

Approved Responses

IEEE P802.3cy D0.5 10G+ Auto Task Force 2nd Task Force review comments

CI 00 SC 0 P0 L # 34  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status A bucket

SuggestedRemedy

Make all hyperlinks "live".

Response Response Status C  
 ACCEPT.

CI 45 SC 45.2.1.16.b P29 L50 # 31  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A bucket  
 typo

SuggestedRemedy

Change: 50GBASE-T21  
 To: 50GBASE-T2

Response Response Status C  
 ACCEPT.

CI 45 SC 45.2.1.244 P34 L17 # 32  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A  
 Interleaving of 8 was approved

SuggestedRemedy

Change: 1 1: Reserved  
 To: 1 1: L=8, RS-FEC interleaving factor eight, default for 25GBASE-T1, 50GBASE-T2, and 100GBASE-T1, undefined for 2.5GBASE-T1, 5GBASE-T1, and 10GBASE-T1  
 Make the same change on P35L41

Response Response Status C  
 ACCEPT.

CI 45 SC 45.2.1.244.1 P34 L45 # 33  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A

Need to modify the text for L = 8.

SuggestedRemedy

Add Editor's instruction: Change the text in 45.2.1.244.1 as shown below.  
 Note, for this comment, text between - - should be in strikethrough. Text between \_ \_ should be in underline.  
 Change: The values of L=2 and L=4 are not defined for 2.5GBASE-T1 PHYs, -and- the value of L=4 is not defined for 5GBASE-T1 PHYs\_I, and the value of L=8 is not defined for 2.5GBASE-T1 PHYs, 5GBASE-T1 PHYs, and 10GBASE-T1 PHYs\_.  
 Make the same change on P36L20

Response Response Status C  
 ACCEPT.

CI 80 SC 80.1.3 P53 L38 # 35  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A

SuggestedRemedy

Add a 100GBASE-T4 "column" in Figure 80-1 With PCS, FEC, PMA, AN^2.

Response Response Status C  
 ACCEPT IN PRINCIPLE.

Add a 100GBASE-T4 "column" in Figure 80-1 With PCS, FEC, PMA, AN^3.

NOTE 3—OPTIONAL

CI 80 SC 80.1.5 P54 L38 # 36  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status A bucket  
 used a symbol not defined

SuggestedRemedy

Change "\_X\_" to "\_M\_"

Response Response Status C  
 ACCEPT.

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Cl 80 SC 80.2.6 P54 L48 # 40  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A  
 100GBASE-T4 does not use Clause 73 AN.  
 SuggestedRemedy  
 Remove the change made in the first paragraph.  
 Response Response Status C  
 ACCEPT.

Cl 105 SC 105.1.2 P60 L11 # 37  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A bucket  
 SuggestedRemedy  
 add Figue 105-1 and add 25GBASE-T1 to it  
 Response Response Status C  
 ACCEPT.

Cl 105 SC 105.1.3 P61 L22 # 38  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status A bucket  
 used a symbol not defined  
 SuggestedRemedy  
 Change "\_X\_" to "\_M\_"  
 Response Response Status C  
 ACCEPT.

Cl 105 SC 105.3.6 P61 L40 # 39  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A bucket  
 25GBASE-T1 does not use Clause 73 AN.  
 SuggestedRemedy  
 Remove the change made in the first paragraph.  
 Response Response Status C  
 ACCEPT.

Cl 131 SC 131.1.2 P64 L8 # 41  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A bucket  
 SuggestedRemedy  
 add Figue 131-1 and add 50GBASE-T2 to it  
 Response Response Status C  
 ACCEPT.

Cl 131 SC 131.1.2 P64 L28 # 43  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A  
 need to add 50GBASE-T2 to the list  
 SuggestedRemedy  
 Add: \_f) The MDI as specified in Clause 165 for 50GBASE-T2 uses a two-lane data path...  
 also add appropriate editor's instructions.  
 Response Response Status C  
 ACCEPT.

