

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

CI **FM** SC **FM** P1 L8 # 151
 Carlson, Steve HSD Bosch Ethernovia
 Comment Type **E** Comment Status **X**
 Change title to reflect 25GBASE-T1 only and change admendment number.
 SuggestedRemedy
 Draft Standard for Ethernet Amendment 10: Physical Layer Specifications and Management Parameters 25 Gb/s Electrical Automotive Ethernet
 Proposed Response Response Status **O**

CI **FM** SC **FM** P1 L29 # 152
 Carlson, Steve HSD Bosch Ethernovia
 Comment Type **E** Comment Status **X**
 Change title to reflect 25GBASE-T1 only and change admendment number.
 SuggestedRemedy
 Change to: This draft is an amendment of IEEE Std 802.3-2022 as amended by IEEE Std 802.3dd-2022 ,IEEE Std 802.3cs-2022, IEEE Std 802.3db-2022, IEEE Std 802.3de-2022, and IEEE Std 802.3cx-202x. The purpose of the amendment is to specify physical layer specifications and management parameters for 25 Gb/s operation on automotive cabling in an automotive application. Draft D1.3 is prepared for the Task Force review. This draft expires 6 months after the date of publication or when the next version is published, whichever comes first.
 Proposed Response Response Status **O**

CI **FM** SC **FM** P2 L3 # 153
 Carlson, Steve HSD Bosch Ethernovia
 Comment Type **E** Comment Status **X**
 Add Abstract
 SuggestedRemedy
 Abstract: This amendment to IEEE Std 802.3-2022 adds physical layer specifications and management parameters for 25 Gb/s operation on a single balanced pair of conductors suitable for automotive applications
 Proposed Response Response Status **O**

CI **FM** SC **FM** P2 L4 # 154
 Carlson, Steve HSD Bosch Ethernovia
 Comment Type **E** Comment Status **X**
 Add Keywords
 SuggestedRemedy
 25GBASE-T1; Automotive Ethernet; IEEE 802.3cy™; MASTER/SLAVE; Medium Dependent Interface; Physical Coding Sublayer; Physical Layer; Physical Medium Attachment.
 Proposed Response Response Status **O**

CI **FM** SC **FM** P12 L # 155
 Carlson, Steve HSD Bosch Ethernovia
 Comment Type **E** Comment Status **X**
 SuggestedRemedy
 IEEE Std 802.3cy™-20xx: This amendment includes changes to IEEE Std 802.3-2022 and adds Clause 165 and Annex 165A. This amendment adds physical layer specifications and management parameters for operation at 25 Gb/s over a single balanced pair of conductors.
 Proposed Response Response Status **O**

CI **00** SC **0** P L # 199
 Wienckowski, Natalie General Motors
 Comment Type **T** Comment Status **X**
 SuggestedRemedy
 Change: <<.3cy PHY>>
 To: 25GBASE-T1
 Proposed Response Response Status **O**

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 00 SC 0 P0 L0 # 146

Hajduczenia, Marek Charter
Comment Type E Comment Status X

There are multiple broken cross references in the draft right now that need attention. Most are caused by deletion of subclauses between D1.1 and D1.2. Individual locations are listed with potential resolution

SuggestedRemedy

- All locations are provided using page / line reference
- 161 / 7, Figure 165-25 was removed; reference back to Clause 149?
- 169 / 29 and 151 / 3, references to 165.5.6 and 165.5.7 are errored, since subclauses were removed in D1.2; reference back to Clause 149?
- 161 / 24-34, references to 165.3.9.2.13 through 165.3.9.2.15 are errored, since subclauses were removed in D1.2; reference back to Clause 149?
- 161 / 28, Figure 165-23 was removed; reference back to Clause 149?
- 166 / 26, 167 / 40, 167 / 438, reference to 165.5.6 is broken, it was removed in D1.2; reference back to Clause 149?
- 139 / 3, 126 / 29, 116 / 20, and 73 / 4, reference to 165.5.6 is errored, since subclause was removed in D1.2; reference back to Clause 149?

Fix all external broken cross references to other clauses and replace them with text in forest green (external reference). There are too many locations to list them all, they can be easily located in FM.

Proposed Response Response Status O

Cl 1 SC 1.3 P24 L # 156

Carlson, Steve HSD Bosch Ethernovia
Comment Type T Comment Status X

P802.3cy has made no additions to C 1.3

SuggestedRemedy

Delete C 1.3 from the draft

Proposed Response Response Status O

Cl 1 SC 1.5 P25 L # 157

Carlson, Steve HSD Bosch Ethernovia
Comment Type T Comment Status X

P802.3cy has made no additions to C 1.5

SuggestedRemedy

Delete C 1.5 from the draft

Proposed Response Response Status O

Cl 30 SC 30.3.2.1.2 P23 L17 # 162

Wienckowski, Natalie General Motors
Comment Type T Comment Status X

Delete the text for 50GBASE-T2 and 100GBASE-T4.

SuggestedRemedy

Delete: Insert the following new entry in the APPROPRIATE SYNTAX section of 30.3.2.1.2 after the entry for "50GBASE-R" as follows:
50GBASE-T2 Clause 165 50 Gb/s PAM4
Insert the following new entry in the APPROPRIATE SYNTAX section of 30.3.2.1.2 after the entry for "100GBASE-R" as follows:
100GBASE-T4 Clause 165 100 Gb/s PAM4

Proposed Response Response Status O

Cl 30 SC 30.3.2.1.3 P23 L34 # 163

Wienckowski, Natalie General Motors
Comment Type T Comment Status X

Delete the text for 50GBASE-T2 and 100GBASE-T4.

SuggestedRemedy

Delete: Insert the following new entry in the APPROPRIATE SYNTAX section of 30.3.2.1.3 after the entry for "50GBASE-R" as follows:
50GBASE-T2 Clause 165 50 Gb/s PAM4
Insert the following new entry in the APPROPRIATE SYNTAX section of 30.3.2.1.3 after the entry for "100GBASE-R" as follows:
100GBASE-T4 Clause 165 100 Gb/s PAM4

Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 30 SC 30.5.1.1.2 P24 L3 # 164

Wienckowski, Natalie General Motors

Comment Type T Comment Status X

Delete the text for 50GBASE-T2 and 100GBASE-T4.

