

Management Parameters for 10 Mb/s Operation over Single Balanced Twisted-pair Cabling and Associat

Cl 00 SC P3 L4 # 1
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 MediumDependent Interface
 SuggestedRemedy
 Medium Dependent Interface
 Proposed Response Response Status O

Cl 00 SC P3 L5 # 2
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 physical layer (in Keywords section most of the words start with a capital letter, should be uniform)
 SuggestedRemedy
 Physical Layer
 Proposed Response Response Status O

Cl 01 SC 1.5 P24 L32 # 3
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 PLCS
 SuggestedRemedy
 PLCA
 Proposed Response Response Status O

Cl 45 SC 45.2.1.174c P36 L13 # 4
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type T Comment Status X
 0 1 1 = Reserved (in 146.5.2 a third test mode for the PSD mask test has been added, which is sending Idles in Master mode, therefore it makes sense to be able to enable this also through the test mode register)
 SuggestedRemedy
 0 1 1 = Test mode 3
 Proposed Response Response Status O

Cl 104 SC 104.9.4.3 P76 L44 # 5
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 With transfer function H2(f) specified in Equation (104-3) where f2=0.1 MHz ±1%
 SuggestedRemedy
 Change in H2(f) the 2 in subscript. Change f2=0.1 MHz ±1% to f2 = 0.1 MHz ± 1 % (with the 2 in f2 in subscript).
 Proposed Response Response Status O

Cl 104 SC 104.9.4.4 P77 L11 # 6
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 146.8.xxx (reference needs to be specified)
 SuggestedRemedy
 146.8.4
 Proposed Response Response Status O

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Cl 146 SC 146.1 P 79 L 19 # 7

Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X

10BASE-T1LPHY (add space before PHY)

SuggestedRemedy

10BASE-T1L PHY

Proposed Response Response Status O

Cl 146 SC 146.1.2 P 81 L 22 # 11

Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X

There is a wrong paragrah separation between line 22 and line 24.

SuggestedRemedy

Remove the "new paragraph" formatting between line 22 and line 24.

Proposed Response Response Status O

Cl 146 SC 146.1.2 P 81 L 3 # 8

Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X

... link utilization.. (remove second dot)

SuggestedRemedy

... link utilization.

Proposed Response Response Status O

Cl 146 SC 146.2 P 82 L 20 # 12

Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X

Technology Dependent Interface

SuggestedRemedy

Remove the Technology Dependent Interface and associated primitives.

Proposed Response Response Status O

Cl 146 SC 146.1.2 P 81 L 11 # 9

Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X

The MDI is specified in 146.8.. (remove second dot)

SuggestedRemedy

The MDI is specified in 146.8.

Proposed Response Response Status O

Cl 146 SC 146.2 P 82 L 26 # 13

Graber, Steffen Pepperl+Fuchs GmbH

Comment Type T Comment Status X

The TX_CLK arrow has the wrong direction (signal direction should go from PCS to MII)

SuggestedRemedy

Change arrow direction for TX_CLK signal.

Proposed Response Response Status O

Cl 146 SC 146.1.2 P 81 L 17 # 10

Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X

... in the Task Force review process.. (remove second dot)

SuggestedRemedy

... in the Task Force review process.

Proposed Response Response Status O

Cl 146 SC 146.2 P 82 L 27 # 14

Graber, Steffen Pepperl+Fuchs GmbH

Comment Type T Comment Status X

TXD<7:0> (MII is only 4 bits wide)

SuggestedRemedy

TXD<3:0>

Proposed Response Response Status O

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Cl 146 SC 146.2 P 82 L 36 # 15
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X
MDI+, MDI- signals are named BI_DA+ and BI_DA- in the rest of the document

SuggestedRemedy

Change MDI+, MDI- to BI_DA+, BI_DA-

Proposed Response Response Status O

Cl 146 SC 146.2 P 82 L 37 # 16
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type T Comment Status X
RXD<7:0> (MII is only 4 bits wide)

SuggestedRemedy

RXD<3:0>

Proposed Response Response Status O

Cl 146 SC 146.2.1 P 83 L 17 # 17
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X
Chapter headlines 146.2.1 to 146.2.2.3

SuggestedRemedy

Please remove these chapter headlines.

Proposed Response Response Status O

Cl 146 SC 146.3.4.1 P 95 L 3 # 18
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type T Comment Status X
(pcs_reset = ON) + (receiving = FALSE) * [(loc_rcvr_status = NOT_OK) + (link_status = FAIL) + (rcv_jab_detected = TRUE)]

SuggestedRemedy

Change to (pcs_reset = ON) + [(receiving = FALSE) * [(loc_rcvr_status = NOT_OK) + (link_status = FAIL) + (rcv_jab_detected = TRUE)]]

Proposed Response Response Status O

Cl 146 SC 146.3.4.1 P 95 L 3 # 19
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type T Comment Status X
An additional state ("WAIT SCRAMBLER") for descrambler synchronization is required for the state machine to wait until the descrambler is in sync before going into "IDLE" state. Otherwise in case the descrambler is not synchronized, it is possible that the state machine hangs in "BAD DELIMITER" state until jabber is detected and the state machine is resetted. Then the state machine is in "IDLE" state again, but not receiving valid idle data as the descrambler is not synchronized. In this case the state machine jumps from the "IDLE" state into "BAD DELIMITER" state again without syncing the descrambler, thus ending up in an endless loop.

SuggestedRemedy

Add additional state "WAIT SCRAMBLER" as described in presentation "PCS Receive State Diagram" to the PSC receive state diagram.

Proposed Response Response Status O

Cl 146 SC 146.3.4.1 P 95 L 28 # 20
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X
RSTCD * (valid_dispreset =FALSE) (add space before FALSE)

SuggestedRemedy

RSTCD * (valid_dispreset = FALSE)

Proposed Response Response Status O

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Cl 146 SC 146.3.4.1 P 96 L 36 # 21
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 RSTCD *(Rxn = ESD_ERR4) (missing space before opening bracket)
 SuggestedRemedy
 RSTCD * (Rxn = ESD_ERR4)
 Proposed Response Response Status O

Cl 146 SC 146.4.4.3 P 105 L 1 # 25
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 State diagram. (remove dot)
 SuggestedRemedy
 State diagram
 Proposed Response Response Status O

Cl 146 SC 146.4.4.1 P 104 L 16 # 22
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 Misalignment of 'detected.'
 SuggestedRemedy
 Please align the word 'detected.' below 'Reliable operation ...'.
 Proposed Response Response Status O

Cl 146 SC 146.5.1 P 106 L 46 # 26
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 EMC tests. (remove dot)
 SuggestedRemedy
 EMC tests
 Proposed Response Response Status O

Cl 146 SC 146.4.4.2 P 104 L 40 # 23
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 Missing new line before 'maxwait_timer'
 SuggestedRemedy
 Add new line before 'maxwait_timer' to have the same style as for other sections.
 Proposed Response Response Status O

Cl 146 SC 146.5.4.1 P 108 L 35 # 27
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 ... peak-to-peak in using normal driving levels ... (remove 'in')
 SuggestedRemedy
 ... peak-to-peak using normal driving levels ...
 Proposed Response Response Status O

Cl 146 SC 146.4.4.2 P 104 L 43 # 24
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 Missing new line before 'minwait_timer'
 SuggestedRemedy
 Add new line before 'minwait_timer' to have the same style as for other sections.
 Proposed Response Response Status O

Cl 146 SC 146.5.4.1 P 108 L 42 # 28
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 Default setting is to use Auto-Negotiation (missing dot at the end of the sentence)
 SuggestedRemedy
 Default setting is to use Auto-Negotiation.
 Proposed Response Response Status O

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CI 146 SC 146.5.4.2 P 108 L 48 # 29
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type T Comment Status X
 See also 146.5.5 for normalized test pattern. (there are no more normalized test patterns as they have been replaced by a PSD mask definition).
 SuggestedRemedy
 Please remove sentence.
 Proposed Response Response Status O

CI 146 SC 146.5.4.4 P 109 L 7 # 30
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 (normal operation) add 'in Idle mode' to be consistent with the description of the test mode on page 107, line 30.
 SuggestedRemedy
 (normal operation in Idle mode)
 Proposed Response Response Status O

CI 146 SC 146.5.4.4 P 109 L 8 # 31
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 ... for the 2.4 Vpp operating mode ... (it seems to make sense to add also a reference to the mode using normal driving levels, as this is described in other parts of the standard).
 SuggestedRemedy
 ... for the 2.4 Vpp operating mode using normal driving levels ...
 Proposed Response Response Status O

CI 146 SC 146.5.4.4 P 109 L 8 # 32
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 ... operating mode and and 1.2 ± 1.0 dBm ... (remove second 'and')
 SuggestedRemedy
 ... operating mode and 1.2 ± 1.0 dBm ...
 Proposed Response Response Status O

CI 146 SC 146.5.4.4 P 109 L 8 # 33
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 ... for the 1.0 Vpp operating mode. (it seems to make sense to add also a reference to the mode using reduced driving levels, as this is described in other parts of the standard).
 SuggestedRemedy
 ... for the 1.0 Vpp operating mode using reduced driving levels.
 Proposed Response Response Status O

