

Approved Responses

IEEE P802.3cy D1.1 10G+ Auto Task Force 2nd Task Force review comments

Cl 45 SC 45.2.1.242 P31 L1 # 126
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D bucket
 As there are no changes in this subclause it can be removed.
 SuggestedRemedy
 Remove 45.2.1.242 and all subclauses.
 P28L15, change 45.2.1.242 to green as the subsection it references is removed.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1.243 P32 L18 # 127
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D bucket
 As there are no changes in this subclause it can be removed.
 SuggestedRemedy
 Remove 45.2.1.243 and all subclauses.
 P28L16, change 45.2.1.243 to green (and remove the hyperlink) as the subsection it references is removed.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1.245.1 P34 L51 # 125
 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.

Cl 45 SC 45.2.1.247 P36 L35 # 128
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D bucket
 As there are no changes in this subclause it can be removed.
 SuggestedRemedy
 Remove 45.2.1.247 and all subclauses.
 P28L22, change 45.2.1.243 to green (and remove the hyperlink) as the subsection it references is removed.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1.248 P37 L1 # 129
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D bucket
 As there are no changes in this subclause it can be removed.
 SuggestedRemedy
 Remove 45.2.1.248 and all subclauses.
 P28L23, change 45.2.1.243 to green (and remove the hyperlink) as the subsection it references is removed.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1.249 P37 L23 # 130
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D bucket
 As there are no changes in this subclause it can be removed.
 SuggestedRemedy
 Remove 45.2.1.249 and all subclauses.
 P28L24, change 45.2.1.243 to green (and remove the hyperlink) as the subsection it references is removed.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 45 SC 45.2.1.250 P37 L43 # 131
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D bucket
 As there are no changes in this subclause it can be removed.
 SuggestedRemedy
 Remove 45.2.1.250 and all subclauses.
 P28L25, change 45.2.1.243 to green (and remove the hyperlink) as the subsection it references is removed.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.3.83 P39 L1 # 132
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D bucket
 As there are no changes in this subclause it can be removed.
 SuggestedRemedy
 Remove 45.2.3.83 and all subclauses.
 P39L20, change 45.2.3.83 to green as the subsection it references is removed.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.3.84 P39 L21 # 114
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D bucket
 As there are no changes in this subclause it can be removed.
 SuggestedRemedy
 Remove 45.2.3.84 and all subclauses.
 P39L21 change 45.2.3.84 to green (and remove the hyperlink) as the subsection it references is removed.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 165 SC 165.1.3.1 P72 L42 # 134
 Tu, Mike Broadcom
 Comment Type E Comment Status A
 On the lower left corner of Figure 165-2, it should be changed to "25 GIGABIT MEDIA INDEPENDENT INTERFACE".
 SuggestedRemedy
 Change from "25GMII GIGABIT MEDIA INDEPENDENT INTERFACE" to "25 GIGABIT MEDIA INDEPENDENT INTERFACE"
 Response Response Status C
 ACCEPT IN PRINCIPLE.

Change from
 "25GMII GIGABIT MEDIA INDEPENDENT INTERFACE"
 to
 "25 GIGABIT MEDIA INDEPENDENT INTERFACE"

Cl 165 SC 165.1.3.2 P73 L5 # 135
 Tu, Mike Broadcom
 Comment Type T Comment Status A
 The baud rate is 14062.5 Mbd
 SuggestedRemedy
 Change from "14 0625.5 Mbd" to "14 062.5 Mbd"
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.3.5 P101 L17 # 136
 Tu, Mike Broadcom
 Comment Type E Comment Status D bucket
 Add a "space" character between L = 8 and superframe.
 SuggestedRemedy
 Change from "L = 8superframe" to "L = 8 superframe"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 165 SC 165.3.9 P118 L4 # 115

Wienckowski, Natalie General Motors

Comment Type T Comment Status A

As the laning is being done in the RS, the MultiGBASE-T1 OAM defined in Clause 149 is used with a few changes.