SuggestedRemedy

Delete: Insert the following new entry in the APPROPRIATE SYNTAX section of 30.5.1.1.2 after the entry for "50GBASE-SR" as follows:

50GBASE-T2 Two balanced pair of conductors PHY as specified in Clause 165

Insert the following new entry in the APPROPRIATE SYNTAX section of 30.5.1.1.2 after the entry for "100GBASE-SR10" as follows:

100GBASE-T4 Four balanced pair of conductors PHY as specified in Clause 165

Proposed Response Response Status O

Cl 30 SC 30.6.1.1.5 P24 L27 # 165

Wienckowski, Natalie General Motors

Comment Type T Comment Status X

Delete the text for 50GBASE-T2 and 100GBASE-T4.

SuggestedRemedy

Delete:

Insert the following new entry in the APPROPRIATE SYNTAX section of 30.6.1.1.5 after the entry for "50GBASE-R" as follows:

50GBASE-T2 50GBASE-T2 as specified in Clause 165

Insert the following new entry in the APPROPRIATE SYNTAX section of 30.6.1.1.5 after the entry for "100GBASE-R" as follows:

100GBASE-T4 100GBASE-T4 as specified in Clause 165

Proposed Response Response Status O

Cl 45 SC 45.2.1.7.4 P26 L35 # 182

Wienckowski, Natalie General Motors

Comment Type T Comment Status X

Delete the text for 50GBASE-T2 and 100GBASE-T4.

SuggestedRemedy

Change contents of PMA/PMD column to: 25GBASE-T1

Proposed Response Response Status O

Cl 45 SC 45.2.1.7.5 P26 L51 # 183

Wienckowski, Natalie General Motors

Comment Type T Comment Status X

Delete the text for 50GBASE-T2 and 100GBASE-T4.

SuggestedRemedy

Change contents of PMA/PMD column to: 25GBASE-T1

Proposed Response Response Status O

Cl 45 SC 45.2.1.16 P27 L11 # 166

Wienckowski, Natalie General Motors

Comment Type T Comment Status X

Delete the text for 50GBASE-T2 and 100GBASE-T4.

SuggestedRemedy

In Table 45-19 change the text to the following.

-x- indicates to strikethrough "x"

y indicates to underline "y"

Change the "Bit(s)" column in the Reserved row to 1.18.15:_8_-7-

Delete the rows for 1.18.9 and 1.18.8.

Proposed Response Response Status O

Cl 45 SC 45.2.1.16 P27 L25 # 167

Wienckowski, Natalie General Motors

Comment Type E Comment Status X

Delete the text for 50GBASE-T2 and 100GBASE-T4.

SuggestedRemedy

Delete: Editorial Note (to be removed prior to publication): The use of 50GBASE-T2 and 100GBASE-T4 subject to future discussion about laning and where laning happens (below or above MII)

Delete the same note on P28L28, P30L15, P170L29, P170L42.

Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 45 SC 45.2.1.16 P27 L28 # 168

Wienckowski, Natalie General Motors
Comment Type E Comment Status X

SuggestedRemedy

Change: Insert three new subclauses ahead of subclause 45.2.1.16.1, as shown follows:
To: Insert three a subclause ahead of subclause 45.2.1.16.1, as shown follows:

Proposed Response Response Status O

Cl 45 SC 45.2.1.16 P27 L30 # 169

Wienckowski, Natalie General Motors
Comment Type T Comment Status X

Delete the text for 50GBASE-T2 and 100GBASE-T4.

SuggestedRemedy

Delete 45.2.1.16.a and 45.2.1.16.b.
Change 45.2.1.16.c to 45.2.1.16.a.

Proposed Response Response Status O

Cl 45 SC 45.2.1.214 P28 L12 # 170

Wienckowski, Natalie General Motors
Comment Type T Comment Status X

Delete the text for 50GBASE-T2 and 100GBASE-T4.

SuggestedRemedy

-x- indicates to strikethrough "x"
y indicates to underline "y"
Change the "Description" column for "Type Selection" to the following
1xxx = Reserved
-0111 = Reserved-
0111 = 25GBASE-T1
The remainder of this cell is the same from 10GBASE-T1 through 100BASE-T1.

Proposed Response Response Status O

Cl 45 SC 45.2.1.214.2 P28 L41 # 171

Wienckowski, Natalie General Motors
Comment Type T Comment Status X

Delete the text for 50GBASE-T2 and 100GBASE-T4.

SuggestedRemedy

Delete: When these bits are set to 1000, the mode of operation is 50GBASE-T2. When these bits are set to 1001, the mode of operation is 100GBASE-T4.

Proposed Response Response Status O

Cl 45 SC 45.2.1.244 P29 L12 # 172

Wienckowski, Natalie General Motors
Comment Type T Comment Status X

Delete the text for 50GBASE-T2 and 100GBASE-T4.

SuggestedRemedy

Delete: 50GBASE-T2, and 100GBASE-T4,

Proposed Response Response Status O

Cl 45 SC 45.2.1.244.1 P29 L26 # 160

Wienckowski, Natalie General Motors
Comment Type E Comment Status X

The addition of L=8 exclusions is not consistent with the original text.

