Status C Change "Ó is inverted for the second code-group in the 16th PCS partial frame." to "Ó is **ACCEPTED** inverted for the second code-group in every 16th (in the 15th, 31th, Ó) PCS partial frame." Response Response Status C C/ 190 SC 190.3.7.1.2 P101 L10 # 36 REVISEDChange to "à is inverted for the second code-group in the 16th PCS partial Pepperl+Fuchs SE frame." to "à is inverted for the second code-group in every 16th PCS partial frame." Graber, Steffen RS-FEC Comment Type Ε Comment Status A C/ 190 SC 190.3.5.3 P96 L17 # 33 The term "rx coded<8N + 1:8N + 9>" is exceeding the array limits of rx coded<0:8N>. Graber, Steffen Pepperl+Fuchs SE Likely "rx coded<8n + 1:8n + 8> with n = 0 to 7" is meant (N is either 2 or 8, while n could be a an incrementing variable, 8 * 8 + 9 would be 65 > 64 in a 0 to 64 (65 bit) array starting F7 Comment Status A Comment Type Ε from 0). Training uses PAM2. SuggestedRemedy SuggestedRemedy Change "rx coded<8N + 1:8N + 9>" to "rx coded<8n + 1:8n + 8> with n = 0 to 2 (without Change "PAM3" to "PAM2". RS-FEC enabled) or n = 0 to 7 (with RS-FEC enabled)". Response Response Status C Response Response Status C **ACCEPTED** REVISED Accomodated by comment 92.

C/ 190 SC 190.3.7.1.2 P101 L 13 # 37 C/ 190 SC 190.4.9.1.2 P116 L33 # 40 Graber, Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE ΕZ Comment Type Е Comment Status A Comment Type Ε Comment Status A ΕZ "2 6-bit" should read as "two 6-bit". 11.52 ms should be written in one line without line break between number and unit. SuggestedRemedy SuggestedRemedy As per comment. As per comment. Response Response Status C Response Response Status C **ACCEPTED ACCEPTED** P103 # 38 P123 C/ 190 SC 190.3.7.1.3 L 22 C/ 190 SC 190.5.3 **L**5 Graber, Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE Comment Type E Comment Status A F7 Comment Type E Comment Status A F7 "8 PCS partial frames" should read as "eight PCS partial frames", see lines 12 and 17 on In figures 190-24 and 190-25 the word with typo "imepdance" needs to be written as same page. "impedance". SuggestedRemedy SuggestedRemedy Change "8 PCS partial frames" to "eight PCS partial frames" in line 2 and line 27. Suggest As per comment. to re-add a "." at the end in lines 12, 17, 22 and 27. Response Response Status C Response Response Status C **ACCEPTED ACCEPTED** C/ 190 SC 190.5.4.1 P123 L37 # 42 SC 190.4.9.1.1 C/ 190 P115 L46 # 39 Graber, Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE Comment Type E Comment Status A ΕZ F7 Comment Type E Comment Status A Referenced Figure 190-21 needs to be changed to Figure 190-23. "training frames" should be singular ("training frame"). SuggestedRemedy SuggestedRemedy As per comment. As per comment. Response Response Status C Response Response Status C **ACCEPTED ACCEPTED**

C/ 190 SC 190.5.4.4 P124 L32 # 43 C/ 190 SC 190.5.5.3 P127 L44 # 46 Graber, Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE Comment Type E Comment Status A Comment Type E Comment Status A ΕZ Instead of Figure 190-23, figure 190-24 needs to be referenced. Also the references to the Should be -113 dBm/Hz instead of -11 dBm/Hz. equations need to be shifted down by 1 (Equation 190-9 --> 190-8, 190-10 --> 190-9, 190-SuggestedRemedy 11 --> 190-10, 190-12 --> 190-11). As per comment. SuggestedRemedy Response Response Status C As per comment. ACCEPTED Alian with resolution to comment 161. Response Response Status C **ACCEPTED** C/ 190 SC 190.7.1.2 P131 **L8** Graber, Steffen Pepperl+Fuchs SE C/ 190 SC 190.5.4.4 P126 L4 # 44 Comment Type E Comment Status A F7 Pepperl+Fuchs SE Graber, Steffen The decision has been made to start the link segment definition from 1 MHz instead of 0.1 Comment Type Comment Status A ΕZ MHz. In This case the roll-off of the RL between 0.1 MHz and 0.5 MHz is no more present. The equations for the Upper PSD mask go up to 250 MHz, Figures 190-26 and 190-27 only SuggestedRemedy plot the curves up to 200 MHz. Should be adapted to match the frequency range provided Remove line with "9 + 8f" and start the 13 dB section at 1 MHz instead of 0.5 MHz. in the equations. SuggestedRemedy Response Response Status C ACCEPTED As per comment. Response Response Status C C/ 190 SC 190 7 1 2 P132 L12 # 48 **ACCEPTED** Graber, Steffen Pepperl+Fuchs SE # 45 C/ 190 SC 190.5.5.3 P127 L 29 Comment Type E Comment Status A ΕZ "1 <= f <= 5" needs to be changed to "1 <= f < 5" as otherwise it overlaps with the second Graber, Steffen Pepperl+Fuchs SE frequency range specified below. Comment Type Comment Status A F7 SuggestedRemedy 100BASE-T1L only supports link segments and no mixing segments. Thus, "Link or Mixing Segment" should be changed to "Link Segment" in Figure 190-28. As per comment. SuggestedRemedy Response Response Status C As per comment. **ACCEPTED** 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

ACCEPTED

C/ 190 SC 190.7.2.1 P134 L 33 # 49 C/ 190 P146 L25 # 52 SC 190.11.4.3.2 Graber, Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE Comment Type E Comment Status A Comment Type E Comment Status A ΕZ "10 <= f < 60" needs to be changed to "10 <= f <= 60" (the 60 MHz as upper frequency for Test modes 9 and 10 have the RS-FEC enabled. the link segment definition should be included). See also page 136, line 7, where the limits SuggestedRemedy should be changed to "2 <= f <= 60". Change "without RS-FEC" to "with RS-FEC" and change "M" to "FEC:M" in the Status SuggestedRemedy column. As per comment. Response Response Status C Response Response Status C **ACCEPTED ACCEPTED** C/ 190 SC 190.11.4.3.2 P146 L46 C/ 190 SC 190.11.3 P142 L 26 # 50 Graber, Steffen Pepperl+Fuchs SE Pepperl+Fuchs SE Graber, Steffen Comment Type E Comment Status A F7 Comment Type E Comment Status A Powering Should read as "2.0 V +/- 5%" instead of "20 V +/- 5%". Type H PD or PSE reference is missing. SuggestedRemedy SuggestedRemedy As per comment. Suggest to change: "Clause 104 Type G PD or PSE incorporated in the MDI" to "Clause Response Response Status C 104 Type G or Type H PD or PSE incorporated in the MDI" ACCEPTED Response Response Status C REVISEDAccomodated by comment 54. C/ 190 SC 190 11 4 3 2 P147 L3 Graber, Steffen Pepperl+Fuchs SE C/ 190 SC 190.11.4.2.1 P143 L8 # 51 Comment Type E Comment Status A Powering Graber, Steffen Pepperl+Fuchs SE Type H PSE or PD is missing. Ε Comment Status A ΕZ Comment Type SuggestedRemedy Numbering start with PCST3 instead of PCST1. Change to: "When Clause 104 Type G or Type H PSE or PD PI is included, in test modes 3 SuggestedRemedy and 4 (if increased transmit level is supported), less than 25% droop with respect to the Suggest to start with PCST1. initial value at 37.5 ns after zero crossing at 100 ns after the zero crossing". Response Response Status C Response Response Status C **ACCEPTED** REVISEDPage 123 line 49, change: "When a Clause 104 Type G PSE or PD PI is not encompassed within the MDI" to "When a Clause 104 PSE or PD PI is not encompassed within the MDI"Page 124 line 1, change "When a Clause 104 Type G PSE or PD PI is encompassed within the MDI" to "When a Clause 104 PSE or PD PI is encompassed within the MDI"Page 142 line 26 and Page 147 line 3 delete "Type G"

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 54

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C/ 190 SC 190.11.4.3.2 P147 L 25 # 55 Graber, Steffen Pepperl+Fuchs SE Comment Type Ε Comment Status A ΕZ Space between "and" and "Equation" needs to be added. SuggestedRemedy As per comment. Response Response Status C **ACCEPTED** C/ 190 SC 190.11.4.6 P149 L 20 # 56 Graber Steffen Pepperl+Fuchs SE Comment Type Ε Comment Status A F7 "short circuti" should read as "short circuit". SuggestedRemedy As per comment. Response Response Status C **ACCEPTED** C/ 98B SC 98B.4 P151 L1 # 57 Graber, Steffen Pepperl+Fuchs SE Comment Type Comment Status A ΕZ Ε Page is empty. SuggestedRemedy Remove empty page. Response Response Status C **ACCEPTED**

CI 98D SC 98D.1.1 P152 L25 # 58

Graber, Steffen PepperI+Fuchs SE

Comment Type T Comment Status A Downshift/Upshift

Having modes of operation with increased transmit level and standard transmit level in a sequence can lead to issues during downshift. When downshifting from an increased transmit level to a normal transmit level, then likely, the risk for a link failure is even higher in noisy environments. Therefore it could make sense to downshift from 100BASE-T1L increased transmit level directly to 10BASE-T1L increased transmit level and from 100BASE-T1L normal transmit level directly to 10BASE-T1L normal transmit level (as likely most applications outside of intrinsic safety would use the increased transmit level for a better noise immunity).

SuggestedRemedy

Suggest to add a note, that in many configurations it makes sense to only activate the PHYs either supporting increased transmit level or normal transmit level for downshift sequence: "Note - In many applications it is reasonable to limit the downshift/upshift sequence to either the PHYs supporting an increased transmit level or PHYs supporting a normal transmit level, as otherwise a downshift from an increased transmit level to a normal transmit level occurs, which can lead to a higher probability for a link failure in noisy environments."

Response Status C

REVISEDAt Page 152 Line 31, add: "Note - In many applications it is reasonable to limit the downshift/upshift sequence to either the PHYs supporting an increased transmit level or PHYs supporting a normal transmit level, as otherwise a downshift from an increased transmit level to a normal transmit level occurs, which can lead to a higher probability for a link failure in noisy environments.". At Page 152 Lines 25 to 29, swap the order of the increased transmit level and standard transmit level, and add the words "standard transmit level" for 100BASE-T1L and for 10BASE-T1L. so that the order reads (as a list with emdashes):100BASE-T1L standard transmit level, 100BASE-T1L increased transmit level, 10BASE-T1L standard transmit level.

 CI 98D
 SC 98D.2.5
 P155
 L1
 # 59

 Graber, Steffen
 Pepperl+Fuchs SE

 Comment Type
 E
 Comment Status A
 EZ

The following typos need to be corrected: line 22: "link_statusHCD] <= FAIL" needs to be changed to "link_status[HCD] <= FAIL", line 27: "IF (ds_fail_count >= mr_ds_fail_threshold THEN" needs to be changed to "IF (ds_fail_count >= mr_ds_fail_threshold) THEN", line 43: an "END" is missing one line top of the next "IF". At the points where "++" is used to increment a variable, there should be no space between the variable and the "++".

SuggestedRemedy

As per comment.

