

Approved Responses

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** **A** *bucket*
 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
Response **Response Status** **C**
 ACCEPT.

CI FM **SC FM** **P1** **L29** # **152**
 Carlson, Steve HSD Bosch Ethernovia
Comment Type **E** **Comment Status** **A** *bucket*
 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.
Response **Response Status** **C**
 ACCEPT IN PRINCIPLE.

Minor editorial changes (spaces, commas)

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.

CI FM **SC FM** **P2** **L3** # **153**
 Carlson, Steve HSD Bosch Ethernovia
Comment Type **E** **Comment Status** **A** *bucket*
 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
Response **Response Status** **C**
 ACCEPT IN PRINCIPLE.

Minot editorial changes (missing ".")

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.

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

Removed MASTER/SLAVE from keywords

25GBASE-T1; Automotive Ethernet; IEEE 802.3cy™; Medium Dependent Interface; Physical Coding Sublayer; Physical Layer; Physical Medium Attachment.

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Cl **FM** SC **FM** P**12** L # **155**
 Carlson, Steve HSD Bosch Ethernovia
 Comment Type **E** Comment Status **A** bucket

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.

Response Response Status **C**
 ACCEPT.

Cl **00** SC **0** P L # **199**
 Wienckowski, Natalie General Motors
 Comment Type **T** Comment Status **A** bucket, .3cy PHY

SuggestedRemedy

Change: <<.3cy PHY>>
 To: 25GBASE-T1

Response Response Status **C**
 ACCEPT.

Cl **00** SC **0** P**0** L**0** # **146**
 Hajduczenia, Marek Charter
 Comment Type **E** Comment Status **A**

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.

Response Response Status **C**
 ACCEPT IN PRINCIPLE.

Changes per comment - use reference back to specific subclauses in Clause 149 where the links are broken within Clause 165.

Cl **1** SC **1.3** P**24** L # **156**
 Carlson, Steve HSD Bosch Ethernovia
 Comment Type **T** Comment Status **A** bucket

P802.3cy has made no additions to C 1.3

SuggestedRemedy

Delete C 1.3 from the draft

Response Response Status **C**
 ACCEPT.

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CI 1 SC 1.5 P25 L # 157
 Carlson, Steve HSD Bosch Ethernovia
 Comment Type T Comment Status A bucket
 P802.3cy has made no additions to C 1.5
 SuggestedRemedy
 Delete C 1.5 from the draft
 Response Response Status C
 ACCEPT.

CI 30 SC 30.3.2.1.2 P23 L17 # 162
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 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
 Response Response Status C
 ACCEPT.

CI 30 SC 30.3.2.1.3 P23 L34 # 163
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 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
 Response Response Status C
 ACCEPT.

CI 30 SC 30.5.1.1.2 P24 L3 # 164
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 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
 Response Response Status C
 ACCEPT.

CI 30 SC 30.6.1.1.5 P24 L27 # 165
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 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
 Response Response Status C
 ACCEPT.

CI 45 SC 45.2.1.7.4 P26 L35 # 182
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
 SuggestedRemedy
 Change contents of PMA/PMD column to: 25GBASE-T1
 Response Response Status C
 ACCEPT.

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CI 45 SC 45.2.1.7.5 P26 L51 # 183
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
 SuggestedRemedy
 Change contents of PMA/PMD column to: 25GBASE-T1
 Response Response Status C
 ACCEPT.

CI 45 SC 45.2.1.16 P27 L11 # 166
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 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.
 Response Response Status C
 ACCEPT.

CI 45 SC 45.2.1.16 P27 L25 # 167
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A 50GBASE-T2/100GBASE-T4
 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.
 Response Response Status C
 ACCEPT.

CI 45 SC 45.2.1.16 P27 L28 # 168
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A 50GBASE-T2/100GBASE-T4
 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:
 Response Response Status C
 ACCEPT.

CI 45 SC 45.2.1.16 P27 L30 # 169
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 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.
 Response Response Status C
 ACCEPT.

CI 45 SC 45.2.1.214 P28 L12 # 170
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 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.
 Response Response Status C
 ACCEPT.

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CI 45 SC 45.2.1.214.2 P28 L41 # 171
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 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.
 Response Response Status C
 ACCEPT.