SuggestedRemedy

Change the text to the following.
-x- indicates to strikethrough "x"
y indicates to underline "y"
The values of L=2_,_-and- L=4_,_ and L=8_ are not defined for 2.5GBASE-T1 PHYs, -and- the value_s_ of L=4 _and L=8 are_-is- not defined for 5GBASE-T1 PHYs_, and the value of L=8 is not defined for 10GBASE-T1 PHYs._

Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

CI 45 SC 45.2.1.245 P29 L49 # 173
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
 SuggestedRemedy
 Delete: 50GBASE-T2, and 100GBASE-T4,
 Proposed Response Response Status O

CI 78 SC 78.1.4 P41 L5 # 174
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 Change the instructions.
 SuggestedRemedy
 Delete: , insert a row for 50GBASE-T2 after 40GBASE-T, and insert a row for 100GBASE-T4 after 100GBASE-CR10
 Proposed Response Response Status O

CI 45 SC 45.2.3 P31 L28 # 161
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 Editor's note is no longer needed as the OAM registers were removed in D1.2.
 SuggestedRemedy
 Delete: Editor's Note (to be removed prior to the first Working Group ballot): Reviewers are encouraged to consider whether the following "MultiGBASE-T1 OAM registers" can be used "as-is" or if new registers are needed.
 Proposed Response Response Status O

CI 78 SC 78.1.4 P41 L18 # 175
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
 SuggestedRemedy
 Delete the 50GBASE-T2 and 100GBASE-T4 rows and the rows with ellipses after each of them.
 Proposed Response Response Status O

CI 78 SC 78.1 P41 L2 # 184
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 missing title
 SuggestedRemedy
 Between 78 and 78.1.2 add: 78.1 Overview
 Proposed Response Response Status O

CI 78 SC 78.2 P41 L27 # 176
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 Change the instructions.
 SuggestedRemedy
 Delete: , insert a row for 50GBASE-T2 after 40GBASE-T, and insert a row for 100GBASE-T4 after 100GBASE-CR10
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

CI 78 SC 78.2 P41 L45 # 177
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
 SuggestedRemedy
 Delete the 50GBASE-T2 and 100GBASE-T4 rows and the rows with elipses after each of them.
 Proposed Response Response Status O

CI 78 SC 78.5 P42 L27 # 180
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 Change the instructions.
 SuggestedRemedy
 Change the editor's instructions to: Insert a row in Table 78-3 for 25GBASE-T1 after 25GBASE-T as follows (unchanged rows not shown):
 Proposed Response Response Status O

CI 78 SC 78.3 P42 L5 # 178
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
 SuggestedRemedy
 Change: The EEE capability for 25GBASE-T1, 50GBASE-T2, and 100GBASE-T4 shall be advertised during link training according to 165.4.2.4.10.
 To: The EEE capability for 25GBASE-T1 shall be advertised during link training according to 165.4.2.4.10.
 Proposed Response Response Status O

CI 78 SC 78.5 P43 L8 # 181
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
 SuggestedRemedy
 Delete the 50GBASE-T2 and 100GBASE-T4 rows and the rows with elipses after each of them.
 Proposed Response Response Status O

CI 78 SC 78.3 P42 L11 # 179
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
 SuggestedRemedy
 Remove the strikethrough in "and" and delete: , 50GBASE-T2, and 100GBASE-T4
 Proposed Response Response Status O

CI 78 SC Table 78-2 P41 L42 # 253
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status X
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Updates on slide 4 of jonsson_3cy_01_06_14_22
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

CI 78 SC Table 78-3 P42 L40 # 254
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status X
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Updates on slide 5 of jonsson_3cy_01_06_14_22
 Proposed Response Response Status O

CI 80 SC 80 P47 L1 # 185
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Delete the text for 100GBASE-T4.
 SuggestedRemedy
 Remove Cluase 80 from the draft.
 Proposed Response Response Status O

CI 98 SC 98.5.1 P52 L8 # 186
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 Change the instructions.
 SuggestedRemedy
 Change the editor's instructions to: Insert a new variable, 25GigT1, at the end of the list as shown below
 Proposed Response Response Status O

CI 98 SC 98.5.1 P52 L24 # 187
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
 SuggestedRemedy
 Delete: — 50GigT2; represents that the 50GBASE-T2 PMA is the signal source.
 — 100GigT4;represents that the 100GBASE-T4 PMA is the signal source.
 Proposed Response Response Status O

CI 98B SC 98B.3 P170 L22 # 191
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Remove 50GBASE-T2 and 100GBASE-T4 from Table 98B-1.
 SuggestedRemedy
 Delete rows for A7 and A8
 Change Reserved row to the following: -A6- _A7_ through A8 | Reserved
 Proposed Response Response Status O

CI 98B SC 98B.4 P170 L35 # 193
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Change the instructions.
 SuggestedRemedy
 Change the editor's instructions to:Insert the following new entry in the dashed list before the entry for 10GBASE-T1 as follows:
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 98B SC 98B.4 P170 L37 # 192
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
 SuggestedRemedy
 Delete: —100GBASE-T4
 —50GBASE-T2
 Proposed Response Response Status O

Cl 105 SC 105.1.3 P55 L18 # 198
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Replace the TBD
 SuggestedRemedy
 Change: <<TBD>>
 To: Reed–Solomon encoding and PAM4 modulation over a single balanced pair of conductors
 Proposed Response Response Status O

Cl 105 SC 105.1.1 P54 L12 # 189
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 fix typo
 SuggestedRemedy
 Change 50GBASE-T2 to 25GBASE-T1.
 Proposed Response Response Status O

Cl 105 SC 105.5 P56 L30 # 200
 Sedarat, Hossein Ethernovia
 Comment Type T Comment Status X
 The entries of table 105-3 are missing.
 SuggestedRemedy
 Add the following to the table:

L	Bit Time	Pause Quanta	Time ns
1	25600	50	1024
2	36864	72	1474.56
4	58880	115	2355.2
8	102400	200	4096

These same entries should also be included in table 165-17.