Response Response Status C

ACCEPTED

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 59

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C/ 98D SC 98D.2.5 P155 L21 # 60 C/ 98D P159 **L6** SC 98D.3.3 # 63 Graber, Steffen Pepperl+Fuchs SE Graber, Steffen Pepperl+Fuchs SE Comment Type Т Comment Status A Downshift/Upshift Comment Type Е Comment Status A Downshift/Upshift In state "DS_LINKDOWN" the first two IF instructions just (re)start the ds_upshift_timer. Downshift is optional. Thus "*DNSFT" cannot be mandatory and "M" needs to be changed The first IF instruction stops it (if it is running), so that it is definitely stopped afterwards. to "O" in status row. The same is the case for tables in Clauses 98D.3.4.1 and 98D.3.4.2 The next IF instruction is then always true and starts the ds upshift timer. If this is the where a "Yes/No" Checkbox for the support is provided, which leads to the assumption that all different features are optional. Thus instead of "DNSFT:M" the status "DNSFT:O" and intended behavior, then just a "start ds upshift timer" should be enough (nevertheless. this is likely not the intended behavior). What is more likely wanted is to stop the instead of "UPSFT:M" the status "UPSFT:O" needs to be used. ds upshift timer in case a link fails. So likely the right thing to do is to replace the two IF SuggestedRemedy instructions at the beginning of the "DS_LINKDOWN" state with "stop ds_upshift_timer". In As per comment. this case, the ds upshift timer would be started in case of a link up (in "DS LINKUP" state), which should be the intended behavior, otherwise the timer would be running and Response Response Status C after expiring while staving in DS IDLE state an upshift would be attempted, even if the link REVISEDAD new sentence to the end of 98D.1"PHYs implementing Annex 98D shall is down. comply with the behavior in Figure 98D-1."Replace 98D.3.3 Major capabilities and options SuggestedRemedy with "98 D.3.3 Support for downshift/upshift"Replace PICS entry *DNSHFT with:DS1Feature: Behavior of downshift/upshiftSubclause: 98D.1Comment: Behavior As per comment. complies with Figure 98D-1Status: MSupport: Yes[1]Delete all other PICS in 98D.3.4 Response Response Status C REVISEDAccomodated by comment 147. C/ 98D SC 98D.3.4.1 P159 L23 Graber, Steffen Pepperl+Fuchs SE C/ 98D P156 L17 # 61 SC 98D.2.6 Comment Type Comment Status A F7 Graber, Steffen Pepperl+Fuchs SE Should be "mr ds downshift attempts" instead of "mr ds downshift enabled". Comment Status A ΕZ Ε Comment Type SuggestedRemedy The restart period is defined in bits 7.531.15:8. Change "mr ds downshift enabled" to "mr ds downshift attempts". SugaestedRemedy Response Response Status C Change register bits 7.531.0:7 to 7.531.15:8. ACCEPTED Response Response Status C **ACCEPTED** C/ 98D P159 SC 98D.3.4.2 L39 # 65 Pepperl+Fuchs SE Graber, Steffen P157 L17 # 62 C/ 98D SC 98D.2.7 Comment Type E Comment Status A Downshift/Upshift Graber, Steffen Pepperl+Fuchs SE "mr ds upshift supported" does not exist (combined bit for upshift/downshift supported). Comment Type Ε Comment Status A Downshift/Upshift Thus, "UPSFT1" needs to be removed from the table. Value for 10BASE-T1L (normal transmit level) should be 19 instead of 18. SuggestedRemedy SuggestedRemedy As per comment. Change Value from 18 to 19. Likely also, but not sure, 32:64 in last row needs to be Response Response Status C changed to 0:31 (as there are just 5 bis for encoding). 0:15 in first row needs to be "-" (as ACCEPTED there are no types within the technology category 0) and the 0:15 from the first row need to be moved to a new third row with "0:15 | Reserved".

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

Response Status C

REVISEDReplace Table 98D-2 (p 157) with Table 98D-2 in jones 3dg 02 1125.pdf

Response

Comment ID 65

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C/ 190 SC 190.7.1.2 P131 **L8** # 66 Cl 45 P33 L41 # 69 SC 45.2.1.236b.1 SwissBES GmbH **Analog Devices** Fischer, Peter Brychta, Michal Comment Type Т Comment Status A ΕZ Comment Type Ε Comment Status A ΕZ Erro in formula 190-14, the first line is obsolete, the second row has a wrong starting The word "Standard" is missing in the clause heading. frequency, compare to figure 190-31 and the text above Oat all frequencies from 1 MHZ to SuggestedRemedy 60 MHz. Insert "Standard" before "transmit/receive" SuggestedRemedy Response Response Status C Delete the first line of formula 190-14, correct the starting frequency on the second line from 0.5 to 1. REVISEDSee comment 12. Response Response Status C C/ 45 SC 45.2.1.236b.1 P33 L43 **ACCEPTED See comment 47** Brvchta, Michal Analog Devices # 67 C/ 30 SC 30.5.1.1.4 P25 L41 Comment Type E Comment Status A F7 Text states that the PHY support "an standard transmit/receive level Ó". The same issue Brychta, Michal **Analog Devices** occurs at line 45. Comment Type E Comment Status A F7 SuggestedRemedy Text "For 10BASE-T1L and 100BASE-T1 Ó " duplicates text starting at line 39. Change to "an standard" to "a standard" in two places. SuggestedRemedy Response Response Status C Remove duplicate text (Keep text "For 10BASE-T1L and 100BASE-T1 [Ó]". 100BASE-T1L has its own definition following). REVISEDAccomodated by comment 174. Response Response Status C Cl 45 SC 45.2.3.75c P38 L11 **REVISEDSee comment 8.** Brychta, Michal **Analog Devices** P26 C/ 30 SC 30.5.1.1.15 L 19 # 68 Comment Type E Comment Status A ΕZ Brychta, Michal **Analog Devices** Use of all lower-case in "infofield" is not consistent with clause 190. ΕZ Comment Type Ε Comment Status R SuggestedRemedy Wrong punctuation mark ".;" at the end of the paragraph. Change "infofield" to "InfoField" Note: the wrong punctuation is already present in the IEEE Std 802.3-2022, and occurs in Response Response Status C some other clauses of the standard and the P802.3dg 2.1 draft. ACCEPTED SuggestedRemedy Remove ";" following "."

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

Response

Response Status C

correct usage in the syntax of Clause 30 management definitions.

REJECTEDCRG Disagrees with commenter. The ".;" while not correct English is the

Cl 45 SC 45.2.3.75d.2 P38 L32 # 72 C/ 190 SC 190.1 P55 L31 # 75 Brychta, Michal **Analog Devices Analog Devices** Brychta, Michal Comment Type Ε Comment Status A Comment Type Ε Comment Status A RS-FEC Spurious text "um TC receive path data delay" and Table 45-302 appears at the end of this Add comma after RS-FEC to improve readability of "PHYs implementing RS-FEC request use of the capability by setting MDIO register bit 3,2297.14 to one" sub-clause. SuggestedRemedy SuggestedRemedy Remove spurious text and table. Change text to "PHYs implementing RS-FEC, request use of the capability by setting MDIO register bit 3.2297.14 to one" Response Response Status C Response Response Status C REVISEDSee comment 14. **REVISED Accomodated comment 185.** C/ 45 SC 45.2.3.75d P39 **L6** C/ 190 P56 SC 190.1.2 L30 Brychta, Michal **Analog Devices** Brychta, Michal **Analog Devices** F7 Comment Type E Comment Status A Comment Status A ΕZ Comment Type Use of all lower-case in "infofield" is not consistent with clause 190. Mix of singular and plural in text "A 100BASE-T1L PHY are mandated Ó". SuggestedRemedy SuggestedRemedy Change "infofield" to "InfoField" Change text to "100BASE-T1L PHYs are mandated ...". Response Response Status C Response Response Status C REVISEDIt should be at p37, line 16. ACCEPTED Cl 45 SC 45 2 7 29 P40 / 13 # 74 C/ 190 SC 190.2.2 P61 L31 Brychta, Michal Analog Devices Brychta, Michal **Analog Devices** Comment Type T Comment Status A Downshift/Upshift F7 Comment Type Comment Status A The Downshift/upshift nomenclature in register 7.529.15 is ambiguous. It is unclear if both are supported (and hence, when supported both downshift and upshift are mandatory) or Reference to Figure 190-16 should be to Figure 190-2. only one may be supported. There is a single bit to indicate support, but two separated SuggestedRemedy control register bits (7.528.15 and 7.528.14) to enable downshift and upshift. The definition Change reference. of those later R/W bits do not indicate what happens when they are written but 7.529.15 is 0 (Downshift/Upshift is not supported). Moreover, Annex 98D.3.4 lists separate PICS items Response Response Status C for Downshift supported and Upshift supported, but the register mapping for the later is not **ACCEPTED** defined.

SuggestedRemedy

The definition of the 7.529 and 7.528 needs to be clarified and made consistent with Annex 98D

Response Response Status C

REVISEDAccomodated by comments 65 and 151.

CI 190 SC 190.3.2 P72 L3 # 78

Brychta, Michal Analog Devices

Comment Type E Comment Status A PCS

There is no "PCS Clock function" listed in clause "190.3 Physical Coding Sublayer (PCS)".

SuggestedRemedy

Clause 190.3.2 should either be renamed or either removed and the requirements to generate the TX_CLK and RX_CLK clocks added under Clauses 190.3.3 and 190.3.4 respectively.

Note that either way, PICS item PCST5 would be affected.

Response Status C

REVISEDDelete 190.3.2 and content.Add new third paragraph on 190.3.3 (before "When communicating with the MII) stating"When the MII is present as an exposed interface, the PCS Transmit function shall generate the TX_CLK in accordance with Clause 22."Add new 2nd paragraph to 190.3.4 stating "When the MII is present as an exposed interface, the PCS Receive function shall generate the RX_CLK in accordance with Clause 22."In 190.11.4.2.1Change PICS PCST5 Feature to "TX_CLK generation", subclause to 190.3.3, Value/Comment, "When the MII is an exposed interface, generate TX_CLK as specified in Clause 22", Status: MII:M Support Yes[] N/A[]In 190.11.4.2.2Add new PICS PCSR2 (and renumber subsequent PCSR PICS), Feature = "RX_CLK generation", subclause 190.3.4, Value/Comment "When the MII is an exposed interface, generate RX_CLK as specified in Clause 22", Status: MII:M Support Yes[] N/A[]

C/ 190 SC 190.3.3.2 P73 L29 # 79

Brychta, Michal Analog Devices

Comment Type E Comment Status A EZ

In the clause heading "8N+1" is written without spaces before and after the + symbol, whereas in most cases there are spaces.

SuggestedRemedy

Globally replace "8N+1" with "8N + 1"

Response Response Status C

ACCEPTED

Cl 190 SC 190.3.3.2 P74 L41 # 80

Brychta, Michal Analog Devices

Comment Type T Comment Status A Editorial

May consider to change the symbol labels: S0, S1, S2, S3, S4, S5, S6 ... S11 Ó S96N-1 to:

A0, B0, C0, D0, E0, F0, A1 Ó F1 Ó F16N-1
To be consistent with the nomenclature in 190.3.3.6.6 and 190.3.5.3

SuggestedRemedy

Rename the symbol labels as suggested. In addition label the last code-group as "6B or 6T symbol 16N-1"

Response Status C

REVISEDRename the symbol labels TA0, TB0, TC0, TD0, TE0, TF0, TA1, àTF1à TF16N - 1; with the numbers as subscript, as in header to Table 190-8.Change NOTE - to NOTE 1 -Add new NOTE 2 (after Note 1):NOTE 2 - See 190.3.3.6.6 and 190.3.5.3 for nomenclature at the PMA service interface.

C/ 190 SC 190.3.3.6.2 P82 L45 # 81

Brychta, Michal Analog Devices

Comment Type E Comment Status A EZ

Space missing in the text "... mi,0of the finite field".

SuggestedRemedy

Insert space between "mi,0" and "of Ó".

Response Status C

ACCEPTED

Cl 190 SC 190.3.3.6.6 P88 L1 # 82

Brychta, Michal Analog Devices

Comment Type E Comment Status A EZ

Text "A balanced code-group is generated Ó" precedes the equation for SXn, but should follow it.

SuggestedRemedy

Move the text to the line after the equation for SXn. It should be before the equation for An, Bn. Ó Fn.

Response Status C

ACCEPTED

C/ 190 SC 190.3.4 P89 L34 # 83

Brychta, Michal Analog Devices

Comment Type E Comment Status A

RS-FEC

The text "The PCS Receive function shall conform to the PCS Receive state diagram in Figure 190¹13 and Figure 190¹14. When RS-FEC is enabled for the link, the PHY Receive function shall conform to the RFER Monitor state diagram of Figure 190¹15." may be misleading. The PCS receive function shall conform to the state diagrams in Figures 190-13 and 190-14 in all cases, and when RS-FEC is enabled for the link, the RFER monitor process, monitors the signal quality.

SuggestedRemedy

Change the text to just:

"The PCS Receive function shall conform to the PCS Receive state diagram in Figure 190¹13 and Figure 190¹14."