CI 45 SC 45.2.1.244 P29 L12 # 172
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
 SuggestedRemedy
 Delete: 50GBASE-T2, and 100GBASE-T4,
 Response Response Status C
 ACCEPT.

CI 45 SC 45.2.1.244.1 P29 L26 # 160
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A
 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._
 Response Response Status C
 ACCEPT.

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

CI 45 SC 45.2.3 P31 L28 # 161
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A bucket
 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.
 Response Response Status C
 ACCEPT.

CI 78 SC 78.1 P41 L2 # 184
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A bucket
 missing title
 SuggestedRemedy
 Between 78 and 78.1.2 add: 78.1 Overview
 Response Response Status C
 ACCEPT.

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

CI 78 **SC 78.1.4** **P41** **L18** # **175**
 Wienckowski, Natalie General Motors
Comment Type **T** **Comment Status** **A** **50GBASE-T2/100GBASE-T4**
 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.
Response **Response Status** **C**
 ACCEPT.

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

CI 78 **SC 78.2** **P41** **L45** # **177**
 Wienckowski, Natalie General Motors
Comment Type **T** **Comment Status** **A** **50GBASE-T2/100GBASE-T4**
 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.
Response **Response Status** **C**
 ACCEPT.

CI 78 **SC 78.3** **P42** **L5** # **178**
 Wienckowski, Natalie General Motors
Comment Type **T** **Comment Status** **A** **50GBASE-T2/100GBASE-T4**
 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.
Response **Response Status** **C**
 ACCEPT.

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

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CI 78 **SC 78.5** **P42** **L27** # **180**

Wienckowski, Natalie General Motors

Comment Type **E** **Comment Status** **A** **50GBASE-T2/100GBASE-T4**

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):

Response **Response Status** **C**

ACCEPT.

CI 78 **SC 78.5** **P43** **L8** # **181**

Wienckowski, Natalie General Motors

Comment Type **T** **Comment Status** **A** **50GBASE-T2/100GBASE-T4**

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.

Response **Response Status** **C**

ACCEPT.

CI 78 **SC Table 78-2** **P41** **L42** # **253**

Jonsson, Ragnar Marvell

Comment Type **TR** **Comment Status** **A**

EEE LPI signaling needs to be updated

SuggestedRemedy
Updates on slide 4 of jonsson_3cy_01_06_14_22

Response **Response Status** **C**

ACCEPT.

CI 78 **SC Table 78-3** **P42** **L40** # **254**

Jonsson, Ragnar Marvell

Comment Type **TR** **Comment Status** **A**

EEE LPI signaling needs to be updated

SuggestedRemedy
Updates on slide 5 of jonsson_3cy_01_06_14_22

Response **Response Status** **C**

ACCEPT IN PRINCIPLE.

Updates on slide 5 of jonsson_3cy_01a_06_14_22

CI 80 **SC 80** **P47** **L1** # **185**

Wienckowski, Natalie General Motors

Comment Type **T** **Comment Status** **A** **50GBASE-T2/100GBASE-T4**

Delete the text for 100GBASE-T4.

SuggestedRemedy
Remove Cluase 80 from the draft.

Response **Response Status** **C**

ACCEPT.

CI 98 **SC 98.5.1** **P52** **L8** # **186**

Wienckowski, Natalie General Motors

Comment Type **E** **Comment Status** **A** **50GBASE-T2/100GBASE-T4**

Change the instructions.

SuggestedRemedy
Change the editor's instructions to: Insert a new variable, 25GigT1, at the end of the list as shown below

Response **Response Status** **C**

ACCEPT.

Approved Responses

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

CI 98 **SC 98.5.1** **P52** **L 24** # **187**
 Wienckowski, Natalie General Motors
Comment Type **T** **Comment Status** **A** **50GBASE-T2/100GBASE-T4**
 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.
Response **Response Status** **C**
 ACCEPT.

CI 98B **SC 98B.4** **P170** **L 37** # **192**
 Wienckowski, Natalie General Motors
Comment Type **T** **Comment Status** **A** **50GBASE-T2/100GBASE-T4**
 Delete the text for 50GBASE-T2 and 100GBASE-T4.
SuggestedRemedy
 Delete: —100GBASE-T4
 —50GBASE-T2
Response **Response Status** **C**
 ACCEPT.