SuggestedRemedy

Delete all the content in 165.3.9 and put the following text in 165.3.9:
 The MultiGBASE-T1 PCS level operations, administration, and maintenance (OAM) provides an optional mechanism useful for monitoring link operation such as exchanging PHY link health status and message exchange. When OAM is implemented, behavior shall conform to 143.9, including the state diagrams in Figure 149–24 and Figure 149–25. The OAM frame data is carried in the OAM 10-bit field described in 165.3.2.2.14 for the normal power data mode and 165.3.6.3 for low power mode.

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete all the content in 165.3.9 and put the following text in 165.3.9:
 The MultiGBASE-T1 PCS level operations, administration, and maintenance (OAM) provides an optional mechanism useful for monitoring link operation such as exchanging PHY link health status and message exchange. When OAM is implemented, behavior is defined in 149.3.9, including the state diagrams in Figure 149–24 and Figure 149–25. The OAM frame data is carried in the OAM 10-bit field described in 165.3.2.2.14 for the normal power data mode and 165.3.6.3 for low power mode.

See Wienckowski_3cy_01_05_17_22a.pdf, slide 3 for resulting text

Cl 165 SC 165.3.9.1 P118 L29 # 116

Wienckowski, Natalie General Motors

Comment Type T Comment Status A

As the laning is being done in the RS, the MultiGBASE-T1 OAM defined in Clause 149 is used with a few changes.

SuggestedRemedy

Delete all the content in 165.3.9 and put the following text in 165.3.9.1:
 The definitions for OAM are as defined in 165.3.9.1 for OAM frame, OAM symbol, OAM message, and OAM status.
 OAM field: A 10-bit field in each PHY frame reserved for the OAM symbol as described in 165.3.2.2.14 or in each refresh cycle as described in 165.3.6.3.

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete all the content in 165.3.9 and put the following text in 165.3.9.1:
 The definitions for OAM are as defined in 165.3.9.1 for OAM frame, OAM symbol, OAM message, and OAM status.
 OAM field: A 10-bit field in each PHY frame reserved for the OAM symbol as described in 165.3.2.2.14 or in each refresh cycle as described in 165.3.6.3.

See Wienckowski_3cy_01_05_17_22a.pdf, slide 4 for resulting text

Cl 165 SC 165.3.9.2 P118 L48 # 117

Wienckowski, Natalie General Motors

Comment Type T Comment Status A

As the laning is being done in the RS, the MultiGBASE-T1 OAM defined in Clause 149 is used with a few changes.

SuggestedRemedy

Delete all the content in 165.3.9.2, except 165.3.9.2.1 and put the following text in 165.3.9.2:
 The MultiGBASE-T1 OAM shall function as defined in 149.3.9.2 except the MultiGBASE-T1 OAM frame structure as defined in 165.3.9.2.1.

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete all the content in 165.3.9.2, except 165.3.9.2.1 and put the following text in 165.3.9.2:
 The MultiGBASE-T1 OAM functions are defined in 149.3.9.2 except for the MultiGBASE-T1 OAM frame structure as defined in 165.3.9.2.1.

See Wienckowski_3cy_01_05_17_22a.pdf, slide 5 for resulting text

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Cl 165 SC 165.3.9.2.1 P118 L48 # 118

Wienckowski, Natalie General Motors

Comment Type T Comment Status A

As the laning is being done in the RS, the MultiGBASE-T1 OAM defined in Clause 149 is used with a few changes.

SuggestedRemedy

Delete all the content in 165.3.9.2.1 and put the following text in 165.3.9.2.1:
The MultiGBASE-T1 OAM frame structure shall follow 149.3.9.2.1 with the addition of the rule with 8x interleaving defined here:

8x interleaving -- insert 0 to 7 dummy OAM symbols into the superframe for alignment before continuing.

Response Response Status C

ACCEPT IN PRINCIPLE.

Replace 165.3.9.2.1 as shown in Wienckowski_3cy_01_05_17_22a.pdf, slide 6

Cl 165 SC 165.3.9.2.1 P119 L8 # 138

Tu, Mike Broadcom

Comment Type T Comment Status A

Need to include the case for L=8 interleaving.

