

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

CI 00 SC P3 L1 # 57  
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

. 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 W

PROPOSED ACCEPT. Replace "specifies additions to and" with "specifies additions and"

CI 00 SC P3 L4 # 58  
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

copper (in Keywords section most of the words start with a capital letter, should be uniform)

## SuggestedRemedy

Copper

Proposed Response Response Status W

PROPOSED REJECT. Chief Editor confirmed with Pete Anslow that previous practice has not been to capitalize all of the entries in the keywords (see "copper" in the 802.3bw Keyword list, for example).

CI 00 SC P3 L4 # 1  
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

MediumDependent Interface

## SuggestedRemedy

Medium Dependent Interface

Proposed Response Response Status W

PROPOSED ACCEPT. Replace "MediumDependent" with Medium Dependent"

CI 00 SC P3 L5 # 2  
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

physical layer (in Keywords section most of the words start with a capital letter, should be uniform)

## SuggestedRemedy

Physical Layer

Proposed Response Response Status W

PROPOSED ACCEPT. Replace "physical layer" with "Physical Layer" as per the IEEE 802.3 Working Group editorial guidelines.

CI 00 SC 0 P11 L26 # 60  
 Maguire, Valerie The Siemon Company

Comment Type E Comment Status D EZ

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 W

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

CI 00 SC 0 P11 L36 # 64  
 Maguire, Valerie The Siemon Company

Comment Type E Comment Status D EZ

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 W

PROPOSED ACCEPT. 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."

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

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

Comment Type E Comment Status D EZ

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 W

PROPOSED ACCEPT. 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."

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

Comment Type E Comment Status D EZ

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 W

PROPOSED ACCEPT. 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."

CI 01 SC 1.5 P 24 L 32 # 188  
Baggett, Tim Microchip

Comment Type E Comment Status D EZ

Incorrect acronym "PLCS" instead of "PLCA"

## SuggestedRemedy

Change "PLCS" to "PLCA"

Proposed Response Response Status W

PROPOSED ACCEPT. Replace "PLCS" on line 32 with "PLCA" (Same resolution proposed for comments #139, #3, and #188)

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**Cl 01**      **SC 1.5**      **P 24**      **L 32**      # **3**  
 Graber, Steffen      Pepperl+Fuchs GmbH

**Comment Type**    **E**      **Comment Status**    **D**      **EZ**  
 PLCS

**SuggestedRemedy**  
 PLCA

**Proposed Response**      **Response Status**    **W**  
 PROPOSED ACCEPT. Replace "PLCS" on line 32 with "PLCA" (Same resolution proposed for comments #139, #3, and #188)

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

**Comment Type**    **ER**      **Comment Status**    **D**      **EZ**  
 PLCS

**SuggestedRemedy**  
 PLCA

**Proposed Response**      **Response Status**    **W**  
 PROPOSED ACCEPT. Replace "PLCS" on line 32 with "PLCA" (Same resolution proposed for comments #139, #3, and #188)

**Cl 45**      **SC 45.2.1.174a.1**      **P 33**      **L 4**      # **189**  
 Baggett, Tim      Microchip

**Comment Type**    **E**      **Comment Status**    **D**      **EZ**  
 "This operation may interrupt data communication." line is not consistent with other reset bit descriptions which include "NOTE -".

**SuggestedRemedy**  
 Change to "NOTE - This operation may interrupt data communication."

**Proposed Response**      **Response Status**    **W**  
 PROPOSED ACCEPT. Replace "This operation may interrupt data communication." with "NOTE - This operation may interrupt data communication." and apply Paragraph tag Note

**Cl 45**      **SC 45.2.1.174c**      **P 36**      **L 13**      # **4**  
 Graber, Steffen      Pepperl+Fuchs GmbH

**Comment Type**    **T**      **Comment Status**    **D**      **EZ**  
 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**    **W**  
 PROPOSED ACCEPT. Replace "0 1 1 = Reserved" with "0 1 1 = Test mode 3"

**Cl 45**      **SC 45.2.1.174d.1**      **P 37**      **L 7**      # **190**  
 Baggett, Tim      Microchip

**Comment Type**    **E**      **Comment Status**    **D**      **EZ**  
 "This operation may interrupt data communication." line is not consistent with other reset bit descriptions which include "NOTE -".