CI 98B **SC 98B.3** **P170** **L 22** # **191**
 Wienckowski, Natalie General Motors
Comment Type **T** **Comment Status** **A** **50GBASE-T2/100GBASE-T4**
 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
Response **Response Status** **C**
 ACCEPT.

CI 105 **SC 105.1.1** **P54** **L 12** # **189**
 Wienckowski, Natalie General Motors
Comment Type **E** **Comment Status** **A** **50GBASE-T2/100GBASE-T4**
 fix typo
SuggestedRemedy
 Change 50GBASE-T2 to 25GBASE-T1.
Response **Response Status** **C**
 ACCEPT.

CI 98B **SC 98B.4** **P170** **L 35** # **193**
 Wienckowski, Natalie General Motors
Comment Type **T** **Comment Status** **A** **50GBASE-T2/100GBASE-T4**
 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:
Response **Response Status** **C**
 ACCEPT.

CI 105 **SC 105.1.3** **P55** **L 7** # **197**
 Wienckowski, Natalie General Motors
Comment Type **T** **Comment Status** **A**
 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.
Response **Response Status** **C**
 ACCEPT.

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CI 105 SC 105.1.3 P55 L18 # 198
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A
 Replace the TBD
 SuggestedRemedy
 Change: <<TBD>>
 To: Reed-Solomon encoding and PAM4 modulation over a single balanced pair of conductors
 Response Response Status C
 ACCEPT.

CI 105 SC 105.5 P56 L30 # 200
 Sedarat, Hossein Ethernovia
 Comment Type T Comment Status A
 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.
 Response Response Status C
 ACCEPT.

CI 131 SC 131 P58 L1 # 188
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 Delete the text for 50GBASE-T2.
 SuggestedRemedy
 Remove Cluase 105 from the draft.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove Clause 131 from the draft.

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

CI 165 SC 165.2 P68 L43 # 215
 Zimmerman, George CME Consulting/various
 Comment Type E Comment Status A bucket
 Delete editorial note and accept content of 165.2 (subject to changes in other comments)
 SuggestedRemedy
 see comment
 Response Response Status C
 ACCEPT.

CI 165 SC 165.2.1.2.1 P69 L49 # 213
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 "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
 Response Response Status C
 ACCEPT.

CI 165 SC 165.2.2 P70 L12 # 218
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

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Cl 165 SC 165.2.2.1 P70 L36 # 216
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 a MultiGBASE-T1 link' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.3.2.2.3 P81 L46 # 221
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.2.2.2 P62 L3 # 217
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 a MultiGBASE-T1 link' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.3.2.2.4 P83 L12 # 222
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.3.1 P77 L24 # 219
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.3.2.2.4 P83 L50 # 223
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.3.2.2 P79 L5 # 220
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.3.2.2.9 P85 L1 # 224
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Approved Responses

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Cl 165 SC 165.3.2.2.13 P86 L16 # 225
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

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

Cl 165 SC 165.3.6.2 P98 L14 # 261
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status A
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Text on slide 4 of jonsson_etal_3cy_01a_06_07_22
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Use the following text
 During the quiet period the PCS transmitter shall pass zeros to the PMA via the PMA_UNITDATA.request primitive. The receiver should ignore transmissions during the first 150 ns following the transition to the quiet period and the last 150 ns before the start of the refresh signal or the allowed alert time slot.

Cl 165 SC 165.3.6.3 P98 L19 # 226
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.3.7.2.3 P101 L32 # 204
 Tu, Mike Broadcom
 Comment Type T Comment Status A
 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%."
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.3.7.2.4 P102 L47 # 227
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.3.7.3 P107 L43 # 228
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Approved Responses

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

Cl 165 **SC 165.3.9** **P112** **L4** # **229**
 Zimmerman, George CME Consulting/various
Comment Type **T** *Comment Status* **A** *bucket, .3cy PHY*
 MultiGBASE-T1' should be 25GBASE-T1
SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
Response *Response Status* **C**
 ACCEPT.