CI 146 SC 146.5.4.4 P 109 L 9 # 34
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 ... using the test fixture 2 shown in Figure 146-18 ... (it seems to make sense to remove the '2' as the text fixture is already described by the reference to Figure 146-18 or alternatively also name the Figure 146-18 accordingly)
 SuggestedRemedy
 ... using the test fixture shown in Figure 146-18 ...
 Proposed Response Response Status O

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Cl 146 SC 146.5.4.4 P 109 L 13 # 35
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 ... are considered in PSD measurement. (add 'the' before 'PSD measurement')
 SuggestedRemedy
 ... are considered in the PSD measurement.
 Proposed Response Response Status O

Cl 146 SC 146.5.4.4 P 109 L 40 # 36
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 square brackets in Equation (146-7)
 SuggestedRemedy
 Please remove the square brackets in Equation (146-7)
 Proposed Response Response Status O

Cl 146 SC 146.5.4.4 P 109 L 51 # 37
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 square brackets in Equation (146-9)
 SuggestedRemedy
 Please remove the square brackets in Equation (146-9)
 Proposed Response Response Status O

Cl 146 SC 146.5.4.4 P 110 L 1 # 38
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 ... is the frequency in MHz (add dot at the end of the sentence)
 SuggestedRemedy
 ... is the frequency in MHz.
 Proposed Response Response Status O

Cl 146 SC 146.5.4.4 P 110 L 11 # 39
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type T Comment Status X
 Lower PSD mask for 2.4 Vpp and 1.0 Vpp shows a wrong corner frequency of 4 MHz instead of 2.5 MHz (therefore also the PSD values at 5 MHz are too high)
 SuggestedRemedy
 Please change drawing to fit Equations (146-7) and (146-9).
 Proposed Response Response Status O

Cl 146 SC 146.5.5.3 P 111 L 33 # 40
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 ... within the PHY into account.. (remove second dot)
 SuggestedRemedy
 ... within the PHY into account.
 Proposed Response Response Status O

Cl 146 SC 146.5.6 P 111 L 46 # 41
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 When measured with $100\ \Omega \pm 0.1\%$ termination, transmit differential signal at MDI shall be ... (add 'the' before 'transmit' and 'the' before 'MDI')
 SuggestedRemedy
 When measured with $100\ \Omega \pm 0.1\%$ termination, the transmit differential signal at the MDI shall be ...
 Proposed Response Response Status O

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CI 146 SC 146.6.2 P 113 L 9 # 42
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X
... can be selected by setting bits 1.2100.14 (BASE-T1L PMA/PMD Control Register) ... (change 'bits' to 'bit' and BASE-T1L to BASE-T1, as this is the universal register for the BASE-T1 PHYs)

SuggestedRemedy

... can be selected by setting bit 1.2100.14 (BASE-T1 PMA/PMD Control Register) ...

Proposed Response Response Status O

CI 146 SC 146.6.3 P 113 L 22 # 43
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type T Comment Status X
Only a few of the relevant registers are given in Table 146-4, other registers are missing.

SuggestedRemedy

Change Table 146-4 according to presentation "MDIO Register Mapping"

Proposed Response Response Status O

CI 146 SC 146.7.1.3 P 115 L 37 # 44
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X
Maximum link delay (TBD) (remove (TBD))

SuggestedRemedy

Maximum link delay

Proposed Response Response Status O

CI 146 SC 146.7.1.3 P 115 L 39 # 45
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type T Comment Status X
8834 ns (this value is calculated back from AWG14 cable insertion loss, thus estimating a maximum possible length of 1589 m with 5.6 ns per m; typically AWG14 cable has a higher RL than AWG18 cable, thus the IL is due to reflections at the MDI also higher and the possible reach is lower; suggestion is to calculate with a maximum link segment length of 1500 m with 5.6 ns per m, which leads to 8400 ns of maximum link delay time; when changing the maximum link delay time, also the timer values of Clause 98 have to be adopted accordingly, see therefore also presentation "Clause 98 Timer Values").

SuggestedRemedy

Define 8400 ns and change the low speed mode timer values mentioned in presentation "Clause 98 Timer Values" within the draft on pages 59 to 61 and in the respective PICS on pages 64 and 65.

Proposed Response Response Status O

CI 146 SC 146.8.3 P 119 L 8 # 46
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X
Return loss (add (f) after Return loss, to align this Equation with other Equations with frequency dependency within this standard draft)

SuggestedRemedy

Return loss(f)

Proposed Response Response Status O

CI 146 SC 146.1 P 121 L 39 # 47
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status X
... current implementation on evaluation board takes about 20 bit times maximum). This is a reference to an example implementation, please remove this text.

SuggestedRemedy

Remove text "current implementation on evaluation board takes about 20 bit times maximum")"

Proposed Response Response Status O

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CI 146 SC 146.11.4.1.1 P 124 L 28 # 48
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 Convert Sdn[3:0] to ternary pair (replace pair by triplet (4B3T coding instead of 3B2T coding is being used for 10BASE-T1L))
 SuggestedRemedy
 Convert Sdn[3:0] to ternary triplet
 Proposed Response Response Status O

CI 146 SC 146.11.4.1.3 P 126 L 6 # 49
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type T Comment Status X
 The PCS shall be placed in loopback mode when the loopback bit in MDIO register 3.0.14, defined in 45.2.3.1.2 is set to a one. (There is an additional bit, 3.2278.14, which is defined in the PHY specific register set, with the same loopback functionality.)
 SuggestedRemedy
 The PCS shall be placed in loopback mode when the loopback bit in MDIO register 3.0.14, defined in 45.2.3.1.2, or the loopback bit in MDIO register 3.2278.14, defined in 45.2.3.58a.2, is set to a one.
 Proposed Response Response Status O

CI 146 SC 146.11.4.2.1 P 126 L 37 # 50
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 146.4.2 (font size does not fit)
 SuggestedRemedy
 Align font size with rest of the text.
 Proposed Response Response Status O

CI 146 SC 146.11.4.2.1 P 126 L # 51
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type T Comment Status X
 Contribute to the receive fault bit specified in 45.2.1.7.5 (PHY specific register is missing)
 SuggestedRemedy
 Contribute to the receive fault bit specified in 45.2.1.7.5 and 45.2.1.174b.7
 Proposed Response Response Status O

CI 146 SC 146.11.4.2.2 P 128 L 5 # 52
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 ... by setting bits 1.2294.12 as ... (change 'bits' to 'bit')
 SuggestedRemedy
 ... by setting bit 1.2294.12 as ...
 Proposed Response Response Status O

CI 146 SC 146.11.4.2.2 P 128 L 26 # 53
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 ... for the 1 Vpp transmit amplitude ... (everywhere else in the standards draft 1.0 Vpp is being used)
 SuggestedRemedy
 ... for the 1.0 Vpp transmit amplitude ...
 Proposed Response Response Status O

CI 146 SC 146.11.4.6 P 130 L 26 # 54
 Graber, Steffen Pepperl+Fuchs GmbH
 Comment Type E Comment Status X
 Less than 6.2 µs (64 bit times) (should be 6.4 µs instead of 6.2 µs)
 SuggestedRemedy
 Less than 6.4 µs (64 bit times)
 Proposed Response Response Status O

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Cl 147 **SC 147.2.2.2** **P 135** **L 5** # **55**
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type **E** **Comment Status** **X**
 ... if such error is detected, a ESDERR symbol is sent

SuggestedRemedy
 ... if this error is detected, then an ESDERR symbol is sent

Proposed Response **Response Status** **O**

Cl 146 **SC 146A** **P 175** **L 13** # **56**
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type **T** **Comment Status** **X**
 As specific references in Annex 146A to other standards are critical to maintain, when the other standards change, they should be avoided and a more generic text should be used.

SuggestedRemedy
 Replace text on page 175 by text provided in presentation "Intrinsically Safe Applications".

Proposed Response **Response Status** **O**

Cl 00 **SC** **P 3** **L 1** # **57**
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type **E** **Comment Status** **X**
 ... specifies additions to and appropriate modifications to add 10 Mb/s ... (remove 'to' after 'additions')

SuggestedRemedy
 ... specifies additions and appropriate modifications to add 10 Mb/s ...

Proposed Response **Response Status** **O**

Cl 00 **SC** **P 3** **L 4** # **58**
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type **E** **Comment Status** **X**
 copper (in Keywords section most of the words start with a capital letter, should be uniform)

SuggestedRemedy
 Copper

Proposed Response **Response Status** **O**

Cl 00 **SC 0** **P 11** **L 48** # **59**
 Maguire, Valerie The Siemon Company

Comment Type **E** **Comment Status** **X**
 There are two companion documents. Pete Anslow has provided proposed text.

SuggestedRemedy
 Replace, "A companion document IEEE Std 802.3.2 defines YANG modules for legacy shared (CSMA/CD) and dedi-cated links in point-to-point and point-to-multipoint architectures (Ethernet Passive Optical Networks, EPON), as well as Power over Ethernet (PoE) ports." with "Two companion documents exist, IEEE Std 802.3.1 and IEEE Std 802.3.2. IEEE Std 802.3.1 describes Ethernet management information base (MIB) modules for use with the Simple Network Management Protocol (SNMP). IEEE Std 802.3.2 describes YANG data models for Ethernet. IEEE Std 802.3.1 and IEEE Std 802.3.2 are updated to add management capability for enhancements to IEEE Std 802.3 after approval of those enhancements."