SuggestedRemedy

Change this paragraph 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.

Replace 165.3.9.2.1 as shown in Wienckowski_3cy_01_05_17_22.pdf, slide 6

Cl 165 SC 165.3.9.2.1 P119 L27 # 137

Tu, Mike Broadcom

Comment Type T Comment Status A

Insert the case for "8x interleaving".

SuggestedRemedy

Insert a new paragraph "8x interleaving == insert 0 to 7 dummy OAM symbols into the superframe for alignment before continuing."

Response Response Status C

ACCEPT IN PRINCIPLE.

Replace 165.3.9.2.1 as shown in Wienckowski_3cy_01_05_17_22.pdf, slide 6

Cl 165 SC 165.3.9.3 P124 L49 # 119

Wienckowski, Natalie General Motors

Comment Type T Comment Status A

As the laning is being done in the RS, the MultiGBASE-T1 OAM defined in Clause 149 is used with a few changes.

SuggestedRemedy

Delete all the content in 165.3.9.3 and put the following text in 165.3.9.3:
The state diagram variable to OAM register mapping shall be as defined in 149.3.9.3.

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete all the content in 165.3.9.3 and put the following text in 165.3.9.3:
See 149.3.9.3.

See Wienckowski_3cy_01_05_17_22a.pdf, slide 7 for resulting text

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Cl 165 SC 165.3.9.4.3 P126 L10 # 120

Wienckowski, Natalie General Motors

Comment Type T Comment Status A

As the laning is being done in the RS, the MultiGBASE-T1 OAM defined in Clause 149 is used with a few changes.

SuggestedRemedy

Delete all the content in 165.3.9.4.3 and put the following text in 165.3.9.4.3:
The MultiGBASE-T1 OAM variables shall be those defined in 149.3.9.4.3 except those defined below.

Keep rx_boundary and tx_boundary definitions as they currently are in D1.1.

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete all the content in 165.3.9.4.3 and put the following text in 165.3.9.4.3:

See 149.3.9.4.3 except for the variables defined below.

Keep rx_boundary and tx_boundary definitions as they currently are in D1.1.

See Wienckowski_3cy_01_05_17_22a.pdf, slide 8 for resulting text

Cl 165 SC 165.3.9.4.4 P130 L23 # 121

Wienckowski, Natalie General Motors

Comment Type T Comment Status A

As the laning is being done in the RS, the MultiGBASE-T1 OAM defined in Clause 149 is used with a few changes.

SuggestedRemedy

Delete all the content in 165.3.9.4.4 and put the following text in 165.3.9.4.4:
The counters shall be as defined in 149.3.9.4.4.

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete all the content in 165.3.9.4.4 and put the following text in 165.3.9.4.4:

See 149.3.9.4.4.

See Wienckowski_3cy_01_05_17_22a.pdf, slide 9 for resulting text

Cl 165 SC 165.3.9.4.5 P130 L41 # 122

Wienckowski, Natalie General Motors

Comment Type T Comment Status A

As the laning is being done in the RS, the MultiGBASE-T1 OAM defined in Clause 149 is used with a few changes.

SuggestedRemedy

Delete all the content in 165.3.9.4.5 and put the following text in 165.3.9.4.5:
The functions shall be as defined in 149.3.9.4.5.

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete all the content in 165.3.9.4.5 and put the following text in 165.3.9.4.5:
See 149.3.9.4.5.

See Wienckowski_3cy_01_05_17_22a.pdf, slide 10 for resulting text

Cl 165 SC 165.3.9.4.6 P131 L41 # 123

Wienckowski, Natalie General Motors

Comment Type T Comment Status A

As the laning is being done in the RS, the MultiGBASE-T1 OAM defined in Clause 149 is used with a few changes.

SuggestedRemedy

Delete all the content in 165.3.9.4.6 and put the following text in 165.3.9.4.6:
The state diagrams shall be as defined in 149.3.9.4.6.