In the last paragraph of 190.3.4 (Page 90, Line 9) change the sentence starting with "When RS-FEC is enabled for the link" as shown:

"When RS-FEC is enabled for the link, the PCS receive shall perform the RS-FEC frame error ratio (RFER) monitor process, as specified in the state diagram of Figure 190-15, to monitor the reliability of the RS-FEC decoder and assert hi_rfer to indicate an excessive RS-FEC frame error ratio"

Response Status C

REVISEDDelete "When RS-FEC is enabled for the link, the PHY Receive function shall conform to the RFER Monitor state diagram of Figure 190û15." (2nd sentence of 1st paragraph of 190.3.4, at P89 L34)In the last paragraph of 190.3.4 (Page 90, Line 9) change the sentence starting with "When RS-FEC is enabled for the link" as shown: "When RS-FEC is enabled for the link, the PCS receive shall perform the RS-FEC frame error ratio (RFER) monitor process, as specified in the state diagram of Figure 190-15, to monitor the reliability of the RS-FEC decoder and assert hi_rfer to indicate an excessive RS-FEC frame error ratio".

Cl 190 SC 190.3.5.1 P91 L49 # 84

Brychta, Michal Analog Devices

Comment Type E Comment Status A Editorial

The notation convention used in the definition of Sdn[3], where * is used as a logical AND operator (as in the state diagrams), is inconsistent with the convention used in the definition of SXn in page 88, line 4 and in page 96, line 27, where AND and OR are used. I understand that the later is to try to avoid confusion with the preceding DSn formulas where '+' is used to denote integer addition. But, there should be no confusion from the context (the Sdn[3] and SXn definitions are combining relational operators, which always produce a Boolean true/false result). In any case, there should be consistency in how operators are used within the same clause.

SuggestedRemedy

Resolve the inconsistencies.

Response Response Status C
REVISED Replace * with AND on P91 L48

C/ 190 SC 190.3.5.2 P92 L14 # 85

Brychta, Michal Analog Devices

Comment Type E Comment Status A PCS

Code-groups are noted as "6-tuple" in Figure 190-7.

SuggestedRemedy

Change "6-tuple" to code-group (or "4B6B code-group") in Figure 190-7.

Response Status C

REVISED Change "6-tuple" to "code-group"

C/ 190 SC 190.3.5.2 P93 L10 # 86

Brychta, Michal Analog Devices

Comment Type E Comment Status A EZ

Reference to Figure 190-12 should be to Figure 190-10.

SuggestedRemedy

Change reference.

Response Status C

ACCEPTED

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 86

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PCS

C/ 190 SC 190.3.5.2 P93 L13 # 87

Brychta, Michal Analog Devices

Comment Type T Comment Status A

The text states "When the config parameter is LEADER and EEE is supported, the PHY incorporates a formatted training frame count (FTFC) [Ó]. When the config parameter is FOLLOWER is enabled for the link, the FOLLOWER uses the FTFC value received [Ó]". Which implies that the leader should send the FTFC when 3.2296.15 (EEE ability) is set, regardless of whether 3.2297.15 (EEE advertisement) is set. However, the follower would only use it EEE is *enabled for the link*, which would never happen if 3.2297.14 is not set in the master. This seems a bit inconsistent.

SuggestedRemedy

Change the text for the leader to:

"When the config parameter is LEADER and EEE is advertised, the PHY incorporates a formatted training frame count (FTFC)."

Response Status C

REVISED At P93 L13, change "supported" to "advertised".

Cl 190 SC 190.3.5.2.4 P93 L8 # 88

Brychta, Michal Analog Devices

Comment Type T Comment Status A

Same issue as in 190.3.5.2 page 93. line 13.

The text states "When the config parameter is LEADER and EEE is supported", but it should be "and EEE is advertised". Same in line 18.

SuggestedRemedy

Change the text in line 8 to:

"When the config parameter is LEADER and EEE is advertised, Octet 7<7:0> shall be set equal to the value".

Change the text in line 18 to:

"When the config parameter is FOLLOWER or EEE is not advertised, bits Octet 7<7:0> shall be set to zero."

Response Response Status C

REVISED Text is on page 94 lines 8 and 18.change "supported" to "advertised" (both places).

Cl 190 SC 190.3.5.2.4 P94 L39 # 89

Brychta, Michal Analog Devices

Comment Type E Comment Status R Editorial

In the text:

"Bit Oct10<0>, rs_adv, is set to one when the 100BASE-T1L PHY has the ability to operate in RS-FEC mode as indicated by status register bit 3.2296.14 and the 100BASE-T1L training register bit 3.2297.14 to request RS-FEC mode of operation is also set to a one"

The reference to 3.2296.14 is unnecessary, given that 45.2.3.75c (Register 3.2297) states explicitly that "only bits representing supported abilities can be set". Same applies to eee adv.

SuggestedRemedy

Change the text to:

"Bit Oct10<0>, rs_adv, is set to one when the 100BASE-T1L training register bit 3.2297.14 to request RS-FEC mode of operation is set to a one. Bit Oct10<1>, eee_adv, is set to one when the 100BASE-T1L training register bit 3.2297.15 to request EEE mode of operation is set to a one."

Or

"Bit Oct10<0>, rs_adv, and Oct10<1>, eee_adv, are set to the values in the 100BASE-T1L training register bits 3.2297.14 and 3.2297.15 respectively."

Response Status C

REJECTED CRG Disagrees with the commenter. Text is clear, and provides compete information. Proposal would send the reader looking to the registers for information on what these bits in the infoffield mean.

C/ 190 SC 190.3.5.3 P96 L26 # 90

Brychta, Michal Analog Devices

Comment Type TR Comment Status A

The equation for SXn was correct in draft 2.0 but used * and + for logical operations. The equation should have been changed only by replacing the binary operator * with AND, and the binary operator + with OR. However, the equation has been substantively changed in draft 2.1 and it is now incorrect.

SuggestedRemedy

Replace the equation for SXn with the version from draft 2.0 and then replace any binary operators * with AND, and any binary operators + with OR. Do not change the unary + operator on the +1 value in the equation as this is a standard integer operator.

Response Status C

REVISEDAccomodated by comment 34.

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 90

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PCS

C/ 190

Brychta, Michal

C/ 190 P97 L41 # 91 SC 190.3.6

Brychta, Michal **Analog Devices**

Comment Type E Comment Status A Comment Type E Comment Status A In the text "the tx mii array indicate either Normal Inter-Frame or Assert remote fault". Inter-

SC 190.3.7.1.2

Editorial

93

The first value of mod(PFC.96) in Figure 190-10 is 8, and it should be 0 (for both LEADER and FOLLOWER). Also the grey tones used to represent the sleep, alert and wake cycles is inconsistent between the LEADER and FOLLOWER.

SuggestedRemedy

Change the first value of mod(PFC.96) in Figure 190-10 from "8" to "0" for both the LEADER and FOLLOWER.

Use the same grey tones to represent the sleep, alert and wake cycles in both the LEADER and FOLLOWER.

Response Response Status C

Т

ACCEPTED

C/ 190 SC 190.3.7.1.2 P101 L10 # 92

Comment Status A

Brychta, Michal **Analog Devices**

RS-FEC

The text "The boolean value of rx char is extracted from rx coded<0>, the 8-bit numerical value of rx char is extracted from rx coded<8N+1:8N+9>." is incorrect.

SuggestedRemedy

Comment Type

Change the text to:

"For each of the N characters, the Boolean value of rx char is extracted from rx coded<0> and the 8-bit numerical value is extracted from rx coded<8n+1:8n+8>, for n = 0 to N-1."

Response Status C Response

ACCEPTED

SuggestedRemedy Replace "Normal Inter-Frame" with "Normal inter-frame"

the indication is named "Normal inter-frame"

Response Response Status C

REVISEDEditorÆs license to change all ôInter-Frameö to ôinter-frameö and ôNormal inter-frameö to ônormal inter-frameö with editorÆs license except where a title, stand alone item, or subject of a sentence (in which case it is ôNormal inter-frameö). Changes are as follows:p 72 L51, P80 L13 & P80 L24 to ônormal inter-frameö, p77 L38 & p80 L6 to ôNormal inter-frameö, P80 L28, P101 L23, P121 L27, P121 L31, P146 L22, & P146 L25 to ônormal inter-frameö

P101

Analog Devices

Frame should not be capitalized, since tx mii refers to the MII transfers, and in Table 22-1

L23

C/ 190 P101 SC 190.3.7.1.2 L38 # 94

Brychta, Michal **Analog Devices**

Comment Type E Comment Status A EEE

The text "à set by the PCS Receive function à" is incorrect as the variable eee low snr is set by the PMA receive function. There may have been confusion due to the fact that the next variable on the list, rem eee low snr, is set by the PCS receive function.

SugaestedRemedy

Change text to "à set by the PMA Receive function à"

Response Response Status C

ACCEPTED

C/ 190 P101 SC 190.3.7.1.2 L 52 # 95

Brychta, Michal **Analog Devices**

Comment Type Comment Status A I PI

The text for rx lpi sleep "Boolean variable that is set TRUE when the last 32 rx char values received are /Ll/ and EEE is supported and enabled. It is set FALSE otherwise." For consistency with other clauses, it should better say "[Ó] and EEE is enabled for the link" (Which implies it is supported and advertised by both link partners).

SugaestedRemedy

Change the text to:

"Boolean variable that is set TRUE when the last 32 rx char values received are /LI/ and EEE is enabled for the link. It is set FALSE otherwise."

Response Response Status C

ACCEPTED

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 95

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C/ 190 P103 L12 # 96 C/ 190 P114 L25 SC 190.3.7.1.3 SC 190.4.9.1.1 # 99 Brychta, Michal **Analog Devices** Brychta, Michal **Analog Devices** Comment Type Ε Comment Status A ΕZ Comment Type E Comment Status A ΕZ Ending paragraph period missing for all Duration statements in this clause. The text wrongly refers to the config parameter instead of the link control parameter SuggestedRemedy SuggestedRemedy Add ending periods. Change the text to: "Variable set by the Auto-Negotiation function and communicated through the link control Response Response Status C parameter of the PMA LINK.request primitive. See 190.2.1.1." **ACCEPTED** Response Response Status C **ACCEPTED** C/ 190 SC 190.4.1 P111 **L9** # 97 Brychta, Michal **Analog Devices** C/ 190 SC 190.4.9.1.1 P114 L32 # 100 Comment Type E Comment Status A trainina Brvchta, Michal Analog Devices The text states "See 190.3.5 for information about training time. However, in conditions of Comment Type E Comment Status A State diagrams high noise, more than one attempt may be required to establish a valid link.". The last sentence is out of context and it is included verbatim in the reference (190.3.5). loc phy ready not defined as Boolean. Same applies to ready to transmit (page 115, line 4), rx lpi active (page 115, line 26), timing locked (page 115, line 28), SuggestedRemedy tx info countdown done (page 115, line 40), tx info frame end (page 115, line 48) and Delete the last sentence. "However, in conditions of high noise, more than one attempt lpi refresh detect (page 116, line 3) may be required to establish a valid link." SuggestedRemedy Response Response Status C Replace "Variable" with "Boolean variable" for the mentioned variables. **ACCEPTED** Response Response Status C ACCEPTED C/ 190 SC 190.4.9.1.1 P114 L 22 # 98 Brychta, Michal **Analog Devices** C/ 190 SC 190.4.9.1.1 P114 L 52 # 101 Editorial Comment Type Ε Comment Status A Brychta, Michal Analog Devices The text should refer to the config parameter Comment Type Comment Status A **Fditorial** SuggestedRemedy The text states: "The pma refresh status variable is set to OK when LPI is not supported.". Change the text to: Although that is correct, it may be more consistent with other clauses to say that "is set to "Variable set by the PHY Control function and communicated through the config parameter OK when EEE is not enabled for the link" of the PMA CONFIG.indication primitive. See 190.2.2.1." SuggestedRemedy Response Response Status C Change the text to: **ACCEPTED** "The pma refresh status variable is set to OK when EEE is not enabled for the link." Response Response Status C

ACCEPTED

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 101

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Cl 190 SC 190.4.9.1.2 P116 L11 # 102

Brychta, Michal Analog Devices

Comment Type **E** Comment Status **A** State diagrams

The text states that "All timers operate in the manner described in 14.2.3.2". However,

The text states that "All timers operate in the manner described in 14.2.3.2". However, 190.1.5.1 State diagram notation, defined that "State diagram timer follow the conventions of 40.4.5.2". Although there is no difference for Clause 190, since stop timer is not used in any state diagram, the convention for the timers should be unified.

SuggestedRemedy

Delete the text "All timers operate in the manner described in 14.2.3.2".

In addition, and optionally, 14.2.3.2 could be referenced in 190.1.5.1 (page 59, line 9) instead of 40.4.5.2.