Proposed Response **Response Status** **O**

Cl 00 **SC 0** **P 11** **L 26** # **60**
 Maguire, Valerie The Siemon Company

Comment Type **E** **Comment Status** **X**
 It's recommended to flag the new frontmatter text with an editor's note so that this material will be sure to be reviewed when the document goes out for Working Group review.

SuggestedRemedy
 Insert Editors note with the text, "Editor's Note: New front matter text needs review."

Proposed Response **Response Status** **O**

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CI 146 SC 146.7.1.4 P 115 L 42 # 61
Maguire, Valerie The Siemon Company

Comment Type T Comment Status X

Be clear that the parameter of differential to common mode conversion applies to unshielded cabling only.

SuggestedRemedy

Change the sub-clause header from, "146.7.1.4 Differential to common mode conversion" to "146.7.1.4 Differential to common mode conversion (unshielded only)".

Proposed Response Response Status O

CI 146 SC 146.7.1.4 P 115 L 43 # 62
Maguire, Valerie The Siemon Company

Comment Type T Comment Status X

Align the structure of the first sentence in clause 146.7.1.4 with the first sentence of 146.7.1.5.

SuggestedRemedy

Replace, "requirements of unshielded link segments" with "requirements of the unshielded link segment".

Proposed Response Response Status O

CI 146 SC 146.7.1.5 P 116 L 13 # 63
Maguire, Valerie The Siemon Company

Comment Type T Comment Status X

Be clear that the parameter of coupling attenuation applies to shielded cabling only.

SuggestedRemedy

Change the sub-clause header from, "146.7.1.5 Coupling attenuation" to "146.7.1.5 Coupling attenuation (shielded only)" and change the text on line 14 from "of the link segment" to "of the shielded link segment".

Proposed Response Response Status O

CI 00 SC 0 P 11 L 36 # 64
Maguire, Valerie The Siemon Company

Comment Type E Comment Status X

Overview of amendment is incorrect. Update with new text provided by David Law.

SuggestedRemedy

Replace, "This amendment increases the maxi-mum PD power available by utilizing all four pairs in the specified structured wiring plant." with "This amendment adds power delivery using all four pairs in the structured wiring plant, resulting in greater power being available to end devices. This amendment also allows for lower standby power consumption in end devices and adds a mechanism to better manage the available power budget."

Proposed Response Response Status O

CI 00 SC 0 P 11 L 41 # 65
Maguire, Valerie The Siemon Company

Comment Type E Comment Status X

Overview of amendment is incorrect. Update with new text provided by David Law.

SuggestedRemedy

Replace, "This amendment includes changes to IEEE Std 802.3-201x and its amendments, and adds Clause 136 through Clause 140, Annex 135A, Annex 135B, Annex 135C, Annex 135D, Annex 135E, Annex 135F, Annex 135G, Annex 136A, Annex 136B, Annex 136C, and Annex 136D. This amendment adds new Media Access Control (MAC) parameters, Physical Layer specifications, and management parameters for the transfer of IEEE 802.3 format frames at 50 Gb/s, 100 Gb/s, and 200 Gb/s." with "This amendment includes changes to IEEE Std 802.3-201x and its amendments, and adds Clause 131 through Clause 140 and Annex 135A through Annex 136D. This amendment adds MAC parameters, Physical Layers, and management parameters for the transfer of IEEE 802.3 format frames at 50 Gb/s, 100 Gb/s, and 200 Gb/s."

Proposed Response Response Status O

CI 147 SC 147.4.1.3.2 P 147 L 29 # 66
Maguire, Valerie The Siemon Company

Comment Type E Comment Status X

Typo

SuggestedRemedy

Replace, "UppePSD" with "UpperPSD" in equation (147-1).

Proposed Response Response Status O

Management Parameters for 10 Mb/s Operation over Single Balanced Twisted-pair Cabling and Associat

Cl 147 **SC 147.6.3** **P 150** **L 29** # **67**

Maguire, Valerie The Siemon Company

Comment Type E **Comment Status X**

Capitalization error

SuggestedRemedy

Replace, "ModeconversionLoss" with "ModeConversionLoss" in equation (147-5).

Proposed Response **Response Status O**

Cl 146 **SC 146.8.3** **P 119** **L 8** # **70**

Hormmeyer, Bernd Phoenix Contact

Comment Type TR **Comment Status X**

Formula 146-16 results in negative value for maximum frequency of 20 MHz

SuggestedRemedy

correct formula

Proposed Response **Response Status O**

Cl 146 **SC 146.7.1.1** **P 114** **L 20** # **68**

Hormmeyer, Bernd Phoenix Contact

Comment Type ER **Comment Status X**

Graph starts at approximately 5 dB. Smallest value when calculating insertion loss by Equation (146-14) is 10.3 dB

SuggestedRemedy

Change the smallest value of the graph to 10.3 dB

Proposed Response **Response Status O**

Cl 146 **SC 146.7.1.2** **P 114** **L 49** # **71**

Schicketanz, Dieter Reutlingen University

Comment Type T **Comment Status X**

Editors note:

SuggestedRemedy

If agreed match values below 1 MHz to: 15 dB down to 0.6 MHz; 9+10f from .1 to .6 MHz

Proposed Response **Response Status O**

Cl 146 **SC 146.7.1.2** **P 115** **L 8** # **69**

Hormmeyer, Bernd Phoenix Contact

Comment Type T **Comment Status X**

Why does specified range starts at 0.1 MHz? When measuring in such a low frequency range, measuring dynamics can become crucial

SuggestedRemedy

If the frequency range is necessary, specify it but do not require a measurement at low frequencies

Proposed Response **Response Status O**

Cl 146 **SC 146.7.1.2** **P 114** **L 49** # **72**

Schicketanz, Dieter Reutlingen University

Comment Type T **Comment Status X**

Editors note:

SuggestedRemedy

If not agreed the comment presented for draft 1.0 should be adaptet to change RI between 10 to 20 MHz from 19 to 24-5log(f)

Proposed Response **Response Status O**

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CI 146 SC 146.7.1.6 P 116 L 42 # 73
Schicketanz, Dieter Reutlingen University

Comment Type T Comment Status X

Table 146-7 shows some TBD , and comments before relating that values need to be found. If We refer to the MICE Table with the known E1, E2, and E3 the values are given in international Standards.If we want other values we cannot call them Ex anymore.

SuggestedRemedy

Leave the table as in Draft 1.0 and add the rows with static discharge and transient burst. It was mentioned in Geneva that they were missing. Add a note below the Table note:There is a transition below 100 MHz in measurements because it gets unrealistic to measure down to .1 MHz; it would need setups in the 100m range. For coupling attenuation and shielding effectiveness it can be assumed that the limits below 30 MHz will never be lower. For differential to common mode conversion it is similar because the values are measured usually at short length.

Proposed Response Response Status O

CI 146 SC 146.7.1.4 P 115 L 50 # 74
Schicketanz, Dieter Reutlingen University

Comment Type T Comment Status X

editors notes on page 115,116

SuggestedRemedy

Delete editors notes and replace Tables 146-5 and 146-6 with the values presented in Schicketanz_122017_10SPE_01_adhoc.pdf pages 7 and 8

Proposed Response Response Status O

CI 146 SC 146.7.2.3 P 117 L 41 # 75
Schicketanz, Dieter Reutlingen University

Comment Type E Comment Status X

There is a change in alien FEXT specification. Till now IEEE802.3 specified PSAACR-F. For the first time now PSAFEXT limit is specified. The advantage is that no power backoff is necessary anymore but puts the burden on the components and installation.

SuggestedRemedy

To avoid misunderstandings this should be mentioned with a note after the introduction at line 45. Note: This is an improved definition not to be confused with PSAACR-F.

Proposed Response Response Status O

CI 146 SC 146.8.1 P 118 L 28 # 76
Schicketanz, Dieter Reutlingen University

Comment Type T Comment Status X

MDI Connectors. Liaison letters were send out to this subject. Responses should be included in the discussion.

SuggestedRemedy

Responses should be included in the discussion before making decisions.

Proposed Response Response Status O

CI 147 SC 147.6 P 150 L 1 # 77
Schicketanz, Dieter Reutlingen University

Comment Type T Comment Status X

There are no link specifications for multidrop, link length and number of connections are missing also. 25m with 8 drops is a challenging target.

SuggestedRemedy

As the values till now are the same for both add in the Title multidrop. Add below that the link length is 15 m and number of connections is 4 for point-to-point and 25m and no additional connections for multidrop. Introductory words like in T1L page 113 would be useful . (no additional connections means that only the drops will disturb)

Proposed Response Response Status O

CI 147 SC 147.6 P 150 L 36 # 78
Schicketanz, Dieter Reutlingen University

Comment Type T Comment Status X

The complete clause needs some wording and explanations for mode conversion and limits for Alien Noise.