Proposed Response Response Status O

Cl 105 SC 105.1.3 P55 L7 # 197
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Replace the TBD
 SuggestedRemedy
 Change: <<TBD>>
 To: baseband medium, for transmitting 25 Gb/s Ethernet over a point-to-point single balanced pair of conductors. 25GBASE-T1 uses Reed-Solomon FEC in its Physical Coding Sublayers mapped to PAM4 for transmission on a single balanced pair of conductors.
 Proposed Response Response Status O

Cl 131 SC 131 P58 L1 # 188
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Delete the text for 50GBASE-T2.
 SuggestedRemedy
 Remove Cluase 105 from the draft.
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 165 SC 165 P61 L5 # 214
 Zimmerman, George CME Consulting/various
 Comment Type E Comment Status X
 Replace <<.3cy PHY>> in title, and elsewhere in clause 165 with 25GBASE-T1
 SuggestedRemedy
 see comment
 Proposed Response Response Status O

Cl 165 SC 165.2.2.1 P70 L36 # 216
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 a MultiGBASE-T1 link' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.2 P68 L43 # 215
 Zimmerman, George CME Consulting/various
 Comment Type E Comment Status X
 Delete editorial note and accept content of 165.2 (subject to changes in other comments)
 SuggestedRemedy
 see comment
 Proposed Response Response Status O

Cl 165 SC 165.2.2.2 P62 L3 # 217
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 a MultiGBASE-T1 link' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.2.1.2.1 P69 L49 # 213
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 "that a valid MultiGBASE-T1 link" - should just refer to 25GBASE-T1. This clause only refers to 25GBASE-T1.
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.3.1 P77 L24 # 219
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.2.2 P70 L12 # 218
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.3.2.2 P79 L5 # 220
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 165 SC 165.3.2.2.3 P81 L46 # 221
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.3.2.2.13 P86 L16 # 225
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.3.2.2.4 P83 L12 # 222
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.3.6.1 P97 L18 # 258
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status X
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Text on slide 6 of jonsson_etal_3cy_01a_06_07_22
 Proposed Response Response Status O

Cl 165 SC 165.3.2.2.4 P83 L50 # 223
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.3.6.2 P98 L14 # 261
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status X
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Text on slide 4 of jonsson_etal_3cy_01a_06_07_22
 Proposed Response Response Status O

Cl 165 SC 165.3.2.2.9 P85 L1 # 224
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.3.6.3 P98 L19 # 226
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 165 SC 165.3.7.2.3 P101 L 32 # 204
 Tu, Mike Broadcom
 Comment Type T Comment Status X
 The rfer_timer is 312500 bit times based on 45.2.3.87.2. For 25GBASE-T1, this translates to 12.5usec. Allow +- 1% in timer uncertainty.
 SuggestedRemedy
 Change 1st sentence to: "Timer that is triggered every 12.5us +- 1%."
 Proposed Response Response Status O

Cl 165 SC 165.3.9 P112 L 6 # 230
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.3.7.2.4 P102 L 47 # 227
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.3.9.2 P112 L 24 # 231
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 The MultiGBASE-T1 OAM functions are... should refer to 25GBASE-T1 - here the other one is called MultiGBASE-T1 (cl 149) so it is doubly confusing
 SuggestedRemedy
 change the both instances of MultiGBASE-T1 in the sentence to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.3.7.3 P107 L 43 # 228
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.3.9.2.1 P112 L 26 # 232
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change header to 25GBASE-T1 OAM frame structure, and change first sentence (L29) to "The 25GBASE-T1 OAM frame..."
 Proposed Response Response Status O

Cl 165 SC 165.3.9 P112 L 4 # 229
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 165 SC 165.4.1 P114 L50 # 233
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.4.2.1 P116 L7 # 234
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.4.2.2 P116 L12 # 245
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 "a four-level modulated signal" - it can also generate zero...
 SuggestedRemedy
 Insert new sentence after first sentence - "The PMA Transmit function also generates a zero output symbol when required for training, test, or EEE operation."
 Proposed Response Response Status O

Cl 165 SC 165.4.2.3 P116 L53 # 246
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 "The loc_rcvr_status variable is expected to become NOT_OK when the link partner's tx_mode changes to SEND_Z from any other value (see the PHY Control state diagram in Figure 165-28)." - Note that the receiver (which this describes) needs to understand the difference between SEND_Z and QUIET when in EEE LPI quiet-refresh signaling.
 SuggestedRemedy
 Insert new sentence after quoted sentence - "Note that during quiet-refresh signalling, QUIET is represented by periods of zeros, and this should not, in itself, trigger the loc_rcvr_status variable to indicate NOT_OK."
 Proposed Response Response Status O

Cl 165 SC 165.4.2.4.5 P119 L32 # 235
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.4.2.4.10 P121 L5 # 250
 Razavi Majomard, seid alireza Marvell
 Comment Type T Comment Status X
 maximum time is 40-0.384
 SuggestedRemedy
 maximum time is 20-0.384 as described in majomard_tahir_jonsson_3cy_01a_06_07_22.pdf, slide 4
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 165 SC 165.4.2.4.10 P121 L18 # 251
 Razavi Majomard, seid alireza Marvell
 Comment Type T Comment Status X
 maximum time is 40
 SuggestedRemedy
 maximum time is 20 as described in
 majomard_tahir_jonsson_3cy_01a_06_07_22.pdf,slide 4
 Proposed Response Response Status O

Cl 165 SC 165.4.2.6 P123 L20 # 247
 Wu, Peter Marvell
 Comment Type TR Comment Status X
 a fixed value of 16, " It was agreed on in the motion at the meeting on Jan 22, 2022
https://www.ieee802.org/3/cy/public/jan22/Wu_3cy_01a_0122.pdf - Page 6.
 SuggestedRemedy
 a fixed value of 16
 Proposed Response Response Status O

Cl 165 SC 165.4.2.5 P121 L39 # 236
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.4.2.6 P123 L31 # 248
 Wu, Peter Marvell
 Comment Type ER Comment Status X
 "TBD" is still used as description
 SuggestedRemedy
 An integer value that counts the number of frames of SEND_S signal being sent at SLAVE
 Proposed Response Response Status O