Cl 165 **SC 165.3.9** **P112** **L6** # **230**
 Zimmerman, George CME Consulting/various
Comment Type **T** *Comment Status* **A** *bucket, .3cy PHY*
 MultiGBASE-T1' should be 25GBASE-T1
SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
Response *Response Status* **C**
 ACCEPT.

Cl 165 **SC 165.3.9.2** **P112** **L24** # **231**
 Zimmerman, George CME Consulting/various
Comment Type **T** *Comment Status* **A** *bucket, .3cy PHY*
 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
Response *Response Status* **C**
 ACCEPT.

Cl 165 **SC 165.3.9.2.1** **P112** **L26** # **232**
 Zimmerman, George CME Consulting/various
Comment Type **T** *Comment Status* **A** *bucket, .3cy PHY*
 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..."
Response *Response Status* **C**
 ACCEPT.

Cl 165 **SC 165.4.1** **P114** **L50** # **233**
 Zimmerman, George CME Consulting/various
Comment Type **T** *Comment Status* **A** *bucket, .3cy PHY*
 MultiGBASE-T1' should be 25GBASE-T1
SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
Response *Response Status* **C**
 ACCEPT.

Cl 165 **SC 165.4.2.1** **P116** **L7** # **234**
 Zimmerman, George CME Consulting/various
Comment Type **T** *Comment Status* **A** *bucket, .3cy PHY*
 MultiGBASE-T1' should be 25GBASE-T1
SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
Response *Response Status* **C**
 ACCEPT.

Approved Responses

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Cl 165 SC 165.4.2.2 P116 L12 # 245
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A
 "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."
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.4.2.3 P116 L53 # 246
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A
 "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."
 Response Response Status C
 ACCEPT IN PRINCIPLE.

Cl 165 SC 165.4.2.5 P119 L32 # 235
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.4.2.4.10 P121 L5 # 250
 Razavi Majomard, seid alireza Marvell
 Comment Type T Comment Status R
 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
 Response Response Status C
 REJECT.

No consensus to make this change at this time. Offline consensus building is needed.
 Cl 165 SC 165.4.2.4.10 P121 L18 # 251
 Razavi Majomard, seid alireza Marvell
 Comment Type T Comment Status R
 maximum time is 40
 SuggestedRemedy
 maximum time is 20 as described in majomard_tahir_jonsson_3cy_01a_06_07_22.pdf,slide 4
 Response Response Status C
 REJECT.

No consensus to make this change at this time. Offline consensus building is needed.
 Cl 165 SC 165.4.2.5 P121 L39 # 236
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Approved Responses

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

Cl 165 **SC 165.4.2.6** **P122** **L 39** # **237**
 Zimmerman, George CME Consulting/various
Comment Type **T** **Comment Status** **A** *bucket, .3cy PHY*
 MultiGBASE-T1' should be 25GBASE-T1
SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
Response **Response Status** **C**
 ACCEPT.

Cl 165 **SC 165.4.2.6** **P123** **L 20** # **247**
 Wu, Peter Marvell
Comment Type **TR** **Comment Status** **A**
 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
Response **Response Status** **C**
 ACCEPT.

Cl 165 **SC 165.4.2.6** **P123** **L 31** # **248**
 Wu, Peter Marvell
Comment Type **ER** **Comment Status** **A**
 "TBD" is still used as description
SuggestedRemedy
 An integer value that counts the number of frames of SEND_S signal being sent at SLAVE
Response **Response Status** **C**
 ACCEPT.

Cl 165 **SC 165.4.2.7** **P126** **L 7** # **249**
 Graba, Jim Broadcm
Comment Type **TR** **Comment Status** **A**
 Update Refresh Monitor TBD length of time without a Refresh.
SuggestedRemedy
 Change "nominally equal to TBD ms" to "nominally equal to 1.597 ms".
Response **Response Status** **C**
 ACCEPT IN PRINCIPLE.
 Change "nominally equal to TBD ms" to "nominally equal to 1.59744 ms".