SuggestedRemedy

Rewrite the complete clause using 802.3bw clause 147.6 as guidance (adding alien noise).

Proposed Response Response Status O

Management Parameters for 10 Mb/s Operation over Single Balanced Twisted-pair Cabling and Associat

Cl 147 SC 147.6 P 150 L 52 # 79
 Schicketanz, Dieter Reutlingen University
 Comment Type T Comment Status X
 MDI Clause missing
 SuggestedRemedy
 copy MDI clause 96.8 from 802.3bw
 Proposed Response Response Status O

Cl 147 SC 147.6 P 150 L 52 # 80
 Schicketanz, Dieter Reutlingen University
 Comment Type T Comment Status X
 Environmental specification clause missing
 SuggestedRemedy
 copy clause 96.9 from 802.3bw
 Proposed Response Response Status O

Cl 200 SC 200A.1 P 179 L 1 # 81
 Schicketanz, Dieter Reutlingen University
 Comment Type T Comment Status X
 Annex 200 contains useful information but they are informative. Only clause 200A.1.1.1.2 could be considered normative . It was discussed like this in Geneva
 SuggestedRemedy
 Change Normative to informative , and if necessary delete clause 200A.1.1.1.2 and insert in the main body as subclause 146.7.2.4 (link performance)
 Proposed Response Response Status O

Cl 146 SC 146.10 P 121 L 39 # 82
 Xu, Dayin Rockwell Automation
 Comment Type E Comment Status X
 Delete "current implementation on evaluation board takes about 20 bit times maximum) "
 SuggestedRemedy
 Delete "current implementation on evaluation board takes about 20 bit times maximum) "
 Proposed Response Response Status O

Cl 147 SC 147.2 P 133 L 6 # 83
 Xu, Dayin Rockwell Automation
 Comment Type E Comment Status X
 change "plca_en signal" to "plca_en"
 SuggestedRemedy
 change "plca_en signal" to "plca_en"
 Proposed Response Response Status O

Cl 147 SC 147.2.2 P 138 L 10 # 84
 Xu, Dayin Rockwell Automation
 Comment Type T Comment Status X
 In Figure 147-4 "transmitting <= ENCODE(pcs_txdn)" in the DATA state is wrong.
 SuggestedRemedy
 change "transmitting <= ENCODE(pcs_txdn)" to "tx_sym <= ENCODE(pcs_txdn)"
 Proposed Response Response Status O

Cl 147 SC 147.2.2 P 138 L 13 # 85
 Xu, Dayin Rockwell Automation
 Comment Type T Comment Status X
 The condition to keep in DATA state is not clear
 SuggestedRemedy
 Add "ELSE" on the transtion from DATA to DATA itself.
 Proposed Response Response Status O

Management Parameters for 10 Mb/s Operation over Single Balanced Twisted-pair Cabling and Associat

Cl 147 SC 147.2.2 P 138 L 29 # 86
 Xu, Dayin Rockwell Automation
 Comment Type T Comment Status X
 Missed STD on the transition from GOOD_ESD to SILENT
 SuggestedRemedy
 Add "STD" on the transition from GOOD_ESD to SILENT
 Proposed Response Response Status O

Cl 147 SC 147.2.3 P 139 L 12 # 87
 Xu, Dayin Rockwell Automation
 Comment Type E Comment Status X
 SILENCE is also defined in 147.2.2.1, should be included here
 SuggestedRemedy
 Change "For the definition of pcs_reset, SYNC, ..." to "For the definition of pcs_reset, SILENCE, SYNC, ..."
 Proposed Response Response Status O

Cl 147 SC 147.2.3.1 P 139 L 32 # 88
 Xu, Dayin Rockwell Automation
 Comment Type E Comment Status X
 SILENCE has already been defined in 147.2.2.1
 SuggestedRemedy
 Delete "SILENCE" variable definition.
 Proposed Response Response Status O

Cl 147 SC 147.2.3.2 P 139 L 37 # 89
 Xu, Dayin Rockwell Automation
 Comment Type T Comment Status X
 sym_rx is not defined, should be RX
 SuggestedRemedy
 Change "sym_rx" to "RX"
 Proposed Response Response Status O

Cl 147 SC 147.2.3 P 140 L 19 # 90
 Xu, Dayin Rockwell Automation
 Comment Type T Comment Status X
 Rxn-4 is not consistant with "RX" variable definition
 SuggestedRemedy
 Change Rxn-4 to RXn-4; search other Rxn in Figure 147-5 and replace them with RXs
 Proposed Response Response Status O

Cl 147 SC 147.2.3 P 140 L 19 # 91
 Xu, Dayin Rockwell Automation
 Comment Type T Comment Status X
 rx_data<2:0> is wrong, should be rx_data<3:0>
 SuggestedRemedy
 Change rx_data<2:0> to rx_data<3:0>
 Proposed Response Response Status O

Cl 147 SC 147.2.3 P 140 L 27 # 92
 Xu, Dayin Rockwell Automation
 Comment Type T Comment Status X
 rx_data<2:0> is wrong, should be rx_data<3:0>
 SuggestedRemedy
 Change rx_data<2:0> to rx_data<3:0>
 Proposed Response Response Status O

Cl 148 SC 148.4.4.1.1 P 159 L 35 # 93
 Xu, Dayin Rockwell Automation
 Comment Type T Comment Status X
 This sub-clause is only about the BEACON request, not about the BEACON indication.
 SuggestedRemedy
 Change the title from "BEACON request and indication" to "BEACON request"
 Proposed Response Response Status O

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CI 146 SC 146.1 P 79 L 19 # 94
Xu, Dayin Rockwell Automation

Comment Type E Comment Status X
Missed a space between 10BASE-T1L and PHY

SuggestedRemedy

Add a space between 10BASE-T1L and PHY

Proposed Response Response Status O

CI 146 SC 146.1.2.1 P 81 L 24 # 95
Xu, Dayin Rockwell Automation

Comment Type E Comment Status X
wrong format

SuggestedRemedy

remove spaces between "signa" and "Is on ..."

Proposed Response Response Status O

CI 146 SC 146.2 P 82 L 28 # 96
Xu, Dayin Rockwell Automation

Comment Type T Comment Status X
TXD<7:0> should be TXD<3:0>

SuggestedRemedy

Change TXD<7:0> to TXD<3:0>

Proposed Response Response Status O

CI 146 SC 146.2 P 82 L 27 # 97
Xu, Dayin Rockwell Automation

Comment Type T Comment Status X
RXD<7:0> should be RXD<3:0>

SuggestedRemedy

Change RXD<7:0> to RXD<3:0>

Proposed Response Response Status O

CI 146 SC 146.8.4 P 119 L 24 # 98
Xu, Dayin Rockwell Automation

Comment Type T Comment Status X
10BASE-T1L is not for automotive application, so the paragraph " For automotive applications ... is/are removed" should be removed.

SuggestedRemedy

Remove the paragraph of " For automotive applications ... is/are removed".

Proposed Response Response Status O

CI 146 SC 146.9.2 P 120 L 25 # 99
Xu, Dayin Rockwell Automation

Comment Type T Comment Status X
10BASE-T1L is not for automotive application, so the sentence " in automotive applications, all 10BASE-T1L ... , and ISO 15764" should be removed.

SuggestedRemedy

Remove the sentence " in automotive applications, all 10BASE-T1L ... , and ISO 15764".

Proposed Response Response Status O

CI 146 SC 146.9.2.1 P 120 L 38 # 100
Xu, Dayin Rockwell Automation

Comment Type T Comment Status X
10BASE-T1L is not for automotive application, so the paragraph " In automotive applications, all ... e) Chemical loads: ISO 167540-5 and ISO 20653" should be removed.

SuggestedRemedy

Remove the paragraph " In automotive applications, all ... e) Chemical loads: ISO 167540-5 and ISO 20653" (line 38 - line 45).

Proposed Response Response Status O

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CI 146 SC 146.9.2.2 P 121 L 18 # 101
Xu, Dayin Rockwell Automation

Comment Type T Comment Status X

10BASE-T1L is not for automotive application, so the paragraph " In automotive applications, ... ISO 7637-2/3" from line 18 to line 25 should be removed.

SuggestedRemedy

Remove the paragraph " In automotive applications, ... ISO 7637-2/3" from line 18 to line 25

Proposed Response Response Status O

CI 148 SC 148.4.4.1.2 P 159 L 50 # 102
Xu, Dayin Rockwell Automation

Comment Type T Comment Status X

This sub-clause is only about the COMMIT request, not about the COMMIT indication.

SuggestedRemedy

Change the title from COMMIT request and indication" to COMMIT request"

Proposed Response Response Status O

CI 148 SC 148.4.4.2.1 P 160 L 25 # 103
Xu, Dayin Rockwell Automation

Comment Type E Comment Status X

text changes proposed

SuggestedRemedy

Change "When the PHY receives a BEACON indication from the master, it shall convey this information to the RS by asserting MII signals ..." to "When the PHY receives a BEACON request from the master PHY, it shall indicate this information to the RS by asserting MII signals ..."