Response Status C

REVISED Delete the text "All timers operate in the manner described in 14.2.3.2"

C/ 190 SC 190.4.9.2 P117 L45 # 103

Brychta, Michal Analog Devices

Comment Type E Comment Status A State diagrams

The PHY Control state diagram (parts a, b and c) do not use the same labelling conventions in the PCS Receive state diagram (parts a and b), defined in 145.2.5.2.

SuggestedRemedy

The state diagrams in the same clause should be consistent.

Resolve the inconsistencies by either adding the labels as per 145.2.5.2 in the PHY control state diagram, or removing them in the PCS Receive state diagram, and defining a new convention/exception to 145.2.5.2 in 190.1.5.1 (page 59, line 9).

Response Response Status C

REVISEDAdd label 'pentagon' around exit to INFO_EXCHANGE at P117 L45, and around exit to IDLE_WAIT at P118 L28.Add entry point pentagons to INFO_EXCHANGE and IDLE WAIT states.

Cl 190 SC 190.5.4.4 P124 L30 # 104

Brychta, Michal Analog Devices

Comment Type T Comment Status A TX level

Simulated TX power spectral density (PSD) data indicates that a PSD that is centered between the limit curves has total TX power close to the lower limit currently specified.

SuggestedRemedy

Change "1.0 +/- 1.2 dBm" to "0.0 +/- 1.2 dBm". Also at row 31 change "7.0 +/- 1.2 dBm" to "6.0 +/- 1.2 dBm".

Response Status C

REVISED At P124 L30: Change "1.0 +/- 1.2 dBm" to "0.0 +/- 1.2 dBm". Also at row 31 change "7.0 +/- 1.2 dBm" to "6.0 +/- 1.2 dBm".Also, change P 147 L 15 PICS PMAE18: change feature to: Transmit Power in standard transmit levelchange value to 0.0 +/- 1.2 dBmChange P 147 L 18 PICS PMAE19 value to 6.0 +/- 1.2 dBm

C/ 190 SC 190.11.4.2.3 P144 L38 # 105

Brychta, Michal Analog Devices

Comment Type TR Comment Status A Editorial

TRNG7 status is !EEE:M arguably should be M

SuggestedRemedy

Change status to M

Response Status C

ACCEPTED

Cl 190 SC 190.11.4.2.4 P145 L13 # 106

Brychta, Michal Analog Devices

Comment Type **E** Comment Status **A** EZ

LPIS3 feature is "Refresh signa" (missing "I")

SuggestedRemedy

Change to "Refresh signal"

Response Status C

ACCEPTED

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 106

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C/ 190 SC 190.11.4.3.1 P145 L 51 # 107 C/ 190 P149 L43 # 110 SC 190.11.4.8 **Analog Devices** Brychta, Michal **Analog Devices** Brychta, Michal Comment Type Ε Comment Status A State diagrams Comment Type Ε Comment Status A RS-FEC PMAF9 Value/Comment includes Figure 190-20 and 190-21, which do not correspond to ES3 feature is "Receive path delay with RS-FEC enabled" but it should be "Sum of transmit the PHY control. There should be separate PICS items for those. and received data delays". SuggestedRemedy SuggestedRemedy Add PICS items for Figure 190-20 (Link Monitor) and Figure 190-21 (EEE Refresh Monitor) Change feature to "Sum of transmit and receive path delays with RS-FEC enabled for the Response Response Status C Response Response Status C REVISED(Requirement needs to be split up)In 190.4.4. P112 L11. replace "PHY Control **ACCEPTED** shall comply with the state diagrams in 190.4.9.2." with "PHY Control shall comply with the state diagrams Figures 190-17, 190-18, and 190-19. "Change PICS PMAF9 Value/Comment to "Complies with Figure 190-17, 190-18, and 190-19."In 190.4.5, P113 SC 98B.4 P150 C/ 98B L35 # 111 L8, change "The Link Monitor function behaves as specified by the state diagram of Figure Brychta, Michal **Analog Devices** 190û20." to "The Link Monitor function shall comply with the state diagram of Figure 190û20."Add PICS PMAF10 "Link Monitor" . 190.4.5. "Complies with Figure 190-20". M. Comment Type Comment Status A ΕZ "Yes[]"In 190.4.6 P113 L22, change," The Refresh monitor behaves as specified by the There is typo ("transit") in the text "100BASE-T1L increased transit/receive level" state diagram of Figure 190û21." to "The Refresh monitor shall comply with the state diagram of Figure 190û21."Add PICS PMAF11 "Refresh Monitor". 190.4.6. "Complies with SuggestedRemedy Figure 190-21", EEE:M, "Yes[] N/A[]" Change the text to: "100BASE-T1L increased transmit/receive level" Response C/ 190 SC 190.11.4.5 # 108 Response Status C P149 L 20 ACCEPTED Brychta, Michal **Analog Devices** Comment Type Ε Comment Status A F7 C/ 98D SC 98D.2.2 P153 **L8** # 112 MDI5 feature is "Operation after short circuti" Brychta, Michal **Analog Devices** SuggestedRemedy Comment Type Comment Status A Downshift/Upshift Change to "Operation after short circuit" mr ds downshift supported is not used anywhere in this Annex, and it is not required. See also comment for 45.2.7.29 (page 40, line 13). Response Response Status C **ACCEPTED** SuggestedRemedy Remove mr ds downshift supported. C/ 190 SC 190.11.4.8 P149 / 38 # 109 Response Response Status C Brvchta, Michal Analog Devices ACCEPTED Comment Type F Comment Status A RS-FEC ES1 status is M. it should be !FEC:M

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

Response

Change Status to !FEC:M

Response Status C

ES1. ES2. and ES3. from "ES" to "TR".Add "N/A[]" to Support for ES3.

REVISEDChange Feature of ES1 (P149 L38) to Transmit path delay with RS-FEC disabled or not present "Change status of ES1 to "!FEC:M"Change "Item" designator for

C/ 98D SC 98D.2.3 P153 L40 # 113

Brychta, Michal **Analog Devices**

Comment Type Ε Comment Status A State diagrams

The text states that "All timers operate in the manner described in 14.2.3.2 with the addition that x timer running is asserted while a timer is running." However in 98D.2.1 says that "State diagram timers follow the conventions of 40.4.5.2.". The later is the correct one, since stop is used in the state diagrams and it is not defined in 14.2.3.2. Besides, it is not a good idea to have to different timer conventions defined in the same Annex.

SuggestedRemedy

Remove the paragraph in page 153 line 40.

Change the following sentence in page 152. line 38:

"State diagram timers follow the conventions of 40.4.5.2"

"State diagram timers follow the conventions of 40.4.5.2, with the addition that

x timer running is asserted while a timer is running."

Note that "while a timer is running" may need a description more consistent with the definitions in 14.2.3.2 (included in 40.4.5.2 by reference).

Response Status C Response

REVISEDRemove the paragraph at page 153 line 40. Change the following sentence at page 152, line 38: "State diagram timers follow the conventions of 40.4.5.2" to: "State diagram timers follow the conventions of 40.4.5.2, with the addition that x timer running is asserted while a timer is running."

L1 C/ 98D SC 98D.2.7 P157 # 114

Analog Devices Brychta, Michal

Comment Status A Comment Type Downshift/Upshift

The text states that "The enumerations are 8 bits, comprised of a 3 bit technology category (see Table 98B11) and a 5 bit type within technology category.". The 5 bit "type" may not enough. The following Table is confusing (wrong?) since it is showing values from 0 to 64, but with just 5 bits, they should be from 0 to 31 (for each category).

If 5 bits are not enough, each of the entries currently defined in registers 7.536 and 7.537 would require more bits. With 15 bits/entry, all possible values would be covered (3bits/category + 12 technology bits/category)

SuggestedRemedy

Fix/clarify.

Response Response Status C

REVISEDAccomodated by 62.

C/ 98D SC 98D.3.4.2 P159 L39 # 115

Analog Devices Brychta, Michal

Comment Type Т Comment Status A Downshift/Upshift

UPSFT1 Feature and Value/Comment are not defined. See also comment for 45.2.7.29 (page 40. line 13).

SuggestedRemedy

Fix (or remove) this item.

Response Response Status C

REVISEDAccomodated by comment 65.

C/ 190 SC 190.2.2 P61 L32 # 116

Opsasnick, Eugene Broadcom

Comment Type E Comment Status A

F7

The last cross-reference in the last paragraph on this page is to Figure 190-16, but the text of this paragraph is refering to Figure 190-2. The cross-reference to Fig. 190-16 should be changed to Fig. 190-2 or just removed since the first sentence already has a crossreference Fig. 190-2.

SuggestedRemedy

Change the second sentence of the last paragraph on page 61 from:

"Connections from the management interface (signals MDC and MDIO) to the sublayers are pervasive and are not shown in Figure 190116."

To either:

"Connections from the management interface (signals MDC and MDIO) to the sublayers are pervasive and are not shown in Figure 190¹2."

Or:

"Connections from the management interface (signals MDC and MDIO) to the sublayers are pervasive and are not shown."

Response Response Status C

REVISED see comment 77

C/ 30 SC 30.2.2.1 P25 **L1** # 117

Jones. Peter Cisco

Comment Type Comment Status A Downshift/Upshift

Missing changes to 30.2.2.1, Figure 30¹3 and Table 30¹1e Capabilities as shown in jones_3dg_september_2025_02.pdf pages 18 and 19

SugaestedRemedy

Make changes shown in jones 3dg d2p1 misc changes 0.pdf pages 3,4

Response Response Status C

ACCEPTED

Cl 30 SC 30.6.1.1.5 P26 L43 # 118 Jones, Peter Cisco Comment Type E Comment Status A I think that the new entry for 100BASE-T1L2V should be named for increased transmit level rather that the specific voltage since that swhat we use though much of the document, e.g., Table 45198b SuggestedRemedy Replace ¶100BASE-T1L2V+ With ¶1100BASE-T1TLV+ With ¶1100BASE-T1TLY+ With ¶1100BASE-T1												
Comment Type	C/ 30	SC 30.6.1.1.5	P 26	L 43	# 118	CI 30	SC 30.6.2.1.6	P28	L18	# 121		
I think that the new entry for 100BASE-T1L2V should be named for increased transmit level rather that the specific voltage since thatas what we use though much of the document, e.g., Table 4519Bb. SuggestedRemedy Replace Replace Replace Response Response Response Status C ACCEPTED Ci 30 SC 30.6.2.1.2 P27 L19 # 119 Jones, Peter Cisco Comment Type TR Comment Status A Downshift/Upshift The DownshiftControl attributes do not follow the style used in 802.3. For example, aAutoNegDownshiftControl (action) SuggestedRemedy Make changes shown in jones_3dg_d2p1_misc_changes_0.pdf page(s) 5.6, 7 Response Response Status C REVISEDImplement the changes on jones_3dg_d2p1_misc_changes_3.pdf page(s) 5.6, and 7; with the following modifications:change "reports if" to "reports whether" (2 times)change name of aAutoNegDownshiftAdminControl (globally)-bange name of aAutoNegDownshiftAdminContr	Jones, Peter		Cisco		·	Jones, Peter		Cisco				
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Comment Type T Comment Status A EZ Replace ¶100BASE-T1L (Clause 146)÷				20	# [IZU	Suggeste	dRemedy					
¶100BASE-T1L (Clause 146)÷	,				F7		•					
	•	• •			EL		BASE-T1L (Clause	146)÷				
#100PASE T41 (Clause 400);	ŭ		egDownshilt ellou			With	BASE-T1L (Clause	190)÷				
Suggesteuremeny	-	•					•	,				
Replace Response Response Status C ¶The period used÷ ACCEPTED						•		Response Status C				
With		onou uocu ·				ACCI	IF IEU					
¶The period in seconds used÷	¶The pe	eriod in seconds	used÷									
Response Response Status C	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

ACCEPTED

Comment ID 123

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Cl 45	SC 45.2.1.2	36b.1	P33	L 41	# 124	Cl 45	SC 45.2.7.30	P 40	L37	# 127	
Jones, Pet	ter		Cisco			Jones, Pete	er	Cisco			
Comment	Type E	Comment	Status A		EZ	Comment 7	уре Е	Comment Status A		EZ	
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C/ 45	SC 45.2.7.2	9	P 40	L13	# 125	C/ 45	SC 45.2.7.33	P 42	L11	# 128	
Jones, Pet	ter		Cisco			Jones, Pete	er	Cisco			
Comment	Type TR	Comment	Status A		Downshift/Upshift	Comment 7	ype E	Comment Status A		Downshift/Upshift	
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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 129