Cl 131 SC 131.1.3 P64 L30 # 44  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A  
 SuggestedRemedy  
 Modify 2nd paragraph to add info on 50GBASE-T2  
 50GBASE-R represents a family of Physical Layer devices using the Physical Coding Sublayer (PCS) for 50 Gb/s operation over multiple PCS lanes (see Clause 133).  
 \_50GBASE-T2 respresents a devide using the two-lane PCS defined in Clause 165.\_  
 Physical Layer devices listed in Table 131-1 are defined for operation at 50 Gb/s.  
 Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 Import second paragraph from 131.1.3 from 802.3dc and implement changes per comment.  
 50GBASE-R represents a family of Physical Layer devices using the Physical Coding Sublayer (PCS) for 50 Gb/s operation over multiple PCS lanes (see Clause 133).  
 \_50GBASE-T2 represents a device using the two-lane PCS defined in Clause 165.\_  
 Physical Layer devices listed in Table 131-1 are defined for operation at 50 Gb/s.  
 Add editorial note to call attention to the "two-lane PCS" language.

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Cl 131 SC 131.1.3 P64 L 30 # 45  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A

SuggestedRemedy

Add a row at the bottom of Table 131-1 with 50GBASE-T2:  
 50GBASE-T2 | 50 Gb/s PHY using 50GBASE-T2 encoding over two-pair of shielded  
 balanced copper cable, with reach up to at least 11 m (see Clause 165).

Response Response Status C

ACCEPT IN PRINCIPLE.

Import Table 131-1 from 802.3dc and implement changes per comment.

Update existing Table 131-1 to Table 131-2.

Cl 131 SC 131.1.4 P64 L 52 # 42  
 Wienckowski, Natalie General Motors  
 Comment Type E Comment Status A bucket  
 used a symbol not defined

SuggestedRemedy

Change "\_X\_" to "\_M\_"

Response Response Status C

ACCEPT.

Cl 165 SC 165.1.3 P72 L 37 # 46  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters

SuggestedRemedy

See page 4 of tu\_3cy\_01\_03\_08\_2022.pdf

Response Response Status C

ACCEPT.

Cl 165 SC 165.1.3.1 P73 L 30 # 47  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters

SuggestedRemedy

See page 5 of tu\_3cy\_01\_03\_08\_2022.pdf

Response Response Status C

ACCEPT.

Cl 165 SC 165.1.3.1 P73 L 39 # 48  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters

SuggestedRemedy

See page 6 of tu\_3cy\_01\_03\_08\_2022.pdf

Response Response Status C

ACCEPT.

Cl 165 SC 165.3.2.2 P87 L 12 # 49  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters

SuggestedRemedy

See page 7 of tu\_3cy\_01\_03\_08\_2022.pdf

Response Response Status C

ACCEPT.

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Cl 165 SC 165.3.2.2 P87 L18 # 50  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 The baud rate is 1000/14.0625 ps.  
 SuggestedRemedy  
 Change to: "The baud rate is 1000/14.0625 ps."  
 Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 Change to "The symbol period is 1000/14.0625 ps."

Cl 165 SC 165.3.2.2 P87 L38 # 51  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 9 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.2.2 P87 L44 # 52  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 10 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.2.2 P87 L51 # 53  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 11 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.2.2.13 P94 L15 # 77  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters  
 SuggestedRemedy  
 Change from "100 25GMII data transfers ..." to "260 25GMII data transfers ..."  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.2.2.13 P94 L15 # 78  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters  
 SuggestedRemedy  
 Change from "It takes 1800 PMA\_UNITDATA transfers ..." to "It takes 4680 PMA\_UNITDATA transfers ..."  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.2.2.14 P94 L29 # 58  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 16 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

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Cl 165 SC 165.3.2.2.15 P94 L46 # 59  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A FEC related parameters  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 17 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.2.2.17 P96 L18 # 66  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A FEC related parameters  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 24 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.2.2.17 P95 L39 # 62  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A FEC related parameters  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 20 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.2.2.17 P96 L31 # 67  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A FEC related parameters  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 25 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.2.2.17 P96 L1 # 64  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A FEC related parameters  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 22 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.2.3 P100 L24 # 70  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A FEC related parameters  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 28 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.2.2.17 P96 L7 # 65  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A FEC related parameters  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 23 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.2.3 P100 L48 # 76  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 A partial frame is 1170 PAM2 symbols for 802.3cy.  
 SuggestedRemedy  
 Change "...every 450 PAM2 symbols..." to "every 1170 PAM2 symbols..."  
 Response Response Status C  
 ACCEPT.