Proposed Response Response Status O

CI 148 SC 148.4.4.2.2 P 160 L 34 # 104
Xu, Dayin Rockwell Automation

Comment Type E Comment Status X

text changes proposed

SuggestedRemedy

Change "When the PHY receives a COMMIT indication from another PHY, it shall convey this information to the RS by asserting MII signals ..." to "When the PHY receives a COMMIT request from another PHY, it shall indicate this information to the RS by asserting MII signals ..."

Proposed Response Response Status O

CI 148 SC 148.4.5.1 P 161 L 50 # 105
Xu, Dayin Rockwell Automation

Comment Type E Comment Status X

text changes proposed

SuggestedRemedy

Change "assumes the indication of the PHY ..." to "assumes the early receive indication of the PHY ..."

Proposed Response Response Status O

CI 147 SC 147.2.2.1 P 133 L 52 # 106
Huszák, Gergely Kone

Comment Type E Comment Status X

The term "SSD symbol group" is incorrect (SSD is a standalone 5B symbol, not a group of those). Moreover the wording does not harmonize with the rest of the clause

SuggestedRemedy

Change "one SSD symbol group" to "an SSD"

Proposed Response Response Status O

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Cl 147 SC 147.2.3 P 139 L 2 # 107
Huszák, Gergely Kone
Comment Type E Comment Status X
The term "the SSD symbol" does not harmonize with the rest of the clause
SuggestedRemedy
Change "the SSD symbol" to "an SSD"
Proposed Response Response Status O

Cl 147 SC 147.2.5 P 142 L 18 # 108
Huszák, Gergely Kone
Comment Type E Comment Status X
The term "SSD symbol" does not harmonize with the rest of the clause
SuggestedRemedy
Change "SSD symbol" to "SSD"
Proposed Response Response Status O

Cl 147 SC 147.2.1 P 133 L 1 # 109
Beruto, Piergiorgio Canova Tech
Comment Type E Comment Status X
Comment #267 on draft 1.0 was approved but not fully implemented in draft 1.1
SuggestedRemedy
In figure 147-2 change "plca_en signal" arrow (from MANAGEMENT to PCS TRANSMIT block) to "plca_en"
Proposed Response Response Status O

Cl 147 SC 147.2.1 P 133 L 1 # 110
Beruto, Piergiorgio Canova Tech
Comment Type E Comment Status X
In figure 147-2 the MII signals should be named as in clause 22
SuggestedRemedy
replace "TXCLK" with "TX_CLK", replace "RXCLK" with "RX_CLK", replace "RXDV" with "RX_DV", replace "RXER" with "RX_ER"
Proposed Response Response Status O

Cl 147 SC 147.2.2.3 P 138 L 20 # 111
Beruto, Piergiorgio Canova Tech
Comment Type E Comment Status X
In figure 147-4 some errors occurred when porting the picture to Frame from draft 1.0
SuggestedRemedy
In figure 147-4 substitute "STD err = TRUE" with "STD * err = TRUE" in all transitions from ESD state; add "STD" in transition from GOOD_ESD to "B". See attached PDF.
Proposed Response Response Status O

Cl 147 SC 147.2.2.3 P 138 L 11 # 112
Beruto, Piergiorgio Canova Tech
Comment Type E Comment Status X
In figure 147-4 in DATA state, pcs_txen is a typo. It should be pcs_txer.
SuggestedRemedy
In figure 147-4 replace "err <= err + pcs_txen" with "err <= err + pcs_txer"
Proposed Response Response Status O

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CI 147 SC 147.2.3.3 P 140 L 1 # 113
Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status X

Multiple errors occurred when porting figure 147-5 to Frame from draft 1.0

SuggestedRemedy

In state WAIT_SYNC add space between pcs_rxd and <= symbol. See attached PDF.
Replace text in state WAIT_SSD with text in draft 1.0. See attached PDF.
Replace text in state PRE1 with text in draft 1.0. See attached PDF.
In transition from BAD_SSD state to WAIT_SYNC state replace the "RXn != SILENCE" with "RXn = SILENCE".
From all state when entering WAIT_SYNC state replace "<=" assignment symbol with "=" comparison symbol.

Proposed Response Response Status O

CI 147 SC 147.2.3.3 P 141 L 1 # 114
Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status X

Multiple errors occurred when porting figure 147-6 to Frame from draft 1.0

SuggestedRemedy

Add text in state DATA copying from draft 1.0. See attached PDF.

Proposed Response Response Status O

CI 147 SC 147.3.2 P 145 L 18 # 115
Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status X

Figure 147-8 porting from draft 1.0 is incomplete

SuggestedRemedy

Copy figure from draft 1.0. See attached PDF

Proposed Response Response Status O

CI 147 SC 147.5.1.2 P 149 L 17 # 116
Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status X

Figure 147-11 porting from draft 1.0 is incomplete

SuggestedRemedy

Copy figure from draft 1.0. See attached PDF

Proposed Response Response Status O

CI 148 SC 148.4.2 P 157 L 8 # 117
Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status X

In figure 148-2 the MII signals should be named as in clause 22

SuggestedRemedy

replace "TXCLK" with "TX_CLK", replace "TXEN" with "TX_EN", replace "TXER" with "TX_ER"

Proposed Response Response Status O

CI 148 SC 148.4.5.1 P 164 L 12 # 118
Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status X

In figure 148-4 variable "framePending" should be renamed to "packetPending"

SuggestedRemedy

In figure 148-4 replace all occurrences of "framePending" with "packetPending"

Proposed Response Response Status O

CI 148 SC 148.4.5.1 P 164 L 46 # 119
Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status X

In transition from "NEXT_TS" state to "WAIT_TO" state there should be an "ELSE"

SuggestedRemedy

In figure 148-4 add "ELSE" to transition between NEXT_TS state to WAIT_TO state

Proposed Response Response Status O

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Cl 148 **SC 148.4.5.1** **P 164** **L 46** # **120**
 Beruto, Piergiorgio Canova Tech

Comment Type E **Comment Status X**
 NEXT_TS state should be named NEXT_TO (which stands for NEXT Transmit Opportunity)

SuggestedRemedy
 In figure 148-4 replace NEXT_TS with NEXT_TO

Proposed Response **Response Status O**

Cl 148 **SC 148.4.6.1** **P 168** **L 1** # **121**
 Beruto, Piergiorgio Canova Tech

Comment Type E **Comment Status X**
 Figure 148-5 should be updated integrating changes in the yellow boxes

SuggestedRemedy
 Replace figure 148-5 as in attached PDF

Proposed Response **Response Status O**

Cl 148 **SC 148.4.6.1** **P 168** **L 1** # **122**
 Beruto, Piergiorgio Canova Tech

Comment Type E **Comment Status X**
 Text formatting in figure 148-5 is not clear.

SuggestedRemedy
 in figure 148-5 substitute "SIGNAL_STATUS <= SIGNAL_ERROR if COL = TRUE NO_SIGNAL_ERROR else" with "if COL = TRUE SIGNAL_STATUS <= SIGNAL_ERROR else SIGNAL_STATUS <= NO_SIGNAL_ERROR"

substitute "CARRIER_STATUS <= CARRIER_ON if plca_crs = TRUE CARRIER_OFF else" with "if plca_CRS = TRUE CARRIER_STATUS <= CARRIER_ON else CARRIER_STATUS <= CARRIER_OFF"

Proposed Response **Response Status O**

Cl 148 **SC 148.4.6.1** **P 169** **L 1** # **123**
 Beruto, Piergiorgio Canova Tech

Comment Type E **Comment Status X**
 Text formatting in figure 148-6 is not clear.

SuggestedRemedy
 in figure 148-6, in both TRANSMIT and FLUSH states substitute "SIGNAL_STATUS <= SIGNAL_ERROR if COL = TRUE NO_SIGNAL_ERROR else" with "if COL = TRUE SIGNAL_STATUS <= SIGNAL_ERROR else SIGNAL_STATUS <= NO_SIGNAL_ERROR"

Proposed Response **Response Status O**

Cl 148 **SC 148.4.6.1** **P 169** **L 1** # **124**
 Beruto, Piergiorgio Canova Tech

Comment Type E **Comment Status X**
 In figure 148-6 TXEN should be TX_EN

SuggestedRemedy
 In figure 148-6 substitute "TXEN" with "TX_EN"

Proposed Response **Response Status O**

Cl 148 **SC 148.4.5.1** **P 163** **L 13** # **125**
 Beruto, Piergiorgio Canova Tech

Comment Type T **Comment Status X**
 In figure 148-3, the transition from RECOVER state to RECOVER state should be done whenever some activity is sensed on the media ("plca_eri"), not only when a good receiving is ongoing ("plca_crs"). This to avoid collision when BEACON is sent

SuggestedRemedy
 In figure 148-3 substitute "plca_crs = TRUE" with "plca_eri = TRUE" in transition from RECOVER state to RECOVER state

Proposed Response **Response Status O**

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CI 147 SC 147.2.1 P 133 L 1 # 126
 Beruto, Piergiorgio Canova Tech
 Comment Type E Comment Status X
 Figure 147-2 porting from draft 1.0 is incomplete
 SuggestedRemedy
 add label "transmitting" on arrow between PCS TRANSMIT block to PCS RECEIVE block
 Proposed Response Response Status O