**SuggestedRemedy**  
 Change to "NOTE - This operation may interrupt data communication."

**Proposed Response**      **Response Status**    **W**  
 PROPOSED ACCEPT. Replace "This operation may interrupt data communication." with "NOTE - This operation may interrupt data communication." and apply Paragraph tag Note

**Cl 45**      **SC 45.2.1.174d.3**      **P 37**      **L 22**      # **191**  
 Baggett, Tim      Microchip

**Comment Type**    **E**      **Comment Status**    **D**      **EZ**  
 Incorrect reference to 10BASE-T1L PMA control register/bit 1.2294.11 rather than 10BASE-T1S PMA control.

**SuggestedRemedy**  
 Change "1.2294.11" to "1.2299.11"

**Proposed Response**      **Response Status**    **W**  
 PROPOSED ACCEPT. Change "1.2294.11" to "1.2299.11"

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

Cl 45 SC 45.2.1.174d.3 P 37 L 27 # 192  
Baggett, Tim Microchip

Comment Type E Comment Status D EZ

Incorrect reference to 10BASE-T1L PMA control register/bit 1.2294.11 rather than 10BASE-T1S PMA control.

## SuggestedRemedy

Change "1.2294.11" to "1.2299.11"

Proposed Response Response Status W

PROPOSED ACCEPT. Change "1.2294.11" to "1.2299.11"

Cl 45 SC 45.2.1.174h.1 P 41 L 23 # 193  
Baggett, Tim Microchip

Comment Type E Comment Status D EZ

Incorrect reference section 147.5.2 should be 147.4.1

## SuggestedRemedy

Change "147.5.2" to "147.4.1"

Proposed Response Response Status W

PROPOSED ACCEPT. Change "147.5.2" to "147.4.1"

Cl 104 SC 104.9.4.3 P 76 L 44 # 5  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

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 W

PROPOSED ACCEPT. Change the 2 in "H2f" to subscript, change the 2 in "f2" to subscript, and insert non-breaking space after "±".

Cl 104 SC 104.9.4.4 P 77 L 11 # 6  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

146.8.xxx (reference needs to be specified)

## SuggestedRemedy

146.8.4

Proposed Response Response Status W

PROPOSED ACCEPT. Replace "146.8.xxx" with "146.8.4".

Cl 146 SC 146.1 P 79 L 19 # 7  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

10BASE-T1LPHY (add space before PHY)

## SuggestedRemedy

10BASE-T1L PHY

Proposed Response Response Status W

PROPOSED ACCEPT.

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

Comment Type E Comment Status D EZ

Missed a space between 10BASE-T1L and PHY

## SuggestedRemedy

Add a space between 10BASE-T1L and PHY

Proposed Response Response Status W

PROPOSED ACCEPT. (duplicate of comment 11)

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

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

Comment Type E Comment Status D EZ

. 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 W

PROPOSED ACCEPT IN PRINCIPLE.

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

AND

Remove the editor's note on lines 31 to 36 with similar content.

CI 146 SC 146.1.2 P 81 L 3 # 8  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

. link utilization.. (remove second dot)

## SuggestedRemedy

. link utilization.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 146 SC 146.1.2 P 81 L 11 # 9  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

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

## SuggestedRemedy

The MDI is specified in 146.8.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 146 SC 146.1.2 P 81 L 17 # 10  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

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

## SuggestedRemedy

. in the Task Force review process.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 146 SC 146.1.2 P 81 L 22 # 11  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

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 W

PROPOSED ACCEPT.

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

Comment Type E Comment Status D EZ

wrong format

## SuggestedRemedy

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

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Accomplished by resolution of comment 11

CI 146 SC 146.2 P 82 L 26 # 13  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type T Comment Status D EZ

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 W

PROPOSED ACCEPT.