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Cl 45 P43 L 11 C/ 190 SC 190.1 P55 L10 SC 45.2.7.35 # 130 # 133 Jones, Peter Cisco Jones, Peter Cisco Comment Type Ε Comment Status A Downshift/Upshift Comment Type Ε Comment Status A Improve language Improve text clarity. SuggestedRemedy SuggestedRemedy Replace Replace ¶The number of Upshift attempts since Auto-Negotiation was enabled on the interface÷ ¶This clause defines the type 100BASE-T1L Physical Coding Sublayer (PCS) and type 100BASE-T1L Physical Medium Attachment (PMA) sublayer.÷ ¶¶The number of Upshift attempts on the interface since Auto-Negotiation was enabled÷ ¶This clause defines the 100BASE-T1L Physical Coding Sublayer (PCS) and the 100BASE-Response Response Status C T1L Physical Medium Attachment (PMA) sublayer. **ACCEPTED** Response Response Status C **ACCEPTED** CI 98 SC 98.2.1 P47 L10 # 131 Cisco Jones, Peter C/ 190 SC 190.1 P55 L15 # 134 Comment Type E Comment Status A Editorial Jones. Peter Cisco This paragraph is very hard to read. Comment Type Comment Status A Editorial SuggestedRemedy Why do we need to say that 100BASE-T1L is ¶one of the 100 Mb/s Ethernet family of full-Make changes shown in jones 3dg d2p1 misc changes 0.pdf page(s) 10 duplex PHY specifications +? Response SuggestedRemedy Response Status C REVISEDChange editing instruction at page 47 line 8 from: "Change the last paragraph Replace ¶The 100BASE-T1L PHY is one of the 100 Mb/s Ethernet family of full-duplex PHY of 98.2.1 as shown: "to "Change the last paragraph of 98.2.1 as shown (including inserting carraige returns after "full reach capability." and after "HSM."). Break paragraph at page 47 specifications, capable of operating at 100 Mb/s.÷ into 3 paragraphs by inserting carraige returns after "full reach capability." at line 14 and after "HSM." at line 16. ¶The 100BASE -T1L PHY is a full-duplex PHY specification, capable of operating at 100 Mb/s. C/ 104 SC 104.1.3 P49 / 10 # 132 Response Response Status C Jones, Peter Cisco ACCEPTED TFTD. The issue is whether 100BASE-T1L is a "member of the 100BASE-T family" which is in clause 21, or not. It doesn't use clause 28 autoneg. It does use MII, and Comment Type E Comment Status A Powerina is 100 Mb/s, but is otherwise different. The paragraph starting with 104.1.3 is almost unreadable SuggestedRemedy Make changes shown in jones 3dg d2p1 misc changes 0.pdf page(s) 9

Response

ACCEPTED

Response Status C

ΕZ

 C/ 190
 SC 190.1
 P55
 L 28
 # 135

 Jones, Peter
 Cisco

 Comment Type
 E
 Comment Status
 A
 RS-FEC

Simplify text so itas like EEE and doesnat overlap with whatas in 190.1.2

SuggestedRemedy

Replace the 4th paragraph of 190.1 which starts with ¶This clause specifies an optional Reed-Solomon÷ with

¶This clause specifies an optional Reed-Solomon forward error correction (RS-FEC) capability(190.1.2, 190.3.3, 190.3.4). When this capability is active, the PHY adds RS-FEC parity bits to the transmitted data to offer enhanced burst noise protection with increased latency.÷

Response Response Status C
REVISED Accomodated by comment 185.

Improve text clarity.

SuggestedRemedy

Replace

¶Auto-Negotiation, as specified in Clause 98, is supported and mandated by 100BASE-T1L devices. Auto-Negotiation is used to advertise capabilities to the link partner, to detect the capabilities advertised by the link partner, to determine common capabilities, and to configure for normal operation. Auto-Negotiation is used to configure the 100BASE-T1L PHY as LEADER or as FOLLOWER and to configure the 100BASE-T1L PHY transmit voltage level.÷

with

¶Auto-Negotiation, as specified in Clause 98, is required for 100BASE-T1L devices. Auto-Negotiation is used to advertise capabilities to the link partner, detect the capabilities advertised by the link partner, determine common capabilities, and configure PHY parameters (e.g., LEADER/FOLLOWER, transmit voltage level)÷

Response Response Status C

REJECTED CRG Disagrees with commenter. The text was clear and unchanged from D2.0. The proposed modification does not resolve any identified ambiguities.

C/ 190 SC 190.1.2 P56 L40 # 137

Jones, Peter Cisco

Comment Type E Comment Status A RS-FEC

Improve text clarity.

SuggestedRemedy

Replace

¶When RS-FEC is enabled, the two PHYs sharing a link segment add RS-FEC parity octets to each transmitted PCS frame to offer enhanced burst noise protection. RS-FEC results in a significant increase in latency.÷ with

¶When RS-FEC is enabled, the two PHYs sharing a link segment add RS-FEC parity octets to each transmitted PCS frame. This provides enhanced burst noise protection but results in a significant increase in latency.÷

Response Response Status C

REVISED Accomodated by comment 186.

 Cl 190
 SC 190.1.2.3
 P 58
 L 12
 # 138

 Jones, Peter
 Cisco

 Comment Type
 E
 Comment Status
 R
 Editorial

Improve text clarity.

SuggestedRemedy

Replace

¶A 100BASE-T1L PHY optionally supports the EEE capability, as described in 78.3. The EEE capability is a mechanism by which a 100BASE-T1L PHY adapts signaling during periods of low link utilization to provide opportunities for reduced power consumption. A PHY can enter the LPI mode of operation after completing training. Each direction of the full duplex link is able to enter and exit the LPI mode independently, supporting symmetric and asymmetric LPI operation. This allows power savings when only one side of the full duplex link is in a period of low utilization. The transition to or from LPI mode is not expected to cause any MAC frames to be lost or corrupted. Support for the EEE capabilities is advertised in the InfoField during link startup (see 190.3.5.2.4). Transitions to and from the LPI transmit mode are controlled via MII signaling. Transitions to and from the LPI receive mode are controlled by the link partner using sleep and wake signaling.÷ with

¶A 100BASE-T1L PHY may optionally support the EEE capability (78.3). This is mechanism by which a PHY adapts signaling during periods of low link utilization to provide reduced power consumption. A PHY can enter the LPI mode of operation after completing training. Each direction of the full duplex link can enter and exit the LPI mode independently, supporting symmetric and asymmetric LPI operation. Asymmetric LPI operation allows power savings when only one side of the full duplex link is in a period of low utilization.

The transition to or from LPI mode is not expected to cause any MAC frames to be lost or corrupted. Support for EEE is advertised in the InfoField during link startup (see 190.3.5.2.4). Transitions to and from transmit LPI operation are controlled via MII signaling. Transitions to and from receive LPI operation are controlled by the link partner using sleep and wake signaling.÷

Response Status C

REJECTED CRG disagrees with commenter. Rewrite simplifies text but actually loses key points that have been worked out through previous ballot cycles, introduces "may" (is permitted to), which isn't quite what is meant by the 'optionally supports', and creates new problems for the ballot to resolve.

Cl 190 SC 190.3 P71 L5 # 139

Jones, Peter Cisco

Comment Type E Comment Status R Editorial
Improve text consistency.

SuggestedRemedy

Replace

¶The PCS sublayer comprises one PCS Reset function and two simultaneous and asynchronous operating functions. ¶ with

¶The PCS sublayer comprises a reset function and two simultaneous and asynchronous operating functions.÷

Response Status C

REJECTED CRG Disagrees with commenter. Text is unchanged from prior draft and is consistent with other clauses.

C/ 190	SC 190.4	P110	L 7	# 140
Jones, Peter		Cisco		
Comment Ty	pe E	Comment Status R		Editorial

Improve text consistency.

SuggestedRemedy

Replace

with

¶The PMA sublayer comprises a reset function and five simultaneous and asynchronous operating functions.÷

Response Status C

REJECTED CRG disagrees with the commenter. Text is clear and unchanged from prior ballot stage.

C/ 190 SC 190.6.1 P128 L32 # 141

Jones, Peter Cisco

Comment Type T Comment Status A Editorial

Add Auto-Negotiation speed selection to the list.

SuggestedRemedy

insert the following text after item a) in the list

a1) Selecting the Auto-Negotiation speed mode (LSM vs HSM).

Response Status C

REVISED Insert new item b) and re-number remaining items: "Selecting the Auto-Negotiation speed mode (LSM vs HSM).

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 141

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 Cl 98D
 SC 98D.1
 P152
 L16
 # 142

 Jones, Peter
 Cisco

 Comment Type
 E
 Comment Status
 R
 Editorial

Improve language

SuggestedRemedy

Replace

 \P Downshift/upshift uses an independent downshift/upshift sequence to that defined in 98B.4.÷

With

 \P Downshift/upshift uses an independent downshift/upshift sequence to the sequence defined in 98B.4.÷

Response Response Status C

REJECTEDCRG disagrees with the commenter. Text is clear. No ambiguity is resolved by the proposed wording change.

C/ 98D SC 98D.1 P152 L16 # 143

Jones, Peter Cisco

Comment Type ER Comment Status A Downshift/Upshift

Improve text clarity.

SuggestedRemedy

Replace

¶Downshift/Upshift uses independent PHY prioritization for Downshift/Upshift to that defined in 98B.4. The 98B.4 list would include transitions that donat make sense (e.g., 100BASE-T1 to 10BASE-T1S)÷

With

¶Downshift/Upshift uses independent link setting prioritization (e.g., PHY type, Increased Transmit Level) to that defined in 98B.4. 98B.4 specifies the priority ordering for autonegotiation. This priority ordering is not applicable to Downshift/Upshift for several reasons including:

- 1)It includes transitions that donat make sense (e.g., 5GBASE-T1 to 10BASE-T1S).
- 2)There may be other attributes we want to consider when defining the Downshift/Upshift link setting sequence in the future, e.g., RS-FEC

Response Response Status C

REVISED(reworded to remove future-looking statement of intent)Replace "Downshift/Upshift uses an independent PHY prioritization for Downshift/Upshift to that defined in 98B.4. The 98B.4 list would include transitions that don't make sense (e.g., 100BASE-T1 to 10BASE-T1S)"with"Downshift/Upshift uses independent link setting prioritization (e.g., PHY type or Increased Transmit Level) to that defined in 98B.4. 98B.4 specifies the priority ordering for auto-negotiation. This priority ordering is not applicable to Downshift/Upshift for several reasons including that it includes transitions that don't make sense (e.g., transitioning from 5GBASE-T1 to 10BASE-T1S). Having separate orderings allows additional factors to be considered for Downshift/Upshift sequences as the standard evolves "

C/ 98D SC 98D.2.2

P153

L9

144

Jones, Peter Cisco

Comment Type TR Comment Status A Downshift/Upshift

The variable ¶mr_ds_downshift_enabled÷ needs to be renamed as it now indicates support for both downshift and upshift

SuggestedRemedy

Replace

mr ds downshift supported

With

mr ds supported

Make some change throughout document including at least the following page/line numbers:

156/13. 159/18

Response Status C

REVISEDChange mr_ds_downshift_supported to mr_ds_supported at P156 L13, and P159 L18 (and P153 L8 if not deleted by comment 112)

Cisco

C/ 98D SC 98D.2.3 P153 L40 # 145

Jones, Peter

Comment Type TR Comment Status A

State diagrams

The first paragraph of 98D.2.3 does not include the following bullet that was in jones_3dg_september_2025_02.pdf referred to in the resolution of D2.9 comment #255: ¶A timer is reset and stops counting upon entering a state where ¶stop timer÷ is asserted. ¶ Clause 14 does not use a ¶stop x timer÷ function.

SuggestedRemedy

Add the bullet text back into the paragraph.

Response Status C

REVISEDAccomodated by comment 102 and 113.