CI 147 SC 147.3.2 P 145 L 3 # 127
 Beruto, Piergiorgio Canova Tech
 Comment Type E Comment Status X
 "PDM" should be "PMD" (2 times)
 SuggestedRemedy
 Substitute "When in multidrop mode, the PDM shall be put into high-impedance/Z state" with "When in multidrop mode, the PMD shall be put into high-impedance/Z state"
 Substitute "While in point-to-point mode, the PDM shall drive" with "While in point-to-point mode, the PMD shall drive"
 Proposed Response Response Status O

CI 147 SC 147.2.1 P 133 L 4 # 128
 Beruto, Piergiorgio Canova Tech
 Comment Type T Comment Status X
 Collision detection shall be disabled when operating in full-duplex mode
 SuggestedRemedy
 In figure 147-2 add an arrow named "duplex_mode" from MANAGEMENT to COLLISION DETECTION and PCS RECEIVE blocks
 Proposed Response Response Status O

CI 147 SC 147.2.2.3 P 135 L 34 # 129
 Beruto, Piergiorgio Canova Tech
 Comment Type E Comment Status X
 Suggest to add a page break before table 147-1 to avoid the split and improve readability
 SuggestedRemedy
 Add page break before table 147-1
 Proposed Response Response Status O

CI 147 SC 147.2.3.1 P 139 L 33 # 130
 Beruto, Piergiorgio Canova Tech
 Comment Type T Comment Status X
 In order to support full-duplex mode, the PCS RX block should be configured accordingly
 SuggestedRemedy
 Appen the following variable description to the "Variables" subclause:
 "duplex_mode
 indicates whether the PHY is configured for full-duplex operation (DUPLEX_FULL) or half-duplex operation (DUPLEX_HALF). This variable is set after bit 8 in MDIO register 0 defined in table 22-7"
 Proposed Response Response Status O

CI 147 SC 147.2.3.1 P 140 L 2 # 131
 Beruto, Piergiorgio Canova Tech
 Comment Type T Comment Status X
 In order to support full-duplex mode, the PCS RX block should behave accordingly
 SuggestedRemedy
 In figure 147-5 replace "transmitting <= TRUE" with "(transmitting = TRUE * duplex_mode = DUPLEX_HALF)"
 Proposed Response Response Status O

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Cl 148 SC 148.4.5.1 P 162 L 22 # 132
 Beruto, Piergiorgio Canova Tech
 Comment Type T Comment Status X
 Editor's note about figures 148-3 and 148-4 can now be removed
 SuggestedRemedy
 Remove first Editor's Note
 Proposed Response Response Status O

Cl 148 SC 148.4.5.2 P 165 L 37 # 133
 Beruto, Piergiorgio Canova Tech
 Comment Type T Comment Status X
 MAX_ID can be left unconfigured on slave devices, myID shall not depend on it
 SuggestedRemedy
 Change "Values: integer value from 0 (MASTER) to MAX_ID" to "Value: integer value from 0 (MASTER) to 255".
 Proposed Response Response Status O

Cl 148 SC 148.4.5.2 P 165 L 37 # 134
 Beruto, Piergiorgio Canova Tech
 Comment Type E Comment Status X
 Missing carriage return before "Values:"
 SuggestedRemedy
 Add carriage return at line 37 before "Value:"
 Proposed Response Response Status O

Cl 146 SC 146.8 P 118 L 38 # 135
 Fritsche, Matthias HARTING Technology
 Comment Type T Comment Status X
 SPE is a new physical layer and to define a plug and work system a new MDI is needed. RJ45 is reserved and used for the 2-pair and 4-pair Ethernet standards.
 SuggestedRemedy
 Alternatively for applications with lower environmental requirements a two pin shielded IP20 connector according to IEC 61076-3-125 or a two pin unshielded connector according to IEC 63171-1 shall be used in conformance to the requirements of the link segment defined in 146.7.
 Proposed Response Response Status O

Cl 146 SC 146.9.1 P 120 L 15 # 136
 Fritsche, Matthias HARTING Technology
 Comment Type E Comment Status X
 IEC 60950-1 is only valid up to end of 2019 and is replaced with IEC 62368-1. We should use the new safety standard
 SuggestedRemedy
 Replace „IEC 60950-1“ with „IEC 62368-1 (former IEC 60950-1)“
 Proposed Response Response Status O

Cl 146 SC 146.11.4.5 P 130 L 6 # 137
 Fritsche, Matthias HARTING Technology
 Comment Type E Comment Status X
 IEC 60950-1 is only valid up to end of 2019 and is replaced with IEC 62368-1. We should use the new safety standard
 SuggestedRemedy
 Replace „IEC 60950-1“ with „IEC 62368-1 (former IEC 60950-1)“
 Proposed Response Response Status O

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CI 146 SC 146.8 P 118 L 34 # 138
Fritsche, Matthias HARTING Technology

Comment Type T Comment Status X

If we just specify a four pin M8/M12 or 7/8" connector, it is possible to use a bigger amount of different M8/M12 coding's from example A, B, D, and other coding's. All oth this codings are defined for special non SPE use cases only. To define a plug and work system for the market it must be defined more precisely.

SuggestedRemedy

For industrial applications also a two or four pin shielded M8/M12 connector according to IEC 61076-3-125 shall be used in conformance to the requirements of the link segment defined in 146.7.

Proposed Response Response Status O

CI 01 SC 1.5 P 24 L 32 # 139
Pandey, Sujan NXP

Comment Type ER Comment Status X

PLCS

SuggestedRemedy

PLCA

Proposed Response Response Status O

CI 147 SC 147.3.3 P 145 L 39 # 140
Pandey, Sujan NXP

Comment Type TR Comment Status X

The symbol sequence J/J/J/K which replaces the first 16 bit of packet preamble

SuggestedRemedy

The symbol sequence J/J/J/K which replaces the first 20 bit of packet preamble

Proposed Response Response Status O

CI 148 SC 148.4.2 P 157 L 33 # 141
Pandey, Sujan NXP

Comment Type TR Comment Status X

Figure 148-2 is misleading. Figure tells that gRS will not be a part of PHY and PLCA state machines are defined outside of the PHY. Is this according to the objective of 802.3cg?

SuggestedRemedy

Figure should be drawn such that PLCA RS layer should be inside the PHY

Proposed Response Response Status O

CI 148 SC 148.4.2 P 157 L 12 # 142
Pandey, Sujan NXP

Comment Type TR Comment Status X

What is the size of PLCA delay unit?

SuggestedRemedy

Specify the size

Proposed Response Response Status O

CI 148 SC 0 P L # 143
Pandey, Sujan NXP

Comment Type T Comment Status X

muyID should be renamed

SuggestedRemedy

local_ID

Proposed Response Response Status O

CI 148 SC 148.4.2 P 157 L 12 # 144
Pandey, Sujan NXP

Comment Type T Comment Status X

delay line is not a good name

SuggestedRemedy

FIFO

Proposed Response Response Status O

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CI 148 SC 148.4.6.1 P 168 L 1 # 145
 Pandey, Sujan NXP
 Comment Type T Comment Status X
 Figure 148-5: The variable a and b should be more descriptive
 SuggestedRemedy
 Proposed Response Response Status O

CI 22 SC 22.2.2.4 P L # 146
 Pandey, Sujan NXP
 Comment Type T Comment Status X
 in Table 22-1 & 22-2. Why do we need these new codes over this interface if the MAC in an SoC or Bridge is not to be modified per this project? See the Objectives.
 SuggestedRemedy
 Please clarify with NOTES in the draft.
 Proposed Response Response Status O

CI 147 SC 147.4.1 P 146 L 26 # 147
 Zerna, Conrad Fraunhofer
 Comment Type T Comment Status X
 Replace "generated by PRBS7 with the generating polynomial of x^7+x^6+1 ." with
 SuggestedRemedy
 "generated by PRBS7 with the generating polynomial of x^7+x^6+1 encoded using Differential Manchester Encoding (DME) as in 147.3.2."
 Proposed Response Response Status O

CI 147 SC 147.4.1.3.1 P 147 L 28 # 148
 Zerna, Conrad Fraunhofer
 Comment Type T Comment Status X
 Comment Group "TX amplitude, PSD and Emissions"
 Replace
 "
$$\text{UppePSD}(f) = \begin{cases} -61 & 0.3\text{MHz} \leq f < 15\text{MHz} \\ -41-1.4*f & 15\text{MHz} \leq f < 25\text{MHz} \\ -75 & 25\text{MHz} \leq f \end{cases} \text{ [dBm/Hz]}$$

 " with

SuggestedRemedy
 "
$$\text{UppePSD}(f) = \begin{cases} -72 & 0.3\text{MHz} \leq f < 15\text{MHz} \\ -52-1.4*f & 15\text{MHz} \leq f < 25\text{MHz} \\ -86 & 25\text{MHz} \leq f \end{cases} \text{ [dBm/Hz]}$$