Cl 165 SC 165.4.2.6 P122 L39 # 237
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.4.2.7 P126 L7 # 249
 Graba, Jim Broadcm
 Comment Type TR Comment Status X
 Update Refresh Monitor TBD length of time without a Refresh.
 SuggestedRemedy
 Change "nominally equal to TBD ms" to "nominally equal to 1.597 ms".
 Proposed Response Response Status O

Cl 165 SC 165.4.3.1 P126 L21 # 264
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status X
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Text on slide 5 of jonsson_etal_3cy_01a_06_07_22
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 165 SC 165.4.4.1 P128 L25 # 252
 Razavi Majomard, seid alireza Marvell
 Comment Type T Comment Status X
 timing_lock_OK is not defined
 SuggestedRemedy
 In the TRAINING state, whenever slave operating in loop timing lockes the Master timing reference, it sets timing_lock_OK=1.
 Proposed Response Response Status O

Cl 165 SC 165.5.1 P132 L8 # 207
 Tu, Mike Broadcom
 Comment Type T Comment Status X
 The test mode 6 output waveform should be the same as for 10GBASE-T1. We need to increase the number of samples by 2.5X for 25GBASE-T1.
 SuggestedRemedy
 Change to "... a continuous pattern of 320 {+1} symbols followed by 320 {-1} symbols ..."
 Proposed Response Response Status O

Cl 165 SC 165.4.4.2 P128 L52 # 265
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status X
 Replace TBD with actual value
 SuggestedRemedy
 The TBD value should be 1.59744 ms
 Proposed Response Response Status O

Cl 165 SC 165.5.2 P134 L6 # 190
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 fix figure and Title of Figure 165-35
 SuggestedRemedy
 Delete text in the Figure: 50GBASE-T2: 2x
 100GBASE-T4: 4x
 Change the figure title to: 25GBASE-T1 link
 Proposed Response Response Status O

Cl 165 SC 165.5.1 P131 L41 # 205
 Tu, Mike Broadcom
 Comment Type T Comment Status X
 For 25GBASE-T1, the output test clock frequency should be increased to improve measurement accuracy.
 Propose to use $14.0625\text{MHz} / 16 = 878.90625\text{MHz}$ as the output frequency.
 SuggestedRemedy
 Replace in entire D1.2:
 1. Change all "TX_TCLK_175" to "TX_TCLK_879"
 2. Change all "175.78125MHz" to "878.90625MHz"
 Proposed Response Response Status O

Cl 165 SC 165.5.3.1 P135 L24 # 208
 Tu, Mike Broadcom
 Comment Type T Comment Status X
 Remove the editorial note
 SuggestedRemedy
 Remove the editorial note
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 165 SC 165.5.3.2 P135 L40 # 209
 Tu, Mike Broadcom
 Comment Type T Comment Status X
 Keep 38dB SNDR requirement for 25GBASE-T1
 SuggestedRemedy
 1. Remove editorial note from line 34 to 36
 2. Change the last sentence to "... shall exceed 38dB in 25GBASE-T1 mode."
 Proposed Response Response Status O

Cl 165 SC 165.5.3.3.1 P136 L28 # 206
 Tu, Mike Broadcom
 Comment Type T Comment Status X
 In Table 165-14, change to new MDI output square wave frequency.
 SuggestedRemedy
 Change "TX_TCLK_175" to "TX_TCLK_879"
 Proposed Response Response Status O

Cl 165 SC 165.5.3.3 P135 L49 # 210
 Tu, Mike Broadcom
 Comment Type T Comment Status X
 For 25GBASE-T1, the jitter requirements should be 0.4x of the corresponding limits for 10GBASE-T1.
 SuggestedRemedy
 1. Change all "TX_TCLK_175" to "TX_TCLK_879"
 2. Change page 135 start of line 53 from "... 1/S ps" to "... 0.4ps".
 3. Change page 135 line 54 from "... shall be less than 10/S ps" to "... shall be less than 4 ps".
 4. Change page 136 line 2 from "... shall be less than 2/S ps" to "... shall be less than 0.8 ps".
 5. Change page 136 line 4 from "... than 20/S ps" to "... than 8 ps".
 6. Change page 136 line 6 from "... an interval of 1ms +- 10%" to "... and interval of 0.4ms +- 10%"
 Proposed Response Response Status O

Cl 165 SC 165.5.3.3.2 P136 L43 # 212
 Tu, Mike Broadcom
 Comment Type T Comment Status X
 For 25GBASE_T1, replace scaling factor "S" by "2.5".
 SuggestedRemedy
 Replace all scaling factor "S" by "2.5", then use the actual calculated numbers. For example "1 x S MHz" becomes "2.5 MHz", and "68 / S ns" becomes "27.2 ns".
 Proposed Response Response Status O

Cl 165 SC 165.5.3.3.1 P136 L16 # 211
 Tu, Mike Broadcom
 Comment Type T Comment Status X
 For 25GBASE-T1, the jitter requirements should be 0.4x of the corresponding limits for 10GBASE-T1.
 SuggestedRemedy
 1. Replace all scaling factor "S" by "2.5", then use the actual calculated numbers. For example "1/S" will become "0.4".
 2. On line 18, change from "... an interval of 1 ms +- 10%" to "... an interval of 0.4 ms +- 10%".
 Proposed Response Response Status O

Cl 165 SC 165.5.4.2 P139 L37 # 267
 Kadry, Haysam Ford Motor Company
 Comment Type T Comment Status X
 Fill in table, at this point alien crosstalk is same as 802.3ch
 SuggestedRemedy
 In first empty row 25GBASE-T1 | 3500 | -152
 Delete two remaining rows
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 165 SC 165.5.5.3.1 P141 L38 # 268
 Kadry, Haysam Ford Motor Company
 Comment Type T Comment Status X
 Add equation for max IL
 SuggestedRemedy
 $1.05 * [0.06109 * (f/1000) + 0.3404 * (f/1000)^{0.45}] + 0.2 * \text{sqrt}(f/2500)$, $10 \leq f \leq 9000$, f is in MHz
 Proposed Response Response Status O