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Cl 165 SC 165.3.2.3.1 P101 L21 # 71  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A FEC related parameters  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 29 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.5 P103 L27 # 74  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A FEC related parameters  
 Indices in Equation 165-7 should be updated based on the 802.3cy FEC  
 SuggestedRemedy  
 See page 9 of tu\_3cy\_01\_02\_22\_22.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.3.9.4.5 P132 L52 # 72  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A FEC related parameters  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 30 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.4.2.4 P137 L31 # 79  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 The InfoField bit locations need to be updated.  
 SuggestedRemedy  
 Change from "... 16th partial PHY frame (bits 6750 to 6845)." to "...16th partial PHY frame (bits 17550 to 17645)."  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.4.2.4.6 P140 L8 # 75  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 The DataSwPFC24 should be a multiple of 32 in order to align with L=8 FEC superframe boundary.  
 SuggestedRemedy  
 Change the two occurrences of "... multiple of 16" to "... multiple of 32".  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.4.2.4.10 P141 L21 # 80  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Scaling parameter "S" is not defined and it should be removed  
 SuggestedRemedy  
 Change from "... +0/-4 x S..." to "... +0/-4 ..."  
 Response Response Status C  
 ACCEPT.

Cl 165 SC 165.4.2.6.1 P143 L45 # 81  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 New values should be added for variable "force\_phy\_type"  
 SuggestedRemedy  
 Add one more value above "10G-T1" as follows:  
 "25G-T1: If Auto-Negotiation is disabled or not implemented and 25GBASE-T1 is selected."  
 Response Response Status C  
 ACCEPT.

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CI 165 SC 165.5.5.1 P158 L 6 # 27  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A minimum frequency  
 The applicable frequency range is missing.  
 SuggestedRemedy  
 After equation 165-17 add the following:  
 where  
 f is the frequency in MHz:  $n \leq f \leq 9000$   
 Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 After equation 165-17 add the following:  
 where  
 f is the frequency in MHz:  $1 \leq f \leq 9000$

CI 165 SC 165.5.5.3.1 P159 L 35 # 29  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A minimum frequency  
 The applicable frequency range is missing.  
 SuggestedRemedy  
 After equation 165-21 add the following:  
 where  
 f is the frequency in MHz:  $n \leq f \leq 9000$   
 Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 After equation 165-21 add the following:  
 where  
 f is the frequency in MHz:  $1 \leq f \leq 9000$

CI 165 SC 165.5.5.2 P158 L 38 # 28  
 Wienckowski, Natalie General Motors  
 Comment Type T Comment Status A minimum frequency  
 The applicable frequency range is missing.  
 SuggestedRemedy  
 After equation 165-18 add the following:  
 where  
 f is the frequency in MHz:  $n \leq f \leq 9000$   
 Response Response Status C  
 ACCEPT IN PRINCIPLE.  
 After equation 165-18 add the following:  
 where  
 f is the frequency in MHz:  $1 \leq f \leq 9000$

CI 165 SC Equation 165-1 P95 L 47 # 63  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A FEC related parameters  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 21 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.  
 CI 165 SC Figure 165-10 P96 L 37 # 68  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A FEC related parameters  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 26 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

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Cl 165 SC Figure 165-12 P103 L8 # 73  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Interleaving depth L=8 should be included in this figure.  
 SuggestedRemedy  
 Add "L=8 superframe" in Figure 165-12, as shown on page 8 of tu\_3cy\_01\_02\_22\_22.pdf.  
 Response Response Status C  
 ACCEPT.

Cl 165 SC Figure 165-7 P90 L28 # 57  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 15 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC Figure 165-6 P89 L9 # 54  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 12 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC Figure 165-9 P95 L6 # 60  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 18 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC Figure 165-6 P89 L17 # 55  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 13 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC Figure 165-9 P95 L11 # 61  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 19 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC Figure 165-7 P90 L8 # 56  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 Need to update FEC related parameters  
 SuggestedRemedy  
 See page 14 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.

Cl 165 SC Table 165-2 P97 L37 # 69  
 Tu, Mike Broadcom  
 Comment Type T Comment Status A  
 FEC generator polynomial need to be updated  
 SuggestedRemedy  
 See page 27 of tu\_3cy\_01\_03\_08\_2022.pdf  
 Response Response Status C  
 ACCEPT.



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CI 165A SC 165A.2.1 P+ L 29 # 30  
Wienckowski, Natalie General Motors  
Comment Type T Comment Status A minimum frequency  
Change minimum frequency in the ragne  
SuggestedRemedy  
Change 10 to n  
Response Response Status C  
ACCEPT IN PRINCIPLE.  
Change 10 to 1