 " --> also presentation
 Proposed Response Response Status O

CI 147 SC 147.4.1.3.2 P 147 L 38 # 149
 Zerna, Conrad Fraunhofer
 Comment Type T Comment Status X
 Comment Group "TX amplitude, PSD and Emissions"
 Replace
 "
$$\text{LowerPSD}(f) = \begin{cases} -95+2*f & 5\text{MHz} \leq f < 10\text{MHz} \\ -55-2*f & 10\text{MHz} \leq f \leq 15\text{MHz} \end{cases} \text{ [dBm/Hz]}$$

 " with

SuggestedRemedy
 "
$$\text{LowerPSD}(f) = \begin{cases} -105+2*f & 5\text{MHz} \leq f < 10\text{MHz} \\ -65-2*f & 10\text{MHz} \leq f \leq 15\text{MHz} \end{cases} \text{ [dBm/Hz]}$$

 " --> also presentation
 Proposed Response Response Status O

| Management Parameters for 10 Mb/s Operation over Single Balanced Twisted-pair Cabling and Associat

CI 147 SC 147.5.1 P 148 L 42 # 150
Zerna, Conrad Fraunhofer

Comment Type T Comment Status X

Comment Group "PMD and MDI"
Replace
"100Ohm+-TBD"
with

SuggestedRemedy

"100Ohm+-15%"

Proposed Response Response Status O

CI 147 SC 147.5.1.1 P 148 L 46 # 151
Zerna, Conrad Fraunhofer

Comment Type T Comment Status X

Comment Group "PMD and MDI"
Replace
"fixed 100 Ohm ±10 % termination"
with

SuggestedRemedy

"nominal 100Ohm termination, which satisfies
RL < { -20dB 0.3MHz <= f <= 2MHz} [dB]
-20dB+10*(f-2)/18 2MHz <= f
when measured with 100Ohm+-1% impedance,"

Proposed Response Response Status O

CI 147 SC 147.5.1.2 P 149 L 3 # 152
Zerna, Conrad Fraunhofer

Comment Type T Comment Status X

Comment Group "Multi-Drop terminations"
Delete
"shall provide fixed 50 Ohm ±10 % termination and"

SuggestedRemedy

Proposed Response Response Status O

CI 147 SC 147.5.1.2 P 149 L 12 # 153
Zerna, Conrad Fraunhofer

Comment Type T Comment Status X

Comment Group "Multi-Drop terminations"
Replace
"by two 100 Ohm (nominal) resistances at the edges"
with

SuggestedRemedy

"by two 100 Ohm (nominal) impedances satisfying
RL < { -23dB 0.3MHz <= f <= 2MHz} [dB]
-23dB+10*(f-2)/18 2MHz <= f
when measured with 100Ohm+-1% impedance, at the edges "

Proposed Response Response Status O

CI 147 SC 147.5.1.2 P 149 L 16 # 154
Zerna, Conrad Fraunhofer

Comment Type T Comment Status X

Comment Group "Multi-Drop terminations"
Fix figure to reflect textual changes of comment group

SuggestedRemedy

see jpg file "draft1p1_correction_fig147-11_multidropTerm.jpg"

Proposed Response Response Status O

Management Parameters for 10 Mb/s Operation over Single Balanced Twisted-pair Cabling and Associat

Cl 147 SC 147.6.3 P 150 L 27 # 155
Zerna, Conrad Fraunhofer

Comment Type T Comment Status X

Comment Group "TX amplitude, PSD and Emissions"

Replace

"

ModeConversionLoss(f) = { 43 0.3MHz <= f < 20MHz } [dBm/Hz]
43-20*log10(f/20) 20MHz <= f <= 200MHz

"

with

SuggestedRemedy

"

ModeConversionLoss(f) = { 46 0.3MHz <= f < 20MHz } [dBm/Hz]
46-20*log10(f/20) 20MHz <= f <= 200MHz

"

--> also presentation

Proposed Response Response Status O

Cl 146 SC 146.7.1.2 P 114 L 38 # 156
DiMinico, Christopher MC Communications

Comment Type T Comment Status X

Comment # 238 D1.0 to correct Figure 146-22 was not implemented by editor.

SuggestedRemedy

New figure needs to be generated using Equation (146-10) values.

Proposed Response Response Status O

Cl 146 SC 146.7.1.3 P 115 L 36 # 157
DiMinico, Christopher MC Communications

Comment Type T Comment Status X

Remove TBD: 146.7.1.3 Maximum link delay (TBD)

SuggestedRemedy

Remove TBD: 146.7.1.3 Maximum link delay (TBD)

Proposed Response Response Status O

Cl 148 SC 148.1 P 155 L 11 # 158
Zimmerman, George CME Consulting et al

Comment Type T Comment Status X

"Currently, the 10BASE-T1S PHY in Clause 147 specifies support for PLCA Reconciliation sublayer." I think what this means is better stated as "The PLCA sublayer is specified for operation with the PHY defined in Clause 147 (10BASE-T1S)."

SuggestedRemedy

Replace "Currently, the 10BASE-T1S PHY in Clause 147 specifies support for PLCA Reconciliation sublayer." with "The PLCA sublayer is specified for operation with the PHY defined in Clause 147 (10BASE-T1S)."

Proposed Response Response Status O

Cl 148 SC 148.2 P 155 L 19 # 159
Zimmerman, George CME Consulting et al

Comment Type E Comment Status X

The Overview section should provide a description of the function that is defined, not discuss the goal of the clause itself. Descriptive text is needed.

SuggestedRemedy

Delete existing 148.2 text. Replace with "Editor's Note (to be removed prior to Working Group ballot): High level description of the operation and specification of PLCA is needed here (description only, no requirements)"

Proposed Response Response Status O

Cl 148 SC 148.4.2 P 157 L 1 # 160
Zimmerman, George CME Consulting et al

Comment Type E Comment Status X

"(plca_en = OFF in register TBD)" - the important thing is the variable, the implementaton in a register is optional and, if implemented, will be documented elsewhere. This same "in register TBD" occurs in several places (148.4.2, 148.4.3.1, 148.4.3.3, 148.4.3.4, 148.4.5.1)

SuggestedRemedy

delete "in register TBD" in 148.4.2, 148.4.3.1, 148.4.3.3, 148.4.3.4, 148.4.5.1.

Proposed Response Response Status O

Management Parameters for 10 Mb/s Operation over Single Balanced Twisted-pair Cabling and Associat

CI 148 SC 148.4.2 P 157 L # 161
Zimmerman, George CME Consulting et al

Comment Type T Comment Status X

"The following provides an overview of RS PLCA operation. The actual specification of RS PLCA operation can be found in the respective RS clauses.
When TSSI support is also specified in the actual RS, the SFD detection of transmitted frames shall be detected after the PLCA variable delay line, as shown in Figure 148-2. This ensures the network latency measurement is not affected by the synchronization latency added by PLCA. No special attention is required for SFD detection of received frames." - several problems. first, what follows is not an overview of the RS PLCA operation. that should be in the overview section and is missing. Second, the statement about TSSI is a stated as a requirement which should be called out separately - or should it be a recommendation? unclear.

SuggestedRemedy

Delete "The following provides... Respective RS clauses." Add new subclause "148.4.2.1 Operation with TSSI" and put sentences from "When TSSI support... detection of received frames" in it.

Proposed Response Response Status O

CI 148 SC 148.4.1 P 155 L 38 # 162
Zimmerman, George CME Consulting et al

Comment Type T Comment Status X

"specified elsewhere in this standard" - please say what clauses you are extending

SuggestedRemedy

Change "specified elsewhere in this standard" with "specified in Clauses" (whatever those clauses may be). If there are specific clauses clause 148 may or may not be used with, list that information too.

Proposed Response Response Status O

CI 148 SC 148.4.1 P 155 L 39 # 163
Zimmerman, George CME Consulting et al

Comment Type T Comment Status X

"this subclause" - you mean Clause 148, not just 148.4.1, no?

SuggestedRemedy

Replace "this subclause" with "Clause 148".

Proposed Response Response Status O

CI 148 SC 148.4.3.1.2 P 158 L 11 # 164
Zimmerman, George CME Consulting et al

Comment Type E Comment Status X

"The values ONE and ZERO are conveyed to the PLCA variable plca_txd<3>,..." the values are conveyed BY the PLCA variables, not to the variables...