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

CI 146 SC 146.2 P 82 L 27 # 97  
 Xu, Dayin Rockwell Automation  
 Comment Type T Comment Status D EZ  
 RXD<7:0> should be RXD<3:0>  
 SuggestedRemedy  
 Change RXD<7:0> to RXD<3:0>  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI 146 SC 146.2 P 82 L 27 # 14  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type T Comment Status D EZ  
 TXD<7:0> (MII is only 4 bits wide)  
 SuggestedRemedy  
 TXD<3:0>  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI 146 SC 146.2 P 82 L 28 # 96  
 Xu, Dayin Rockwell Automation  
 Comment Type T Comment Status D EZ  
 TXD<7:0> should be TXD<3:0>  
 SuggestedRemedy  
 Change TXD<7:0> to TXD<3:0>  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI 146 SC 146.2 P 82 L 36 # 15  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type E Comment Status D EZ  
 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 W  
 PROPOSED ACCEPT.

CI 146 SC 146.2 P 82 L 37 # 16  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type T Comment Status D EZ  
 RXD<7:0> (MII is only 4 bits wide)  
 SuggestedRemedy  
 RXD<3:0>  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI 146 SC 146.2.1 P 83 L 17 # 17  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type E Comment Status D EZ  
 Chapter headlines 146.2.1 to 146.2.2.3  
 SuggestedRemedy  
 Please remove these chapter headlines.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI 146 SC 146.3.4.1 P 95 L 28 # 20  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type E Comment Status D EZ  
 RSTCD \* (valid\_dispreset =FALSE) (add space before FALSE)  
 SuggestedRemedy  
 RSTCD \* (valid\_dispreset = FALSE)  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI 146 SC 146.3.4.1 P 96 L 36 # 21  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type E Comment Status D EZ  
 RSTCD \*(Rxn = ESD\_ERR4) (missing space before opening bracket)  
 SuggestedRemedy  
 RSTCD \* (Rxn = ESD\_ERR4)  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

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

CI 146 SC 146.4.4.1 P 104 L 16 # 22  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type E Comment Status D EZ  
 Misalignment of 'detected.'  
 SuggestedRemedy  
 Please align the word 'detected.' below 'Reliable operation .'.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI 146 SC 146.4.4.2 P 104 L 40 # 23  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type E Comment Status D EZ  
 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 W  
 PROPOSED ACCEPT.

CI 146 SC 146.4.4.2 P 104 L 43 # 24  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type E Comment Status D EZ  
 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 W  
 PROPOSED ACCEPT.

CI 146 SC 146.4.4.3 P 105 L 1 # 25  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type E Comment Status D EZ  
 State diagram. (remove dot)  
 SuggestedRemedy  
 State diagram  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI 146 SC 146.5.1 P 106 L 46 # 26  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type E Comment Status D EZ  
 EMC tests. (remove dot)  
 SuggestedRemedy  
 EMC tests  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

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

CI 146 SC 146.5.4.1 P 108 L 42 # 28  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type E Comment Status D EZ  
 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 W  
 PROPOSED ACCEPT.

CI 146 SC 146.5.4.4 P 109 L 8 # 32  
 Graber, Steffen Pepperl+Fuchs GmbH  
 Comment Type E Comment Status D EZ  
 . 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 W  
 PROPOSED ACCEPT.

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

CI 146 SC 146.5.4.4 P 109 L 9 # 34  
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

. 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 W

PROPOSED ACCEPT.

CI 146 SC 146.5.4.4 P 109 L 13 # 35  
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

. are considered in PSD measurement. (add 'the' before 'PSD measurement')

## SuggestedRemedy

. are considered in the PSD measurement.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 146 SC 146.5.4.4 P 109 L 40 # 36  
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

square brackets in Equation (146-7)

## SuggestedRemedy

Please remove the square brackets in Equation (146-7)

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 146 SC 146.5.4.4 P 109 L 51 # 37  
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

square brackets in Equation (146-9)

## SuggestedRemedy

Please remove the square brackets in Equation (146-9)

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 146 SC 146.5.4.4 P 110 L 1 # 38  
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

. is the frequency in MHz (add dot at the end of the sentence)

## SuggestedRemedy

. is the frequency in MHz.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 146 SC 146.5.4.4 P 110 L 11 # 39  
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type T Comment Status D EZ

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 W

PROPOSED ACCEPT.