Cl 165 SC 165.5.5.3.3 P142 L13 # 271
 Kadry, Haysam Ford Motor Company
 Comment Type T Comment Status X
 Add conversion loss equation
 SuggestedRemedy
 Mode convesion $\geq 30\text{dB}$ $10 \leq f \leq 9000$, f is in MHz
 Proposed Response Response Status O

Cl 165 SC 165.5.5.3.1 P141 L41 # 269
 Kadry, Haysam Ford Motor Company
 Comment Type T Comment Status X
 Add equation for min IL
 SuggestedRemedy
 $0.95 * [0.06109 * (f/1000) + 0.3404 * (f/1000)^{0.45}] + 0.2 * \text{sqrt}(f/2500)$, $10 \leq f \leq 9000$, f is in MHz
 Proposed Response Response Status O

Cl 165 SC 165.5.5.3.4 P142 L20 # 272
 Kadry, Haysam Ford Motor Company
 Comment Type T Comment Status X
 Add crosstalk loss
 SuggestedRemedy
 $(78 - 15 * \log_{10}(f/100))$ $10 \leq f < 215$)
 $\text{XTF} \geq (83 - 15 * \log_{10}(f/100))$ $215 \leq f < 9000$) dB, f is in MHz
 Proposed Response Response Status O

Cl 165 SC 165.5.5.3.2 P142 L7 # 270
 Kadry, Haysam Ford Motor Company
 Comment Type T Comment Status X
 Add RL equation
 SuggestedRemedy
 $(25 - 16.6 * \log_{10}(f/1500))$ $10 \leq f < 1500$)
 $\text{RL} \geq (20 - 16.6 * \log_{10}(f/1500))$ $1500 \leq f < 3000$) dB, f is in MHz
 $(20 - 16.6 * \log_{10}(f/1500))$ $3000 \leq f \leq 9000$)
 Proposed Response Response Status O

Cl 165 SC 165.7.1 P142 L49 # 238
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.7.1.1 P143 L3 # 239
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 165 SC 165.7.1.1 P143 L3 # 150
 Hajduczenia, Marek Charter
 Comment Type T Comment Status X
 There are multiple instances of "MultiGBASE-T1" in Clause 165, but it seems that we have converged on using 25GBASE-T1, since that is what we are specifying, with optional bonding for 50G and 100G operation.
 SuggestedRemedy
 Change all instances of MultiGBASE-T1 to 25GBASE-T1 in Clause 165 and Annex 165A
 Proposed Response Response Status O

Cl 165 SC 165.7.1.3.2 P144 L49 # 202
 Sedarat, Hossein Ethernovia
 Comment Type T Comment Status X
 The definition for ETM has to be refined for correct representation of the power of micro-reflections.
 SuggestedRemedy
 Use document 802d3_TFR_WGB_comments_HosseinSedarat for changes
 Proposed Response Response Status O

Cl 165 SC 165.7.1.3.2 P145 L44 # 266
 Jonsson, Ragnar Marvell
 Comment Type ER Comment Status X
 Invalid equation reference
 SuggestedRemedy
 The equation reference "xxx-3" should be changed to "(165-28)
 Proposed Response Response Status O

Cl 165 SC 165.7.1.3.4 P146 L54 # 203
 Sedarat, Hossein Ethernovia
 Comment Type T Comment Status X
 The limit for ETM is also needs to be clear of TBDs.
 SuggestedRemedy
 Use document 802d3_TFR_WGB_comments_HosseinSedarat for changes
 Proposed Response Response Status O

Cl 165 SC 165.7.1.4 P147 L17 # 240
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.7.1.6 P148 L52 # 241
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.7.2 P148 L41 # 273
 Kadry, Haysam Ford Motor Company
 Comment Type E Comment Status X
 SuggestedRemedy
 Remove editorial note
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 165 SC 165.8 P150 L42 # 195
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 Delete Editorial Note.
 SuggestedRemedy
 Delete: Editorial Note (to be removed prior to publication): The content of this subclause has not been explicitly approved and has been included to stimulate discussion. TF participants are encouraged to carefully review this content and comment as needed.
 Proposed Response Response Status O

Cl 165 SC 165.8.2.1 P151 L15 # 196
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Remove "S" and replace with appropriate values.
 SuggestedRemedy
 Change: 280S to 700 in 3 places
 Change: 2800S to 7000 in 2 places
 Change: Fmax to 10 000
 Change: 4000 x S to 10 000
 Proposed Response Response Status O

Cl 165 SC 165.10 P153 L17 # 201
 Sedarat, Hossein Ethernovia
 Comment Type T Comment Status X
 The entries of table 165-17 are missing
 SuggestedRemedy
 Use the entries from table 105-3 for table 165-17. These entries are repeated here:

L	Bit Time	Pause Quanta	Time ns
1	25600	50	1024
2	36864	72	1474.56
4	58880	115	2355.2
8	102400	200	4096

 Proposed Response Response Status O

Cl 165 SC 165.11.3 P155 L17 # 242
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.11.4.2.1 P156 L16 # 158
 Carlson, Steve HSD Bosch Ethernovia
 Comment Type T Comment Status X
 PCT15 needs to be updated to P802.3cy values
 SuggestedRemedy
 Change PCT15 Value/Comment to: The RS-FEC encoding takes the 8460-bit vector, consisting of tx_group130x65B, and the 10-bit OAM_field, and shall generate the 90 10-bit parity symbols (900 bits total).
 Proposed Response Response Status O

Cl 165 SC 165.11.4.2.8 P L8 # 159
 Carlson, Steve HSD Bosch Ethernovia
 Comment Type T Comment Status X
 OAM2 needs to be updated to P802.3cy values
 SuggestedRemedy
 Change OAM2 Feature to: When the PCS frame is operating in interleaved mode of 2x, 4x, or 8x the first symbol (OAM<0>) shall be inserted in the first RS frame in the superframe so that the full OAM frame can be packed into eight superframes in the 2x interleaved mode, into four superframes in the 4x interleaved mode, and into two superframes in the 8x interleaved mode.
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