Cl 165 **SC 165.4.3.1** **P126** **L 21** # **264**
 Jonsson, Ragnar Marvell
Comment Type **TR** **Comment Status** **A**
 EEE LPI signaling needs to be updated
SuggestedRemedy
 Text on slide 5 of jonsson_etal_3cy_01a_06_07_22
Response **Response Status** **C**
 ACCEPT IN PRINCIPLE.
 Use text on slide 5 of jonsson_etal_3cy_01a_06_07_22 and delete the text of the NOTE

Cl 165 **SC 165.4.4.1** **P128** **L 25** # **252**
 Razavi Majomard, seid alireza Marvell
Comment Type **T** **Comment Status** **A**
 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.
Response **Response Status** **C**
 ACCEPT IN PRINCIPLE.
 Insert a new variable
 timing_lock_OK
 In the TRAINING state, whenever SLAVE operating in loop timing locks the MASTER
 timing reference, it sets timing_lock_OK=1.

Approved Responses

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

Cl 165 SC 165.4.4.2 P128 L 52 # 265
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status A
 Replace TBD with actual value
 SuggestedRemedy
 The TBD value should be 1.59744 ms
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.5.1 P131 L 41 # 205
 Tu, Mike Broadcom
 Comment Type T Comment Status A
 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"
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.5.1 P132 L 8 # 207
 Tu, Mike Broadcom
 Comment Type T Comment Status A
 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 ..."
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.5.2 P134 L 6 # 190
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A 50GBASE-T2/100GBASE-T4
 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
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.5.3.1 P135 L 24 # 208
 Tu, Mike Broadcom
 Comment Type T Comment Status A bucket
 Remove the editorial note
 SuggestedRemedy
 Remove the editorial note
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.5.3.2 P135 L 40 # 209
 Tu, Mike Broadcom
 Comment Type T Comment Status A
 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."
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 1. Remove editorial note from line 34 to 36
 2. Change the last sentence to "... shall exceed 38 dB."

Approved Responses

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CI 165 SC 165.5.3.3 P135 L49 # 210
 Tu, Mike Broadcom
 Comment Type T Comment Status A
 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%"
 Response Response Status C
 ACCEPT.

CI 165 SC 165.5.3.3.1 P136 L16 # 211
 Tu, Mike Broadcom
 Comment Type T Comment Status A
 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%".
 Response Response Status C
 ACCEPT.

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

CI 165 SC 165.5.3.3.2 P136 L43 # 212
 Tu, Mike Broadcom
 Comment Type T Comment Status A
 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".
 Response Response Status C
 ACCEPT.

CI 165 SC 165.5.4.2 P139 L37 # 267
 Kadry, Haysam Ford Motor Company
 Comment Type T Comment Status A
 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
 Response Response Status C
 ACCEPT.

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

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CI 165 SC 165.5.5.3.1 P141 L41 # 269
 Kadry, Haysam Ford Motor Company
 Comment Type T Comment Status A
 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
 Response Response Status C
 ACCEPT.

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

CI 165 SC 165.5.5.3.3 P142 L13 # 271
 Kadry, Haysam Ford Motor Company
 Comment Type T Comment Status A
 Add conversion loss equation
 SuggestedRemedy
 Mode convesion ≥ 30 dB $10 \leq f \leq 9000$, f is in MHz
 Response Response Status C
 ACCEPT.

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

CI 165 SC 165.7.1 P142 L49 # 238
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

CI 165 SC 165.7.1.1 P143 L3 # 239
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Approved Responses

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Cl 165 SC 165.7.1.1 P143 L3 # 150
 Hajduczenia, Marek Charter
 Comment Type T Comment Status A bucket, .3cy PHY
 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
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.7.1.3.2 P144 L49 # 202
 Sedarat, Hossein Ethernovia
 Comment Type T Comment Status A
 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
 Response Response Status C
 ACCEPT.

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

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

Cl 165 SC 165.7.1.4 P147 L17 # 240
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.7.1.6 P148 L52 # 241
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.7.2 P148 L41 # 273
 Kadry, Haysam Ford Motor Company
 Comment Type E Comment Status A bucket
 SuggestedRemedy
 Remove editorial note
 Response Response Status C
 ACCEPT.

Approved Responses

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Cl 165 SC 165.8 P150 L42 # 195
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A bucket
 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.
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.8.2.1 P151 L15 # 196
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status A
 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
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.10 P153 L17 # 201
 Sedarat, Hossein Ethernovia
 Comment Type T Comment Status A
 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

 Response Response Status C
 ACCEPT.