CI 146 SC 146.5.5.3 P 111 L 33 # 40  
 Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

. within the PHY into account.. (remove second dot)

## SuggestedRemedy

. within the PHY into account.

Proposed Response Response Status W

PROPOSED ACCEPT.

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

CI 146 SC 146.5.6 P 111 L 46 # 41  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

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 W

PROPOSED ACCEPT.

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

Comment Type E Comment Status D EZ

. 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 W

PROPOSED ACCEPT.

CI 146 SC 146.7.1.1 P 114 L 20 # 68  
Hormmeyer, Bernd Phoenix Contact

Comment Type ER Comment Status D EZ

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 W

PROPOSED ACCEPT IN PRINCIPLE.

Resolved with comment#156

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

Comment Type T Comment Status D EZ

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 W

PROPOSED ACCEPT.

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

Comment Type E Comment Status D EZ

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 W

PROPOSED ACCEPT.

CI 146 SC 146.11.4.1.1 P 124 L 28 # 48  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

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 W

PROPOSED ACCEPT.

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

CI 146 SC 146.11.4.1.3 P 126 L 6 # 49  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type T Comment Status D EZ

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 W

PROPOSED ACCEPT.

CI 146 SC 146.11.4.2.1 P 126 L # 51  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type T Comment Status D EZ

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 W

PROPOSED ACCEPT.

CI 146 SC 146.11.4.2.1 P 126 L 37 # 50  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

146.4.2 (font size does not fit)

## SuggestedRemedy

Align font size with rest of the text.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 146 SC 146.11.4.2.2 P 128 L 5 # 52  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

. by setting bits 1.2294.12 as . (change 'bits' to 'bit')

## SuggestedRemedy

. by setting bit 1.2294.12 as .

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 146 SC 146.11.4.2.2 P 128 L 26 # 53  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

. 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 W

PROPOSED ACCEPT.

CI 146 SC 146.11.4.6 P 130 L 26 # 54  
Graber, Steffen Pepperl+Fuchs GmbH

Comment Type E Comment Status D EZ

Less than 6.2  $\mu$ s (64 bit times) (should be 6.4  $\mu$ s instead of 6.2  $\mu$ s)

## SuggestedRemedy

Less than 6.4  $\mu$ s (64 bit times)

Proposed Response Response Status W

PROPOSED ACCEPT.

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

CI 147 SC 147.2 P 133 L 6 # 83  
 Xu, Dayin Rockwell Automation

Comment Type E Comment Status D EZ  
 change "plca\_en signal" to "plca\_en"

SuggestedRemedy  
 change "plca\_en signal" to "plca\_en"

Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 Change "plca\_en signal" to "plca\_en"

CI 147 SC 147.2.1 P 133 L 1 # 109  
 Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status D EZ  
 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 W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 Already dealt with by #83

CI 147 SC 147.2.1 P 133 L 1 # 110  
 Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status D EZ  
 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 W  
 PROPOSED ACCEPT.  
 - Replace "TXCLK" with "TX\_CLK"  
 - Replace "RXCLK" with "RX\_CLK"  
 - Replace "RXDV" with "RX\_DV"  
 - Replace "RXER" with "RX\_ER"

CI 147 SC 147.2.1 P 133 L 1 # 126  
 Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status D EZ  
 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 W  
 PROPOSED ACCEPT.  
 Add label "transmitting" to arrow between "PCS TRANSMIT" and "PCS RECEIVE" blocks

CI 147 SC 147.2.1 P 133 L 4 # 128  
 Beruto, Piergiorgio Canova Tech

Comment Type T Comment Status D EZ  
 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 W  
 PROPOSED ACCEPT.  
 Add an arrow named "duplex\_mode" from "MANAGEMENT" to " COLLISION DETECTION" and to "PCS RECEIVE"  
 Note: this is a new arrow (not present in D1.0)

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

Comment Type E Comment Status D EZ  
 . 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 W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 Change "detected, a ESDERR" to "detected, an ESDERR"

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

CI 147 SC 147.2.2.3 P 138 L 11 # 112  
Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status D EZ  
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 W

PROPOSED ACCEPT.