CI 165 SC 165.11.4.3.2 P162 L 22 # 283
Lewis, Jon Dell Technologies
Comment Type T Comment Status X
Value / Comment should bpoint to 165.5.6
SuggestedRemedy
Change Value / Comment to "Comply with 165.5.6"
Proposed Response Response Status O

CI 165 SC 165.11.4.3.3 P163 L 10 # 284
Lewis, Jon Dell Technologies
Comment Type T Comment Status X
Feature doesn't specify 45.2.17.5
SuggestedRemedy
Change Feature to "If the MDIO interface is implemented, then this function shall contribute to the receive fault bit specified in 45.2.17.5 and 45.2.1.193.7."
Proposed Response Response Status O

CI 165 SC 165.11.4.3.2 P162 L 25 # 285
Lewis, Jon Dell Technologies
Comment Type T Comment Status X
Feature should be more descriptive
SuggestedRemedy
Change Feature to "TX_TCLK source when the PMA_CONFIG.indication parameter config is MASTER"
Proposed Response Response Status O

CI 165 SC 165.11.4.3.4 P163 L 39 # 287
Lewis, Jon Dell Technologies
Comment Type T Comment Status X
Duplicate feature in PCF7 and PCF8 for the receiver
SuggestedRemedy
Change Feature to "Any Message Field value not listed in Table 165-7 or Table 165-8 shall not be transmitted"
Proposed Response Response Status O

CI 165 SC 165.11.4.3.2 P162 L 31 # 286
Lewis, Jon Dell Technologies
Comment Type T Comment Status X
Feature should be more descriptive
SuggestedRemedy
Change Feature to "TX_TCLK source when the PMA_CONFIG.indication parameter config is SLAVE"
Proposed Response Response Status O

CI 165 SC 165.11.4.3.5 P164 L 23 # 288
Lewis, Jon Dell Technologies
Comment Type T Comment Status X
Value / Comment field is incorrect
SuggestedRemedy
Change Value / Comment to "Set to an integer multiple of 32"
Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 165 SC 165.11.4.3.6 P165 L 6 # 290
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status X
 Status is incorrect
 SuggestedRemedy
 Change Status to "!AN:M"
 Proposed Response Response Status O

Cl 165 SC 165.11.4.3.6 P165 L 28 # 278
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status X
 PLS9 doesn't match the text of 165.4.2.6.
 SuggestedRemedy
 Unclear of the final solution as the text shows the placeholder for <<.cy PHY>>. For now change Value / Comment to "The synchronization state diagram shall be used to synchronize<<.cy PHY>> prior to the MultiGBASE-T1 link training.
 Proposed Response Response Status O

Cl 165 SC 165.11.4.3.6 P165 L 19 # 276
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status X
 10GBASE-T1 is still listed and should be 25GBASE-T1
 SuggestedRemedy
 Change Feature to "25GBASE-T1 mapping of Sn[0] to Tn" and change the Value / Comment to "If Sn[0] = 0 then Tn = +1 +1 ... +1 (repeated 20 times), If Sn[0] = 1 then Tn = -1 -1 ... -1 (repeated 20 times)."
 Proposed Response Response Status O

Cl 165 SC 165.11.4.3.6 P165 L 31 # 243
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

Cl 165 SC 165.11.4.3.6 P165 L 22 # 277
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status X
 5GBASE-T1 and 2.5GBASE-T1 not included in this clause
 SuggestedRemedy
 Remove PLS7 and PLS8. Renumber remaining rows.
 Proposed Response Response Status O

Cl 165 SC 165.11.4.3.6 P165 L 36 # 289
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status X
 Number of partial PHY frames doesn't match text
 SuggestedRemedy
 Remove " x S" from the Feature description
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

CI 165 SC 165.11.4.3.6 P165 L44 # 279
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status X
 send_s_timer has incorrect expiration
 SuggestedRemedy
 Change Value / Comment to "Expires 1.25 us +- 0.025 us after being started"
 Proposed Response Response Status O

CI 165 SC 165.11.4.3.6 P165 L46 # 280
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status X
 sigdet_wait_timer has incorrect expiration
 SuggestedRemedy
 Change Value / Comment to "Expires 5 us +- 0.025 us after being started"
 Proposed Response Response Status O

CI 165 SC 165.11.4.3.6 P165 L48 # 281
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status X
 Silient_wait_timer is missing from the table
 SuggestedRemedy
 Add row as follows: PLS14 | silent_wait_timer | 165.4.2.6.2 | Expires 1.25 us +- 0.025 us after being started." | M | Yes []
 Proposed Response Response Status O

CI 165 SC 165.11.4.3.10 P166 L37 # 282
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status X
 Value / Comment doesn't align with clause text
 SuggestedRemedy
 Change Value / Comment to "Period equal to 50 complete quiet-refresh signal periods, equivalent to TBD <!font color RED> ms"
 Proposed Response Response Status O