C/ 98D SC 98D.2.5 P155 L1 C/ 98D P156 **L8** # 146 SC 98D.2.6 # 148 Cisco Jones, Peter Cisco Jones, Peter Comment Type TR Comment Status A Downshift/Upshift Comment Type TR Comment Status A Downshift/Upshift Figure 98D11"Downshift state diagram has a basic flaw (which was in my contributions to The Downshift/Upshift control attributes do not follow the style used in 802.3. For example. D2.0). The state diagram continuously transitions. aAutoNegDownshiftControl should be split into aAutoNegDownshiftControl (attribute) and aAutoNegDownshiftControl (action) SuggestedRemedy SuggestedRemedy Adopt the following changes shown in jones 3dg downshift fix 101525.pdf: 1 ¹ add the following variables to 98D.2.2 as shown on page 2: link status change. Make changes shown in jones 3dg d2p1 misc changes 0.pdf page(s) 8 restart timer change, transmit disable change, upshift timer change. Response Status C Response 2 1 replace Figure 98D11"Downshift state diagram with that shown in page 3. REVISEDAt P156 L10, (row mr downshift enabled), add to the description, (in the same Response Response Status C row, but on a new line) "7.529.14 downshift status" At P156 L10, (row mr_upshift_enabled), REVISED add the following variables to 98D.2.2 as shown on page add to the description, (in the same row, but on a new line) "7.529.13 upshift status" 2:link status ok transition, restart timer done transition. transmit disable true transition, upshift timer done transitionMake the following changes C/ 98D SC 98D.2.6 P156 L17 to Figure 98Dû1ùDownshift state diagram (see page 3 of jones 3dg downshift fix Jones, Peter Cisco 101525.pdf for guidance):on transition from DS_IDLE to DS_LINK_DOWN change transmit disable to transmit disable true transition from DS IDLE to ΕZ Comment Type E Comment Status A DS LINK UP change link status[HCD]=OK to link status ok transitionon transition from Typo in bit numbering for mr ds period restart DS IDLE to DS UPSHIFT change ds upshift timer done to upshift timer done transition from DS IDLE to DS RESTART change (in SuggestedRemedy conditional expression) ds restart timer done to restart timer done transition Replace ¶7.531.0:7÷ P155 C/ 98D SC 98D.2.5 L 23 # 147 With ¶7.531.7:0÷ Jones. Peter Cisco Response Response Status C Comment Type TR Comment Status A Downshift/Upshift REVISEDAccomadated by comment 61. DS LINKDOWN logic line 4 & 5 refer to ds upshift timer instead of ds restart timer. See jones 3dg september 2025 02.pdf page 10 C/ 98D P157 L19 SC 98D.2.8 # 150 SuggestedRemedy Jones. Peter Cisco Change DS LINKDOWN logic lines 4 & 5 from IF (!ds upshift timer running) THEN Comment Type Comment Status A Editorial start ds upshift timer The description for values 20:31 should be Reserved to IF (!ds restart timer running) THEN SuggestedRemedy start ds restart timer Replace "Increased transmit level" Response Response Status C "Reserved" **ACCEPTED** Response Response Status C ACCEPTED

C/ 98D SC 98D.3.4.1 P159 L 19 C/ 190 SC 190.5.2 P120 L48 # 154 # 151 Cisco CME Consulting/ADI, APLqp, CSCO, Infineon, Onsmi, S Jones, Peter Zimmerman, George Comment Type TR Comment Status A Downshift/Upshift Comment Type E Comment Status A TX level There is a single ¶supported÷ variable for both downshift and upshift. The nomenclature on transmit modes is mixed. Here we call the transmit modes "1.0 Vpp transmit level" and "2.0 Vpp transmit level" - elsewhere they are referred to as standard SuggestedRemedy transmit level and increased transmit level Replace SuggestedRemedy ¶Downshift supported÷ Suggest substitute "increased transmit level" for "2.0 Vpp transmit level" globally, and "standard transmit level" for "1.0 Vpp transmit level" globally. ¶Downshift/Upshift supported÷ See file zimmerman 3dg 01 txlev 10202025.pdf for references. Response Response Status C Response Response Status C REVISEDDelete PICS item DNSFT1 and renumber. REVISED Incorporate changes listed in zimmerman 3dg 01 txlev 10202025.pdf to change 1.0 Vpp transmit level to "standard transmit level" and 2.0 Vpp transit level to C/ 98D SC 98D.3.4.1 P159 L 23 # 152 "increased transmit level" with editorial license to fix any that are missed. Cisco Jones, Peter C/ 190 SC 190.11.4.3.2 P146 / 45 # 155 ΕZ Comment Type TR Comment Status A CME Consulting/ADI, APLqp, CSCO, Infineon, Onsmi, S The ôValue/Commentö for DNSFT3 Downshift attempts should be Zimmerman, George mr ds downshift attempts Comment Type E Comment Status A EΖ SuggestedRemedy Typo. 20 V should be 2.0 V Replace SuggestedRemedy ômr ds downshift enabledö change 20 V to 2.0 V ômr ds downshift attemptsö Response Response Status C Response Response Status C **ACCEPTED** ACCEPTED Accomodated by comment 64. C/ 190 SC 190.7.2 P134 L5 # 156 P159 C/ 98D SC 98D.3.4.2 L39 # 153 Zimmerman, George CME Consulting/ADI, APLgp, CSCO, Infineon, Onsmi, S Jones, Peter Cisco Comment Type E Comment Status A Comment Type TR Comment Status R Downshift/Upshift MDANEXT and MDAFEXT aren't specified, PSANEXT and PSAACRF areÓ while related, the text in 190.7.2 editorially doesn't really say what we do. There also isn't a lot of value in There is a single ¶supported÷ variable for both downshift and upshift, so ¶UPSFT1 Upshift repeating the detail of the specification that comes in the subsequent sections. supported+ is not required. SuggestedRemedy SuggestedRemedy replace "multiple disturber alien near-end crosstalk (MDANEXT) loss and multiple disturber Remove UPSFT1 row and renumber alien far-end crosstalk (MDAFEXT) are specified." with "alien crosstalk losses from multiple Response Response Status Z disturbing sources are specified according to their power sums." REJECTED Response Response Status C ACCEPTED This comment was WITHDRAWN by the commenter.

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 156

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Cl 190 SC 190.7.2.1 P134 L 20 # 157

Zimmerman, George CME Consulting/ADI,APLgp,CSCO,Infineon,Onsmi,S

Comment Type E Comment Status A Link Segment

there is no reason for the subscript "N" for the disturbed link segment, as there is only one. It also adds confusion because "N" is a parameter in the equation for the PSANEXT limit.

SuggestedRemedy

delete the subscript "N" in equation 190-17, for PSANEXT_N(f) and AN(f)_ $\{j,N\}$ also delete the subscript "N" on AN(f)_ $\{j,N\}$ in line 23, and change "segment N." to "segment." at the end of the sentence (P134 L25)

Response Status C

ACCEPTED

 C/
 190
 SC
 190.7.2.2
 P135
 L 25
 # [158]

 Zimmerman, George
 CME Consulting/ADI,APLgp,CSCO,Infineon,Onsmi,S

Comment Type T Comment Status A Link Segment

The text says pair-to-pair alien fext (AFEXT) is specified, but what is actually specified is the PSAACRF.

SuggestedRemedy

Replace "In order to limit the alien crosstalk at the far-end of a 100BASE-T1L link segment, the differential pair-to-pair alien far-end crosstalk (FEXT) loss between the disturbed 100BASE-T1L link segment and other disturbing 100BASE-T1L link segments is specified to meet the bit error ratio objective. To ensure that the total alien FEXT coupled into a 100BASE-T1L link segment is limited, multiple disturber AFEXT is specified as the power sum of the individual alien FEXT disturbers." with

"In order to limit the alien crosstalk at the far-end of a 100BASE-T1L link segment, the differential pair-to-pair alien far-end crosstalk (FEXT) loss between the disturbed 100BASE-T1L link segment and other disturbing 100BASE-T1L link segments is specified to meet the bit error ratio objective. To ensure that the total alien FEXT coupled into a 100BASE-T1L link segment is limited, the crosstalk loss is specified as the power sum of the ratio of the crosstalk losses to the insertion loss of the disturbed link segment (PSAACRF) for the individual disturbers."

Response Response Status C

REVISEDMake changes shown in slide 4 of https://www.ieee802.org/3/dg/public/May_2025/Maguire_Comments158and159_dg_01_112 52025.pdf

there is no reason for the subscript "N" for the disturbed link segment, as there is only one. It also adds confusion because "N" is a parameter in the equation for the PSAACRF limit.

Comment Status A

SuggestedRemedy

Comment Type E

delete the subscript "N" in equation 190-19, for PSAACRF_N(f) and AACRF(f)_{j,N} also delete the subscript "N" on AACRF(f)_{j,N} in line 40, and change "segment N." to "segment." at the end of the sentence (P135 L42)

Response Response Status C
REVISEDAccomodated by comment 158.

 C/
 190
 SC
 190.8..2.1
 P137
 L14
 # 160

 Zimmerman, George
 CME Consulting/ADI,APLgp,CSCO,Infineon,Onsmi,S

Comment Type T Comment Status A

Link Segment

Link Segment

It is clear that the return loss specification here applies only for MDIs that are not also clause 104 Pis. The text should say that. In the absence of additional work, the suggested RL limit for a powered system given on slide 5 of graber_3dg_01_09092025.pdf will suffice.

SuggestedRemedy

Add "For MDIs that are not also Clause 104 PIs," to the beginning of the first sentence of 190.8.2.1 (and change the sentence start, "The", into lower case "the")

Add new paragraph after Figure 190-36 at the end of 190.8.2.1:

"For MDIs that are also Clause 104 PIs, the differential impedance at the MDI for each transmit/receive channel shall be such that any reflection (due to differential signals incident upon the MDI with a test port having a differential impedance of 100?) is attenuated relative to the incident signal per Equation (190¹22)."

insert new equation 190-22, from slide 5 of graber_3dg_01_09092025.pdf, and then Equation (190-22) is plotted in Figure 190-3, which is provided for information only. insert plot of equation 190-22, with caption, "Figure 190-37-Return loss calculated using Equation (190-22)"

Response Status C

ACCEPTED

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 160

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C/ 190 SC 190.5.5.3 P127 L 22 # 161 CME Consulting/ADI, APLqp, CSCO, Infineon, Onsmi, S Zimmerman, George Comment Type TR Comment Status A TX level

The -113 dBm/Hz alien crosstalk level was calculated at an early stage without a finalized PSD model. It also doesn't include the standard (1Vpp) transmitter level. Refinements show that in the limiting case of mixed 10BASE-T1L and 100BASE-T1L crosstalk, the level should be -115 dBm/Hz (increased transmit levels) or -121 dBm/Hz. If only 100BASE-T1L crosstalk is considered, the levels should be -120 and -126 dBm/Hz.

SuggestedRemedy

Replace: "The test is performed with a noise source such that noise with a Gaussian distribution, bandwidth of 100 MHz, and magnitude of 1113 dBm/Hz is present at the MDI. The receive DUT is connected to this noise source through a resistive network, as shown in Figure 190¹28, with a link segment as defined in 190.7."

with "The test is performed with a noise source such that the noise with a Gaussian distribution, bandwidth of 100 MHz, flat within +/- 2dB is present at the MDI. The magnitude of the noise source and the link segment used are shown in Table 190-xx. The receive DUT is connected to this noise source through a resistive network, as shown in Figure 190128."

Insert Table 190-xx with the following:

Transmit Level | Link Segment insertion loss | Nominal noise PSD level

Standard | Equation 190-13 | -121 dBm/Hz

Increased | Equation 190-12 | -115 dBm/Hz

Response Response Status C

REVISED Replace: "The test is performed with a noise source such that noise with a Gaussian distribution, bandwidth of 100 MHz, and magnitude of û113 dBm/Hz is present at the MDI. The receive DUT is connected to this noise source through a resistive network, as shown in Figure 190û28, with a link segment as defined in 190.7. with "The test is performed with a noise source such that the noise with a Gaussian distribution, bandwidth of 100 MHz, flat within +/- 2dB is present at the MDI. The magnitude of the noise source and the link segment used are shown in Table 190-xx. The receive DUT is connected to this noise source through a resistive network, as shown in Figure 190û28,"Insert Table 190xx with the following:Transmit Level | Link Segment insertion loss | Nominal noise PSD levelStandard | Equation 190-13 | -122 dBm/HzIncreased | Equation 190-12 | -116 dBm/Hz

C/ 30 SC 30.6.2.1.3 P27 L 35 # 162 Brandt, David Rockwell Automation

Comment Type Comment Status A

Management

Behaviour of aAutoNegUpshiftControl needs a reference for consistency.