Change "err <= err + pcs\_txen" to "err <= err + pcs\_txer"

CI 147 SC 147.2.3 P 140 L 19 # 91  
Xu, Dayin Rockwell Automation

Comment Type T Comment Status D EZ  
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 W

PROPOSED ACCEPT.

Change "rx\_data<2:0>" to "rx\_data<3:0>"

CI 147 SC 147.2.3 P 140 L 27 # 92  
Xu, Dayin Rockwell Automation

Comment Type T Comment Status D EZ  
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 W

PROPOSED ACCEPT.

Change "rx\_data<2:0>" to "rx\_data<3:0>"

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

Comment Type E Comment Status D EZ  
typo

## SuggestedRemedy

PDM shouldbe PMD

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

- Change "the PDM shall be" to "the PMD shall be"

- Change "the PDM shall drive" to "the PMD shall drive"

CI 147 SC 147.3.2 P 145 L 3 # 127  
Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status D EZ  
"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 W

PROPOSED ACCEPT IN PRINCIPLE.

Already dealt with by #181

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

Comment Type E Comment Status D EZ  
typo

## SuggestedRemedy

PDM shouldbe PMD

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Already dealt with by #181

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

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

Comment Type TR Comment Status D EZ

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 W

PROPOSED ACCEPT IN PRINCIPLE.

Change "J/J/J/K which replaces the first 16 bit of" to "J/J/J/K which replaces the first 20 bits of"

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

Comment Type E Comment Status D EZ

Typo

## SuggestedRemedy

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

Proposed Response Response Status W

PROPOSED ACCEPT.

Change "UppePSD(f)" to "UpperPSD(f)" in the equation

CI 147 SC 147.6.3 P 150 L 29 # 67  
Maguire, Valerie The Siemon Company

Comment Type E Comment Status D EZ

Capitalization error

## SuggestedRemedy

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

Proposed Response Response Status W

PROPOSED ACCEPT.

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

Comment Type T Comment Status D EZ

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

## SuggestedRemedy

Replace "this subclause" with "Clause 148".

Proposed Response Response Status W

PROPOSED ACCEPT.

Replace "this subclause" with "Clause 148".

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

Comment Type E Comment Status D EZ

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 W

PROPOSED ACCEPT.

In figure 148-2 replace "TXCLK" with "TX\_CLK", replace "TXEN" with "TX\_EN", replace "TXER" with "TX\_ER"

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

Comment Type E Comment Status D EZ

"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 W

PROPOSED ACCEPT.

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

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

Cl 148 SC 148.4.4.1.1 P 159 L 35 # 93  
Xu, Dayin Rockwell Automation

Comment Type T Comment Status D EZ

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 W

PROPOSED ACCEPT.

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

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

Comment Type T Comment Status D EZ

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 W

PROPOSED ACCEPT.

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

Cl 148 SC 148.4.5.2 P 165 L 37 # 134  
Beruto, Piergiorgio Canova Tech

Comment Type E Comment Status D EZ

Missing carriage return before "Values:"

*SuggestedRemedy*

Add carriage return at line 37 before "Value:"

Proposed Response Response Status W

PROPOSED ACCEPT.

Add carriage return at line 37 before "Value:"

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

Comment Type E Comment Status D EZ

In figure 148-6 TXEN should be TX\_EN

*SuggestedRemedy*

In figure 148-6 substitute "TXEN" with "TX\_EN"

Proposed Response Response Status W

PROPOSED ACCEPT.

In figure 148-6 substitute "TXEN" with "TX\_EN"