CI 165 SC 165.11.4.4 P167 L1 # 145
 Hajduczenia, Marek Charter
 Comment Type E Comment Status X
 Per my homework assignment, PICS in 165.11.4.4 were reviewed against D1.2 and changes are proposed
 SuggestedRemedy
 Make the following changes to individual PICS items:
 - change Feature in PICS item TM3, by replacing "The test modes shall only change the data symbols" to "The test modes only change the data symbols", there is no need to repeat SHALL statement the PICS covers within the text of the PICS
 - insert a PICS item TM10: | TM10 | Test Mode 7 | 165.5.1 | Described in 165.5.1 | M | Yes [] | - note that it is the only test mode described today that has no mandatory requirements. This might need to be looked at separately.
 - change Subclause in TES1 and TES2 from 165.5.6 to 165.5.3
 - remove item TES6 and TES7 and renumber subsequent PICS accordingly, and change TES5 to read: | TES5 | Transmitter SNDR distortion for 25GBASE-T1 | 165.5.3.2 | Exceed TBD dB | M | Yes [] | + replace statement "The transmitter SNDR distortion, as specified in 120D.3.1.6, shall exceed 38 dB in 10GBASE-T1, 36 dB in 5GBASE-T1, and 35 dB in 2.5G modes" in 165.5.3.2 with "The transmitter SNDR distortion, as specified in 120D.3.1.6, shall exceed TBD dB in 25GBASE-T1 modes"
 - change Value/Comment for TES23 to read "Within the range 14 062.5 MHz ± 50 ppm"
 - add a new section 165.11.4.4 Mated test fixtures with the following PICS items
 --- | TF1 | Insertion loss | 165.5.5.3.1 | See Equation (165–17) and Equation (165–18) | M | Yes [] |
 --- | TF2 | Return loss | 165.5.5.3.2 | See Equation (165–20) | M | Yes [] |
 --- | TF3 | Mode conversion | 165.5.5.3.3 | See Equation (165–21) | M | Yes [] |
 --- | TF4 | Crosstalk | 165.5.5.3.4 | See Equation (165–22) | M | Yes [] |
 Fix capitalization issues as follows
 - page 142, line 11: "The Mode Conversion of the" > "The mode conversion of the"
 - page 142, line 5: "The Return loss" > "The return loss"
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

Cl 165 SC 165.11.4.5 P169 L1 # 149

Hajduczenia, Marek

Charter

Comment Type E Comment Status X

Per my homework assignment, PICS in 165.11.4.5 were reviewed against D1.2 and changes are proposed

SuggestedRemedy

Make the following changes to individual PICS items:

- Change LSC2 to read: | LSC2 | Return loss | 165.7.1.3.1 | See Equation (165-24) | M | Yes[] |

- Change LSC3 to read: | LSC3 | Residual Echo Metric | 165.7.1.3.3 | See Equation (165-35) | M | Yes[] |

- Change LSC4 to read: | LSC4 | Echo Tail Metric | 165.7.1.3.4 | See Equation (165-36) | M | Yes[] |

- Change Value/Comment in LSC6 to read: "Not to exceed 94 ns at all frequencies between 2 MHz and 9000 MHz"

Proposed Response Response Status O

Cl 165 SC 165.11.4.6 P169 L22 # 148

Hajduczenia, Marek

Charter

Comment Type E Comment Status X

Per my homework assignment, PICS in 165.11.4.6 were reviewed against D1.2 and changes are proposed

SuggestedRemedy

In PICS MDI1, change "shall be met" to "are met", there is no need to repeat SHALL statement the PICS covers within the text of the PICS

Proposed Response Response Status O

Cl 165 SC 165.11.4.7 P169 L37 # 147

Hajduczenia, Marek

Charter

Comment Type E Comment Status X

Per my homework assignment, PICS in 165.11.4.7 were reviewed against D1.2 and confirmed to be correct.

SuggestedRemedy

No change to the draft needed at this time. Feel free to reject this comment, it is submitted for public record only.

Proposed Response Response Status O

Cl 165 SC Fig 165-13 P96 L20 # 256

Jonsson, Ragnar

Marvell

Comment Type TR Comment Status X

EEE LPI signaling needs to be updated

SuggestedRemedy

Updates on slide 10 of jonsson_etal_3cy_01a_06_07_22

Proposed Response Response Status O

Cl 165 SC Fig 165-14 P96 L39 # 257

Jonsson, Ragnar

Marvell

Comment Type TR Comment Status X

EEE LPI signaling needs to be updated

SuggestedRemedy

Updates on slide 10 of jonsson_etal_3cy_01a_06_07_22

Proposed Response Response Status O

Cl 165 SC Fig 165-20 P110 L20 # 263

Jonsson, Ragnar

Marvell

Comment Type TR Comment Status X

EEE LPI signaling needs to be updated

SuggestedRemedy

Figure on slide 7 of jonsson_etal_3cy_01a_06_07_22

Proposed Response Response Status O

Cl 165 SC Table 165-3 P92 L8 # 255

Jonsson, Ragnar

Marvell

Comment Type TR Comment Status X

EEE LPI signaling needs to be updated

SuggestedRemedy

Updates on slide 6 of jonsson_3cy_01_06_14_22

Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.2 10G+ Auto Task Force 3rd Task Force review comments

CI 165 SC Table 165-4 P97 L9 # 259
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status X
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Updates on slide 8 of jonsson_etal_3cy_01a_06_07_22
 Proposed Response Response Status O

CI 165 SC Table 165-5 P97 L45 # 260
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status X
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Updates on slide 9 of jonsson_etal_3cy_01a_06_07_22
 Proposed Response Response Status O

CI 165 SC Table 165-6 P98 L4 # 262
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status X
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Updates on slide 9 of jonsson_etal_3cy_01a_06_07_22
 Proposed Response Response Status O

CI 165A SC 165A.3 P175 L9 # 194
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
 SuggestedRemedy
 Delete: (or one lane of a 50GBASE-T2 or 100GBASE-T4 PHY)
 Proposed Response Response Status O

CI 165A SC 165A.5 P175 L47 # 244
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 MultiGBASE-T1' should be 25GBASE-T1 (please note that page 171, annex 149B was skipped ON PURPOSE)
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Proposed Response Response Status O

CI 165A SC 165A.5 P175 L51 # 275
 Kadry, Haysam Ford Motor Company
 Comment Type T Comment Status X
 provdie crosstalk name and equation reference
 SuggestedRemedy
 TBD is (power sum alien near-end) specified in Equation (165-38).
 Proposed Response Response Status O

CI 165A SC 165A.5 P176 L8 # 274
 Kadry, Haysam Ford Motor Company
 Comment Type T Comment Status X
 Fill in table
 SuggestedRemedy

CT	pF	-	0.1	-	
Lp	uH	-	6.8	-	
Cp	pF	-	0.24	-	
CESD	pF	-	0.4	-	
CAC	nF	-	22	-	

 Proposed Response Response Status O