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete all the content in 165.3.9.4.6 and put the following text in 165.3.9.4.6:
See 149.3.9.4.6.

See Wienckowski_3cy_01_05_17_22a.pdf, slide 11 for resulting text

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Cl 165 SC 165.4.2.4.9 P138 L 52 # 139
 Tu, Mike Broadcom
 Comment Type T Comment Status A
 Copy from Table 149-13.
 SuggestedRemedy
 Copy from Table 149-13.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Replace content in "165.4.2.4.9 PMA MDIO function mapping" to read "See 149.4.2.4.9."

Cl 165 SC 165.4.2.5 P140 L 5 # 142
 Tu, Mike Broadcom
 Comment Type T Comment Status A
 Copy the "Maximum time (ms)" column from Table 149-16, with " / S" removed.
 SuggestedRemedy
 Copy the "Maximum time (ms)" column from Table 149-16, with " / S" removed.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Per comment + change "Startup timing maximums" to "Startup timing maxima"

Cl 165 SC 165.4.2.4.9 P139 L 6 # 140
 Tu, Mike Broadcom
 Comment Type T Comment Status A
 Copy from Table 149-14.
 SuggestedRemedy
 Copy from Table 149-14.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Replace content in "165.4.2.4.9 PMA MDIO function mapping" to read "See 149.4.2.4.9."

Cl 165 SC 165.4.2.7 P144 L 7 # 143
 Brett McClellan Marvell
 Comment Type T Comment Status A
 I realize the EEE text has not been formally accepted yet, however this text on the refresh monitor makes reference to a specific time period and also a variable rate option ("1.536/S ms") which might be missed when making updates to the EEE text. This period should be made TBD for now.
 SuggestedRemedy
 change "1.536/S" to "TBD"
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Delete "(nominally equal to 1.536/S ms)"

Cl 165 SC 165.4.2.4.10 P139 L 38 # 141
 Tu, Mike Broadcom
 Comment Type T Comment Status A
 Copy the "Maximum time (ms)" column from Table 149-15, with " / S" removed.
 SuggestedRemedy
 Copy the "Maximum time (ms)" column from Table 149-15, with " / S" removed.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Per comment + change "Startup timing maximums" to "Startup timing maxima"

Cl 165 SC 165.4.2.7 P146 L 52 # 144
 Brett McClellan Marvell
 Comment Type T Comment Status A
 I realize the EEE text has not been formally accepted yet, however this text on lpi_refresh_rx_timer makes reference to a specific time period and also a variable rate option ("1.536/S ms") which might be missed when making updates to the EEE text. This period should be made TBD for now.
 SuggestedRemedy
 change "1.536/S" to "TBD"
 Response Response Status C
 ACCEPT.

Cl 165 SC 165.8.2.1 P169 L13 # 133

Gardner, Andrew Analog Devices

Comment Type T Comment Status A

MDI RL mask (154-42) requires 20dB of loss between 10MHz and 280S. This requirement may be limiting for PoDL inductors that need to meet a more aggressive high frequency RL requirement.

SuggestedRemedy

Change the first line of the MDI return loss requirement (165-42) to be: $20-20*\log_{10}(50/f)$ dB between $5 \leq f < 50$ where f is in MHz. Change the second line of the MDI return loss requirement (165-42) to be: 20dB between $50 \leq f < 280S$ where f is in MHz. This change would allow the use of PoDL inductors with $OCL > 1\mu H$.

Response Response Status C

ACCEPT IN PRINCIPLE.

Changes per comment + update Figure 165-50

Cl 165B SC 165B P193 L1 # 124

Wienckowski, Natalie General Motors

Comment Type T Comment Status A

As the laning is being done in the RS, the MultiGBASE-T1 OAM defined in Clause 149 is used with a few changes.

SuggestedRemedy

Delete Annex 165B as this is not needed as we are now referring to Clause 149 which refers to Annex 149B.

Response Response Status C

ACCEPT IN PRINCIPLE.

Change per comment + roll in Annex 149B, and strike the following text in 149B.1: " Clause 149"