SuggestedRemedy

Change: "This action is used to enable or disable upshift.;"

To: "This action is used to enable or disable upshift (see 45.2.7.28.2).:

Response Response Status C

REVISEDAccomodated by comment 119

C/ 30 P27 SC 30.6.2.1.3 L32 # 163

Brandt, David **Rockwell Automation**

Comment Type Т Comment Status A

Incorrect aAutoNegUpshiftControl type.

SuggestedRemedy

Change "INTEGER" to "BOOLEAN"

Response Response Status C

ACCEPTED

C/ 30 SC 30.6.2.1.4 P27 L45

Brandt David Rockwell Automation

Comment Type E Comment Status A Management

Behaviour of aAutoNegDownshiftThreshold needs a reference for consistency.

SuggestedRemedy

Add "(see 45.2.7.30.2)" before ".;"

Response Response Status C

REVISEDinsert "(see 98D.2.6 mr downshift threshold)" at the end of the first sentence of "BEHAVIOUR DEFINED AS:" in 30.6.2.1.4 (P27 L44) so that it reads: The number of link failures within the trigger period that will trigger downshift(see 98D.2.6 mr downshift threshold).

C/ 30 SC 30.6.2.1.5 P28 19 # 165

Brandt David Rockwell Automation

Comment Type Ε Comment Status A Management

Behaviour of aAutoNegDownshiftPeriod needs a reference for consistency.

SuggestedRemedy

Add "(see 45.2.7.30.1)" before ".;"

Response Response Status C

REVISEDChange first sentence of BEHAVIOUR DEFINED AS: for aAutoNegDownshiftPeriod to read:The period in seconds used to evaluate the number of link failures to trigger downshift(see 98D.2.6 mr period downshift).

ΕZ

C/ 30 P28 L 19 # 166 C/ 30 P28 L47 SC 30.6.2.1.6 SC 30.6.2.1.9 # 169 Brandt, David Brandt, David **Rockwell Automation** Rockwell Automation Comment Type E Comment Status A Management Comment Type E Comment Status A Management Behaviour of aAutoNegDownshiftRestartPeriod needs a reference for consistency. Behaviour of aAutoNegDownshiftRestarts needs a reference for consistency. SuggestedRemedy SuggestedRemedy Add "(see 45.2.7.31.1)" before ".;" Add "(see 45.2.7.34.1)" before ".;" Response Response Response Status C Response Status C REVISEDChange first sentence of BEHAVIOUR DEFINED AS: for REVISEDChange BEHAVIOUR DEFINED AS for aAutoNegDownshiftRestarts to aAutoNegDownshiftRestartPeriod to read:The period in seconds used to evaluate restarting read:The number of downshift/upshift restarts on the interface since autonegotiaon was the downshift/upshift process (see 98D.2.6 mr period restart). enabled (see 98D.2.6 mr downshift upshift restarts).; SC 30.6.2.1.10 C/ 30 SC 30.6.2.1.7 P28 L 29 # 167 C/ 30 P29 **L8** # 170 Brandt, David Rockwell Automation Brandt. David Rockwell Automation Ε Comment Status A Comment Status A Comment Type Management Comment Type Management Behaviour of aAutoNegUpshiftPeriod needs a reference for consistency. Behaviour of aAutoNegUpshiftAttempts needs a reference for consistency. SuggestedRemedy SuggestedRemedy Add "(see 45.2.7.32.1)" before ".;" Add "(see 45.2.7.35.1)" before ".;" Response Status C Response Status C REVISEDChange first sentence of BEHAVIOUR DEFINED AS for REVISEDChange BEHAVIOUR DEFINED AS for aAutoNegUpshiftAttempts to read:The aAutoNegUpshiftPeriod to read:The period in seconds used to evaluate the number of link number of upshift attempts on the interface since Auto-Negotiation was enabled (see failures to trigger upshift(see 98D.2.6 mr period upshift). 98D.2.6 mr downshift upshift attempts).; # 168 C/ 30 SC 30.6.2.1.8 P28 / 38 C/ 45 SC 45.2.1.236a.2 P32 / 46 # 171 **Rockwell Automation** Brandt, David Rockwell Automation Brandt, David Comment Type Ε Comment Status A Comment Status A Management Comment Type Т Management Behaviour of aAutoNegDownshiftAttempts needs a reference for consistency. Transmit disable does not have a default. SuggestedRemedy SuggestedRemedy Add "(see 45.2.7.33.1)" before ".:" Add to end of paragraph: "The default value of bit 1.2300.14 is zero." Response Response Status C Response Response Status C REVISEDChange BEHAVIOUR DEFINED AS for aAutoNegDownshiftAttempts to ACCEPTED read: The number of downshift attempts on the interface (see 98D.2.6

mr downshift attempts).:

C/ 190 SC 190.11.4.3.2 P146 L46 # 172 C/ 190 SC 190.5.2 P121 L13 # 175 Brandt, David **Rockwell Automation** Brandt, David **Rockwell Automation** Comment Type Т Comment Status A ΕZ Comment Type т Comment Status A TX level Voltage 20 V should be 2.0 V. Non-symmetrical description with regard to standard and increased transmit levels. SuggestedRemedy SuggestedRemedy Change "20 V" to "2.0 V" Add at paragraph start; "If standard transmit level (i.e., 1.0 Vpp mode) is supported, the PHY shall transmit at 1.0 Vpp transmit Response Response Status C level in odd-numbered test modes. If standard transmit level is not supported, odd **ACCEPTED** numbered test modes are undefined " C/ 45 SC 45.2.1.236b.1 P33 L41 # 173 Response Response Status C Brandt David Rockwell Automation REVISEDAdd at paragraph start: "If standard transmit level is supported, the PHY shall transmit at the standard transmit level in odd-numbered test modes. If standard transmit Comment Type E Comment Status A F7 level is not supported, odd numbered test modes are undefined." Title is incomplete. C/ 190 SC 190.11.3 P142 L21 # 176 SuggestedRemedy Change "transmit/receive" to "Standard transmit/receive" Brandt. David Rockwell Automation Comment Type Comment Status A TX level Response Response Status C Non-symmetrical options with regard to standard and increased transmit levels. REVISEDSee comment 12. SuggestedRemedy C/ 45 SC 45.2.1.236b.1 P33 L43 # 174 Insert "*STL, 1.0 Vpp operating mode", 190.5.4.1, Standard transmit mode, O.1, Yes[] No[]" Brandt, David Rockwell Automation Response Response Status C Comment Type Ε Comment Status A Editorial ACCEPTED Grammar issue. C/ 190 SC 190.11.3 P142 L21 # 177 SuggestedRemedy Change "an standard transmit/receive" to "the standard transmit/receive" in the first and Brandt, David Rockwell Automation last line of paragraph. Comment Type Comment Status A TX level Response Response Status C Non-symmetrical options with regard to standard and increased transmit levels. **ACCEPTED** SuggestedRemedy Change Status "O" to "O.1". Response Response Status C **ACCEPTED**

Cl 190 SC 190.11.4.3.2 P146 L11 # [178

Brandt, David Rockwell Automation

Comment Type T Comment Status A TX level

Non-symmetrical options with regard to standard and increased transmit levels.

SuggestedRemedy

Insert "PMAE2, Odd numbered test modes, 190.5.2, Transmit 1.0 Vpp if standard transmoit level is supported, STL:M, Yes[]", and renumber subsequent PMAE*.

Response Status C

REVISEDInsert new PICS item at "PMAE2, Odd numbered test modes, 190.5.2, Transmit in standard transmit level, if standard transmit level is supported, STL:M, Yes[]", and renumber subsequent PMAE*.

Cl 190 SC 190.11.4.3.2 P146 L42 # 179

Brandt, David Rockwell Automation

Comment Type T Comment Status A TX level

Non-symmetrical options with regard to standard and increased transmit levels.

SuggestedRemedy

Change PMAE13 Status from: "!ITL:M" to "STL:M"

Response Response Status C

ACCEPTED

C/ 190 SC 190.11.4.3.2 P147 L15 # 180

Brandt, David Rockwell Automation

Comment Type T Comment Status A TX level

Non-symmetrical options with regard to standard and increased transmit levels.

SuggestedRemedy

Change PMAE18 Status from: "!ITL:M" to "STL:M" and add to end of Value/Comment "in standard transmit level mode".

Response Response Status C

ACCEPTED

Cl 190 SC 190.5.4.1 P123 L38 # 181

Brandt, David Rockwell Automation

Comment Type E Comment Status A TX level

Non-symmetrical options with regard to standard and increased transmit levels.

SuggestedRemedy

Change start of paragraph from "If 2.0 Vpp mode is supported, when testedÓ" to "When testedÓ"

Response Status C

REVISEDChange text at P123 L34 (190.5.4.1) as follows:start a new paragraph after "See 190.6.1." (2nd sentence of 190.5.4.1)Change text of the (currently 3rd sentence of 190.5.4.1) to read:If standard transmit level is supported, when tested with the test fixture shown in Figure 190023 with the transmitter in test mode 1, the transmitter output voltage shall be 1 V \$\bigsim 5\% peak-to-peak\$.

C/ 190 SC 190.5.1 P120 L33 # 182

Potterf, Jason Cisco

Comment Type T Comment Status R Link Segment

Clause 190 has no isolation requirements. Clause 40.6.1.1 Electrical isolation provides precedence and useful language to address this.

SuggestedRemedy

Insert the following text as a new section before Section 190.5.1

190.5.1 Electrical Isolation

A PHY with a MDI that is a PI (see 104.1.2) shall meet the isolation requirements defined in 104.6.1.

A PHY with a MDI that is not a PI shall provide electrical isolation between the port device circuits

including frame ground (if any) and all MDI leads. This electrical isolation shall meet the isolation

requirements as specified in J.1.2.

Response Status Z

REJECTED

This comment was WITHDRAWN by the commenter.

RS-FEC

Cl 190 SC 190.3.3.6.2 P82 L44 # 183

Slavick, Jeff Broadcom

Comment Type TR Comment Status A

mi,0 is the first bit transmitted from each message symbol. It is not necessarily the first bit transmitted in each codeword.

SuggestedRemedy

Insert "Within each message symbol" ahead of "mi,0 is the first bit transmitted".

Response Status C

ACCEPTED

C/ 190 SC 190.3.3.6.2 P83 L7 # 184

Slavick, Jeff Broadcom

Comment Type TR Comment Status A RS-FEC

pi,0 is the first bit transmitted from each message symbol. It is not the first bit transmitted in each codeword.

SuggestedRemedy

Insert "Within each parity symbol" ahead of "pi.0 is the first bit transmitted".

Response Status C

ACCEPTED

 CI 190
 SC 190.1
 P55
 L
 # 185

 Slavick, Jeff
 Broadcom

 Comment Type
 TR
 Comment Status A
 RS-FEC

The overview should be brief but precise. Including MDIO mapping at this point would be best to be avoided. While the transmission latency is larger the overall latency may or may not be increased.

SuggestedRemedy

Change:

This clause specifies an optional Reed-Solomon forward error correction (RS-FEC) capability. RS-FEC PHY capability is indicated using MDIO register bit 3.2296.14 or equivalent means if MDIO is not implemented. The request to use the RS-FEC capability is negotiated during startup. PHYs implementing RS-FEC request use of the capability by setting MDIO register bit 3.2297.14 to one. A 100BASE-T1L PHY that supports this capability may add RS-FEC parity bits to the transmitted data to offer enhanced burst noise protection at the expense of increased latency.

To

This clause specifies an optional Reed-Solomon forward error correction (RS-FEC) mode of operation. RS-FEC mode of operation is optional to implement and its use over a link segment is negotiated during startup. A 100BASE-T1L PHY operating in RS-FEC mode adds RS-FEC parity bits to the transmitted data to offer enhanced burst noise protection. The size of the PCS frame is larger when in RS-FEC mode of operation (see 190.3.3.1).

Response Status C

REVISED Change:This clause specifies an optional Reed-Solomon forward error correction (RS-FEC) capability. RS-FEC PHY capability is indicated using MDIO register bit 3.2296.14 or equivalent means if MDIO is not implemented. The request to use the RS-FEC capability is negotiated during startup. PHYs implementing RS-FEC request use of the capability by setting MDIO register bit 3.2297.14 to one. A 100BASE-T1L PHY that supports this capability may add RS-FEC parity bits to the transmitted data to offer enhanced burst noise protection at the expense of increased latency.To:This clause specifies an optional Reed-Solomon forward error correction (RS-FEC) mode of operation. RS-FEC mode of operation is optional to implement and its use over a link segment is negotiated during startup. A 100BASE-T1L PHY operating in RS-FEC mode adds RS-FEC parity bits to the transmitted data to offer enhanced burst noise protection. The size of the PCS frame is larger when in RS-FEC mode of operation (see 190.3.3.1) and increases PHY latency.