Cl 165 SC 165.11.3 P155 L17 # 242
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.11.4.2.1 P156 L16 # 158
 Carlson, Steve HSD Bosch Ethernovia
 Comment Type T Comment Status A bucket, PICS
 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).
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 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 generates the 90 10-bit parity symbols (900 bits total).

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CI 165 SC 165.11.4.2.8 P L 8 # 159

Carlson, Steve

HSD Bosch Ethernovia

Comment Type T Comment Status A bucket, PICS

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.

Response Response Status C

ACCEPT IN PRINCIPLE.

Change OAM2 Feature to: When the PCS frame is operating in interleaved mode of 2x, 4x, or 8x the first symbol (OAM<0>) is 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.

CI 165 SC 165.11.4.3.2 P162 L 22 # 283

Lewis, Jon

Dell Technologies

Comment Type T Comment Status A bucket, PICS

Value / Comment should bpoint to 165.5.6

SuggestedRemedy

Change Value / Comment to "Comply with 165.5.6"

Response Response Status C

ACCEPT.

CI 165 SC 165.11.4.3.2 P162 L 25 # 285

Lewis, Jon

Dell Technologies

Comment Type T Comment Status A bucket, PICS

Feature should be more descriptive

SuggestedRemedy

Change Feature to "TX_TCLK source when the PMA_CONFIG.indication parameter config is MASTER"

Response Response Status C

ACCEPT.

CI 165 SC 165.11.4.3.2 P162 L 31 # 286

Lewis, Jon

Dell Technologies

Comment Type T Comment Status A bucket, PICS

Feature should be more descriptive

SuggestedRemedy

Change Feature to "TX_TCLK source when the PMA_CONFIG.indication parameter config is SLAVE"

Response Response Status C

ACCEPT.

CI 165 SC 165.11.4.3.3 P163 L 10 # 284

Lewis, Jon

Dell Technologies

Comment Type T Comment Status A bucket, PICS

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."

Response Response Status C

ACCEPT IN PRINCIPLE.

Change Feature to "If the MDIO interface is implemented, then this function contributes to the receive fault bit specified in 45.2.17.5 and 45.2.1.193.7."

CI 165 SC 165.11.4.3.4 P163 L 39 # 287

Lewis, Jon

Dell Technologies

Comment Type T Comment Status A bucket, PICS

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"

Response Response Status C

ACCEPT IN PRINCIPLE.

Change Feature to "Any Message Field value not listed in Table 165-7 or Table 165-8 is not transmitted"

Approved Responses

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

CI 165 SC 165.11.4.3.5 P164 L 23 # 288
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status A bucket, PICS
 Value / Comment field is incorrect
 SuggestedRemedy
 Change Value / Comment to "Set to an integer multiple of 32"
 Response Response Status C
 ACCEPT.

CI 165 SC 165.11.4.3.6 P165 L 6 # 290
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status A bucket, PICS
 Status is incorrect
 SuggestedRemedy
 Change Status to "!AN:M"
 Response Response Status C
 ACCEPT.

CI 165 SC 165.11.4.3.6 P165 L 19 # 276
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status A bucket, PICS
 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)."
 Response Response Status C
 ACCEPT.

CI 165 SC 165.11.4.3.6 P165 L 22 # 277
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status A bucket, PICS
 5GBASE-T1 and 2.5GBASE-T1 not included in this clause
 SuggestedRemedy
 Remove PLS7 and PLS8. Renumber remaining rows.
 Response Response Status C
 ACCEPT.

CI 165 SC 165.11.4.3.6 P165 L 28 # 278
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status A
 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."
 Response Response Status C
 ACCEPT IN PRINCIPLE.

Change in Feature column: "2.5GBASE-T1, 5GBASET1, or 10GBASE-T1 PHYs" to "25GBASE-T1 PHY"

CI 165 SC 165.11.4.3.6 P165 L 31 # 243
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Approved Responses

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

CI 165 SC 165.11.4.3.6 P165 L 36 # 289
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status A bucket, PICS
 Number of partial PHY frames doesn't match text
 SuggestedRemedy
 Remove " x S" from the Feature description
 Response Response Status C
 ACCEPT.