SuggestedRemedy

change "to the PLCA variable " to "by the PLCA variables"

Proposed Response Response Status O

CI 148 SC 148 P 164 L 47 # 165
Zimmerman, George CME Consulting et al

Comment Type T Comment Status X

Figure 148-4, arc from NEXT_TS to WAIT_TO has no exit condition

SuggestedRemedy

Proposed Response Response Status O

CI 148 SC 148.4.4.2.1 P 160 L 25 # 166
Zimmerman, George CME Consulting et al

Comment Type T Comment Status X

"master PHY" - the terms MASTER and SLAVE are used repeatedly and even in this amendment to refer to loop timing. A different relationship is meant here for the optional PLCA RS. Using master and slave is not advised. In many places, like this one, the term is not needed. tag: PLCA_MASTER

SuggestedRemedy

Delete "from the master" at P 160 L25. In all other cases, term master can be omitted - see other comments tagged PLCA_MASTER

Proposed Response Response Status O

| Management Parameters for 10 Mb/s Operation over Single Balanced Twisted-pair Cabling and Associat

CI 148 SC 148.4.5.1 P 161 L 26 # 167
 Zimmerman, George CME Consulting et al
 Comment Type T Comment Status X
 eliminate "master" "slave" - tag: PLCA_MASTER
 SuggestedRemedy
 Change "When PLCA functions are enabled, the master PHY (the one having myID variable set to 0) immediately" to "When PLCA functions are enabled, the PHY with myID set to 0 immediately"
 Proposed Response Response Status O

CI 148 SC 148.4.5.1 P 161 L 28 # 168
 Zimmerman, George CME Consulting et al
 Comment Type T Comment Status X
 "Slave PHYs wait in RESYNC state until a BEACON is sent by the master PHY." - actually they wait until a BEACON is received. Tag: PLCA_MASTER
 SuggestedRemedy
 change "is sent by the master PHY" to "is received"
 Proposed Response Response Status O

CI 148 SC 148.4.5.1 P 161 L 30 # 169
 Zimmerman, George CME Consulting et al
 Comment Type T Comment Status X
 "Both the slave PHYs and the master PHY are required to detect the end of the BEACON condition before resetting the transmit opportunity timer" - actually, All PHYs are required... Use of "are required" is discouraged too. Tag: PLCA_MASTER
 SuggestedRemedy
 Change "Both the slave PHYs and the master PHY are required to detect the end..." to "All PHYs are detect the end..."
 Proposed Response Response Status O

CI 148 SC 148.4.5.1 P 161 L 35 # 170
 Zimmerman, George CME Consulting et al
 Comment Type T Comment Status X
 "while TPD is the worst-case propagation delay time between the master and all slave PHYs." actually, TPD is the worst-case propagation delay time from end-to-end of the mixing segment. Tag: PLCA_MASTER
 SuggestedRemedy
 Change "between the master and all slave PHYs" to "from end-to-end on the mixing segment."
 Proposed Response Response Status O

CI 148 SC 148.4.5.1 P 162 L 6 # 171
 Zimmerman, George CME Consulting et al
 Comment Type T Comment Status X
 "The recovery procedure forces a slave PHY to wait for the next BEACON and a master PHY to wait for all slave PHYs to be silent for at least RECV_BEACON_TIMER before sending a new BEACON." eliminate master/slave Tag: PLCA_MASTER
 SuggestedRemedy
 Change "The recovery procedure forces a slave PHY to wait for the next BEACON and a master PHY to wait for all slave PHYs to be silent for at least RECV_BEACON_TIMER before sending a new BEACON." to "The recovery procedure forces the PHY with myID=0 to wait for all other PHYs to be silent for at least RECV_BEACON_TIMER before sending a new BEACON, and all other PHYs to wait for the next BEACON to be received."
 Proposed Response Response Status O

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Cl 148 SC 148.4.5.2 P 165 L 36 # 172
Zimmerman, George CME Consulting et al

Comment Type T Comment Status X

"The special value '0' is assigned to the master node, indicating the PHY shall generate BEACON signals. Values: integer value from 0 (master) to MAX_ID." - eliminate master/slave, and eliminate duplicate "shall" which is really contained in the state diagram. Tag: PLCA_MASTER

SuggestedRemedy

Change "The special value '0' is assigned to the master node, indicating the PHY shall generate BEACON signals. Values: integer value from 0 (master) to MAX_ID." to "The special value '0' is assigned to the PHY which generates BEACON signals. Values: integer value from 0 to MAX_ID."

Proposed Response Response Status O

Cl 148 SC 148.4.5.2 P 165 L 41 # 173
Zimmerman, George CME Consulting et al

Comment Type T Comment Status X

"This parameter is only meaningful for the master PHY (myID = 0). For slave PHYs, MAX_ID is ignored." - eliminate master/slave Tag: PLCA_MASTER

SuggestedRemedy

Change "This parameter is only meaningful for the master PHY (myID = 0). For slave PHYs, MAX_ID is ignored." to "This parameter is only meaningful for the PHY with myID = 0, otherwise it is ignored."

Proposed Response Response Status O

Cl 148 SC 148.4.5.4 P 166 L 11 # 174
Zimmerman, George CME Consulting et al

Comment Type T Comment Status X

"Represents the time for which the master PHY signals a BEACON condition." - isn't this timer the duration of the BEACON? - also eliminate master/slave Tag: PLCA_MASTER

SuggestedRemedy

Change "Represents the time for which the master PHY signals a BEACON condition." to "Times the duration of the BEACON signal."

Proposed Response Response Status O

Cl 148 SC 148.4.5.4 P 166 L 30 # 175
Zimmerman, George CME Consulting et al

Comment Type T Comment Status X

"During a recovery operation the master PHY needs to wait for all slave PHYs to be silent for at least RECV_BEACON_TIMER before sending a new BEACON request." - a BEACON is not a request, it is a BEACON, no? - also eliminate master/slave Tag: PLCA_MASTER

SuggestedRemedy

Change "During a recovery operation the master PHY needs to wait for all slave PHYs to be silent for at least RECV_BEACON_TIMER before sending a new BEACON request." to "During recovery, RECV_BEACON_TIMER times the period that all PHYs need to be silent before a new BEACON may be sent."

Proposed Response Response Status O

Cl 148 SC 148.4.6.1 P 168 L 9 # 176
Zimmerman, George CME Consulting et al

Comment Type E Comment Status X

Nomenclature is backwards in conditionals in state diagrams of clause 148, for example "SIGNAL_STATUS <= SIGNAL_ERROR IF COL = TRUE" should be "If COL = TRUE SIGNAL_STATUS <= SIGNAL_ERROR Else SIGNAL_STATUS <= NO_SIGNAL_ERROR"

SuggestedRemedy

Change format to if - then - else, and put complete assignments as "then" or "else" (see example in comment.) Do this for "NORMAL", "RECEIVE" and "TRANSMIT" states in Figures 148-5 and 148-6

Proposed Response Response Status O

Cl 45 SC 45.2.1.174e.5 P 39 L 4 # 177
iyer, venkat microchip

Comment Type T Comment Status X

how is receive polarity defined for multi-drop and DME

SuggestedRemedy

not defined

Proposed Response Response Status O

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Cl 147 SC 147.1.2 P 131 L 40 # 178
 iyer, venkat microchip

Comment Type T Comment Status X
 use of 'can' doesn't conform to IEEE style manual creating ambiguity and possible conflict with objectives

SuggestedRemedy
 The 10BASE-T1S PHY shall operate using half-duplex point to point.... Optionally, the PHY can operate using half-duplex multi-drop..... Optionally, the PHY can operate using full-duplex....

Proposed Response Response Status O

Cl 147 SC 147.2.2.1 P 133 L 53 # 179
 iyer, venkat microchip

Comment Type T Comment Status X
 in clause 147 'symbol' seems to be the more common understanding than symbol group (sorry for back tracking change I had suggested)

SuggestedRemedy
 replace symbol group with symbol

Proposed Response Response Status O

Cl 147 SC 147.3.3 P 145 L 32 # 180
 iyer, venkat microchip

Comment Type T Comment Status X

SuggestedRemedy
 replace symbol groups with symbols

Proposed Response Response Status O

Cl 147 SC 147.3.2 P 145 L 3 # 181
 iyer, venkat microchip

Comment Type E Comment Status X
 typo

SuggestedRemedy
 PDM shouldbe PMD

Proposed Response Response Status O

Cl 147 SC 147.3.2 P 145 L 4 # 182
 iyer, venkat microchip

Comment Type E Comment Status X
 typo

SuggestedRemedy
 PDM shouldbe PMD

Proposed Response Response Status O

Cl 147 SC 147.4.1.1 P 146 L 45 # 183
 iyer, venkat microchip

Comment Type T Comment Status X
 if auto negotiation is optional, how can it be the default setting?

SuggestedRemedy
 delete "default setting is to use Auto Negotiation"

Proposed Response Response Status O

Cl 148 SC 148.1 P 155 L 7 # 184
 iyer, venkat microchip

Comment Type T Comment Status X
 maximum latency is bad

SuggestedRemedy
 replace maximum with reduced

Proposed Response Response Status O

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Cl **148** *SC* **148.4.5.2** *P* **165** *L* **35** # 185
 iyer, venkat microchip

Comment Type **T** *Comment Status* **X**
 "may" implies actions are part of specification. But PLCA variables negotiation is not detailed in spec

SuggestedRemedy
 delete " may also be set..98"

Proposed Response *Response Status* **O**

Cl **148** *SC* **148.4.5.2** *P* **165** *L* **43** # 186
 iyer, venkat microchip

Comment Type **T** *Comment Status* **X**
 "may" indicates actions are part of specification. But PLCA variables negotiation is not detailed in spec

SuggestedRemedy
 delete "MAX_ID may also be set..98"

Proposed Response *Response Status* **O**

Cl **146** *SC* **146.A.1** *P* **176** *L* **13** # 187
 iyer, venkat microchip

Comment Type **T** *Comment Status* **X**
 figures in annex show PHY with separate TX and RX pins

SuggestedRemedy

Proposed Response *Response Status* **O**