RS-FEC

C/ 190 P56 L40 SC 190.1.2 # 186 Slavick, Jeff Broadcom

Comment Type т Comment Status A

Comment Type TR

Slavick, Jeff

P56 Broadcom

L12

188

Adding a reference to where the negotiation takes place is useful. Additionally the amount of latency increase being significant is a relative term that some may view as insignificant

in the overall scheme of things.

SuggestedRemedy

Change:

Support for RS-FEC is optional. RS-FEC is enabled only if both PHYs advertise it. When RS-FEC is enabled, the two PHYs sharing a link segment add RS-FEC parity octets to each transmitted PCS frame to offer enhanced burst noise protection. RS-FEC results in a significant increase in latency.

To:

Support for RS-FEC is optional and is enabled only when both PHYs request its use (see 190.3.5.2.4). When RS-FEC is enabled, the two PHYs sharing a link segment add RS-FEC parity octets to each transmitted PCS frame to provide enhanced burst noise protection. Operating in RS-FEC mode typically results in an increase in PHY latency.

Response Response Status C

REVISED (commenter's revised text with the word typically removed - RS-FEC mode is specified in a way that doesn't just typically increase latency - it actually does.)Change:Support for RS-FEC is optional. RS-FEC is enabled only if both PHYs advertise it. When RS-FEC is enabled, the two PHYs sharing a link segment add RS-FEC parity octets to each transmitted PCS frame to offer enhanced burst noise protection. RS-FEC results in a significant increase in latency. To: Support for RS-FEC is optional and is enabled only when both PHYs request its use (see 190.3.5.2.4). When RS-FEC is enabled, the two PHYs sharing a link segment add RS-FEC parity octets to each transmitted PCS frame to provide enhanced burst noise protection. Operating in RS-FEC mode results in an increase in PHY latency.

C/ 190 SC 190.1.2 P 56 **L9** # 187 Slavick. Jeff Broadcom

Comment Type TR Comment Status A PCS

You add one extra bit of data to each PCS frame, not to each 16B/17B block. And the 15 in front of the 16B looks strange.

SuggestedRemedy

Change: "One auxiliary bit is added to every 15 16B/17B blocks to create a PCS frame consisting of 32 octets."

To: "A PCS frame consisting of 32 octets is formed from 16B/17B blocks. 15 in total, plus one auxilary bit."

Response Response Status C

ACCEPTED

C/ 190 SC 190.1.2

PCS

You add one extra bit of data to each PCS frame, not to each 64B/65B block. And th 15 in front of the 64B looks strange

Comment Status A

SuggestedRemedy

Change: "An auxiliary bit is added to each 15 64B/65B block resulting in 122 octets to which 6 RS-FEC parity octets are added to create a PCS frame consisting of 128 octets."

To: "A PCS frame of 128 octects is formed from 64B/65B block, 15 in total, plus one auxiliary bit resulting in 122 octets to which 6 RS-FEC parity octets are added."

Response Response Status C

REVISEDChange: "An auxiliary bit is added to each 15 64B/65B block resulting in 122 octets to which 6 RS-FEC parity octets are added to create a PCS frame consisting of 128 octets. "To: "A PCS frame is formed from 64B/65B blocks, 15 in total, plus one auxiliary bit resulting in 122 octets to which six RS-FEC parity octets are added, resulting in 128 octets."

C/ 190 SC 190.1.2 P56 L22 # 189 Slavick, Jeff Broadcom

Comment Type Comment Status A Editorial

contained in the PCS is refering to they're part of the PCS functionality?

SuggestedRemedy

Change "contained in the PCS" with "functions of the PCS"

Response Response Status C

ACCEPTED

C/ 190 SC 190.1.2.3 P58 L13 # 190

Slavick, Jeff Broadcom

Comment Type TR Comment Status R Editorial

What does "adapts signaling" mean in the context of EEE?

SuggestedRemedy

Change "adapts" to "limits" or "stops"

Response Response Status C

REJECTED CRG disagrees with commenter. "adapts signalling" is correct and consistent with several other clauses with similar EEE modes in IEEE Std 802.3-2022. Signalling is changed (or 'adapted') to a quiet-refresh format, not stopped or 'limited". Using different language here would suggest something different is done.

C/ 190 SC 190.1.3 P58 L39 # 191 Slavick, Jeff Broadcom Comment Type Ε Comment Status A ΕZ Some extra "the" before normal mode and training mode SuggestedRemedy Remove the two "the" before normal mode and training mode. Response Response Status C **ACCEPTED** C/ 190 SC 190.3.5.2 P92 L 20 # 192 Slavick, Jeff Broadcom Comment Type Т Comment Status A PCS

What is a Low latency PCS frame? I don't see this term anywhere but in Figure 190-7

SuggestedRemedy

In Figure 190-7 change:

"low lateny" to "256b"

"Burst error protectioin" to "1024b"

"I I " to "32B"

Response Response Status C

REVISED Remove "Low Latency PCS frames" and "Burst error protection PCS frames" lines and labels from Figure 190-7. (lines 20-25 and lines 36-41).

C/ 190 SC 190.3.5.2.4 P94 / 49 # 193 Broadcom

Slavick, Jeff

Comment Type TR Comment Status R

The bar to enable EEE mode of operation is quite high in that both sides must request it's operation.

SuggestedRemedy

Update it so you pass along both request and ability in the PHY capability bits for EEE. And make it so EEE mode is activated when both PHYs have the ability and one of the requests it to be enabled.

This would be done by renaming eee adv to eee ap and assigning eee cap to be mapped from 3.2296.15 and assigning Oct10<3> to be eee reg which is mapped to 3.2297.15. And then updating the resolution to be if eee cap of transmit and received are both 1 and eee reg (Oct10<3>) is a one in either the transmit or received capability bits EEE mode is enabled.

Response Response Status C

REJECTED CRG disagrees with commenter. The 'high bar' for using EEE is intentional. Target applications such as industrial applications are more stringent in timing and latency requirements, and the use of EEE which may impact application requirements.

C/ 190 P94 L50 SC 190.3.5.2.4 # 194 Slavick, Jeff Broadcom

Comment Type TR Comment Status R RS-FEC The bar to enable RS-FEC mode of operation is guite high in that both sides must request

it's operation. SuggestedRemedy

Update it so you pass along both request and ability in the PHY capability bits for RS-FEC. And make it so RS-FEC mode is activated when both PHYs have the ability and one of the requests it to be enabled.

This would be done by renaming rs adv to rs ap and assigning rs cap to be mapped from 3.2296.14 and assigning Oct10<2> to be rs reg which is mapped to 3.2297.14. And then updating the resolution to be if rs cap of transmit and received are both 1 and rs reg (Oct10<2>) is a one in either the transmit or received capability bits RS-FEC mode is enabled.

Response Response Status C

REJECTED CRG disagrees with commenter. The 'high bar' for using RS-FEC is intentional. Target applications such as industrial applications are more stringent in the use of the higher-latency, or increased burst error tolerance, as these may impact application requirements.

C/ 190 SC 190.3.7.1.2 P103 L2 # 195 Slavick, Jeff Broadcom

Comment Status A Comment Type State diagrams When is rf valid false?

SuggestedRemedy

FFF

Define when rf valid is false.

Response Response Status C

REVISEDReplace "Boolean indication that is set TRUE if the received RS-FEC is valid. The RS-FEC frame is valid if the message as defined in 190.3.3.6.2 can be decoded." with "Boolean variable that is set TRUE if the received RS-FEC codeword can be successfully decoded. The variable rf valid is set to FALSE if the received RS-FEC codeword cannot be corrected."

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 195

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C/ 190 SC 190.3.3.5 P80 L 13 C/ 190 P108 L32 # 196 SC 190.3.7.2 # 199 Slavick, Jeff Broadcom Slavick, Jeff Broadcom Comment Type ER Comment Status A ΕZ Comment Type Ε Comment Status A ΕZ "See Table 190-1" is not a hyperlink to the table There should be a d at the end of enable in the NOTE SuggestedRemedy SuggestedRemedy Fix the link Change "when EEE is enable" to "when EEE is enabled" in NOTES in both part a & b of Figure 190-4 Response Response Status C Response Response Status C **ACCEPTED** ACCEPTED Change "when EEE is enable" to "when EEE is enabled" in NOTEs in both part a & b of Figure 190-13, p107 and p108. C/ 190 SC 190.3.7.1.2 P101 L 5 # 197 Slavick, Jeff Broadcom C/ 190 SC 190.3.7.1.2 P101 L47 # 200 Comment Type TR Comment Status A State diagrams Slavick, Jeff Broadcom rx char is supposedly a struct of a Boolean and an 8bit field. But later it calls it a 9-bit Comment Type TR Comment Status A I PI character and the encoding tables don't use True/False for Data v. Control encoding. And Mixing definition and FSM setting of a variable should be avoided. no mapping of is provided for whether Data is a 1 or Control is 1. So is it truly a 1b field plus an 8b field? Or is it an Enum for Data and Control and a mapping of which is which is SuggestedRemedy needed. Change the last sentence of the rx lpi active definition from: "The parameter is set to its SuggestedRemedy default value (FALSE) in each state of the PCS Receive state diagram of Figure 190113 where it is not explicitly set TRUE." Change "boolean value" to "enumeration" 3 times in the definition of rx char and add "(1)" To: "The parameter is TRUE when the PCS Receive state diagram Figure 190-13 is in the after data and "(0)" after control in the 3rd sentence RX LPI state and FALSE otherwise." Response Response Status C Remove the assignment of rx lpi active from the RX LPI state in Figure 190-13 part b **ACCEPTED** Response Response Status C **ACCEPTED** C/ 190 SC 190.3.7.1.2 P101 L13 # 198 Slavick, Jeff Broadcom C/ 190 P101 SC 190.3.7.1.2 L45 # 201 F7 Comment Type E Comment Status A Slavick. Jeff Broadcom 2 is less than ten, spell it out. Comment Status A Comment Type TR Editorial SuggestedRemedy rx lpi active is a Boolean is it not? Change 2 to two SuggestedRemedy Response Response Status C Begin the definition of rx lpi active with the word Boolean ACCEPTED Response Response Status C REVISED Change "Variable set" to "Boolean variable set"

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 201

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I PI

 CI 190
 SC 190.3.7.1.2
 P102
 L14
 # 202

 Slavick, Jeff
 Broadcom

 Comment Type
 TR
 Comment Status A
 LPI

Does tx_alert_start_next assert to TRUE for every possible valid position or just some of them?

SuggestedRemedy

Change "before any" to "prior to the"

Response Response Status C

REVISED Change "before any" to "before each"

C/ 190 SC 190.3.7.1.2 P102 L22 # 203

Slavick, Jeff Broadcom

Comment Type TR Comment Status A LPI

Mixing definition and FSM setting of a variable should be avoided.

SuggestedRemedy

Change the definition of tx lpi enable to be:

"Boolean variable that is TRUE when the PCS (8N)B/(8N+1)B Transmit state diagram Figure 190-11 is in the TX SLEEP state and FALSE otherwise."

Remove tx lpi enable <= TRUE from Figure 190-11

Response Status C

ACCEPTED

Cl 190 SC 190.3.7.1.2 P102 L14 # 204

Slavick, Jeff Broadcom

Comment Type TR Comment Status A

Does tx_sleep_start_next assert to TRUE for every possible valid position or just some of them?

SuggestedRemedy

Change "prior to any" to "prior to the"

Response Status C

REVISED Change "before any" to "before each"Comment references the wrong line for "tx sleep start next" - should reference line 44.

C/ 98B SC 98B.3 P150 L10 # 205

Murray, Brian Analog Devices

Comment Type T Comment Status A Late

Technology ability fields require some organization to allow for future growth and ease of use. Organization was introduced in

https://www.ieee802.org/3/dg/public/May 2025/Curran 3dg 01 09162025.pdf.

SuggestedRemedy

Incorporate changes shown in Curran 3dg 01a 11102025.pdf

Response Response Status C
ACCEPTED

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 205

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