CI 165 SC 165.11.4.3.6 P165 L 44 # 279
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status A bucket, PICS
 send_s_timer has incorrect expiration
 SuggestedRemedy
 Change Value / Comment to "Expires 1.25 us +- 0.025 us after being started"
 Response Response Status C
 ACCEPT.

CI 165 SC 165.11.4.3.6 P165 L 46 # 280
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status A bucket, PICS
 sigdet_wait_timer has incorrect expiration
 SuggestedRemedy
 Change Value / Comment to "Expires 5 us +- 0.025 us after being started"
 Response Response Status C
 ACCEPT.

CI 165 SC 165.11.4.3.6 P165 L 48 # 281
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status A bucket, PICS
 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 []
 Response Response Status C
 ACCEPT.

CI 165 SC 165.11.4.3.10 P166 L 37 # 282
 Lewis, Jon Dell Technologies
 Comment Type T Comment Status A bucket, PICS
 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"
 Response Response Status C
 ACCEPT.

CI 165 SC 165.11.4.4 P167 L 1 # 145
 Hajduczenia, Marek Charter
 Comment Type E Comment Status A bucket, PICS
 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"

Response Response Status C
 ACCEPT.

Approved Responses

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

CI 165 SC 165.11.4.5 P169 L1 # 149

Hajduczenia, Marek

Charter

Comment Type E Comment Status A bucket, PICS

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"

Response Response Status C

ACCEPT.

CI 165 SC 165.11.4.6 P169 L22 # 148

Hajduczenia, Marek

Charter

Comment Type E Comment Status A bucket, PICS

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

Response Response Status C

ACCEPT.

CI 165 SC 165.11.4.7 P169 L37 # 147

Hajduczenia, Marek

Charter

Comment Type E Comment Status R bucket, PICS

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.

Response Response Status C

REJECT.

No changes to the draft needed.

CI 165 SC Fig 165-13 P96 L20 # 256

Jonsson, Ragnar

Marvell

Comment Type TR Comment Status A

EEE LPI signaling needs to be updated

SuggestedRemedy

Updates on slide 10 of jonsson_etal_3cy_01a_06_07_22

Response Response Status C

ACCEPT.

CI 165 SC Fig 165-14 P96 L39 # 257

Jonsson, Ragnar

Marvell

Comment Type TR Comment Status A

EEE LPI signaling needs to be updated

SuggestedRemedy

Updates on slide 10 of jonsson_etal_3cy_01a_06_07_22

Response Response Status C

ACCEPT.

Approved Responses

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

Cl 165 SC Fig 165-20 P110 L20 # 263
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status A
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Figure on slide 7 of jonsson_etal_3cy_01a_06_07_22
 Response Response Status C
 ACCEPT.

Cl 165 SC Table 165-6 P98 L4 # 262
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status A
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Updates on slide 9 of jonsson_etal_3cy_01a_06_07_22
 Response Response Status C
 ACCEPT.

Cl 165 SC Table 165-3 P92 L8 # 255
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status A
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Updates on slide 6 of jonsson_3cy_01_06_14_22
 Response Response Status C
 ACCEPT.

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

Cl 165 SC Table 165-4 P97 L9 # 259
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status A
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Updates on slide 8 of jonsson_etal_3cy_01a_06_07_22
 Response Response Status C
 ACCEPT.

Cl 165A SC 165A.5 P175 L47 # 244
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status A bucket, .3cy PHY
 MultiGBASE-T1' should be 25GBASE-T1 (please note that page 171, annex 149B was skipped ON PURPOSE)
 SuggestedRemedy
 Change MultiGBASE-T1 to 25GBASE-T1
 Response Response Status C
 ACCEPT.

Cl 165 SC Table 165-5 P97 L45 # 260
 Jonsson, Ragnar Marvell
 Comment Type TR Comment Status A
 EEE LPI signaling needs to be updated
 SuggestedRemedy
 Updates on slide 9 of jonsson_etal_3cy_01a_06_07_22
 Response Response Status C
 ACCEPT.

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

CI 165A SC 165A.5 P176 L8 # 274

Kadry, Haysam

Ford Motor Company

Comment Type T

Comment Status A

Fill in table

SuggestedRemedy

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

Response

Response Status C

ACCEPT.