

Comments Received

IEEE P802.3cy D1.3 10G+ Auto Task Force 4th Task Force review comments

CI FM **SC FM** **P8** **L13** # **309**
 Wienckowski, Natalie General Motors
Comment Type **E** *Comment Status* **X**
 missing "Task"
SuggestedRemedy
 Change: Electrical Auto Force Chair
 To: Electrical Auto Task Force Chair
Proposed Response *Response Status* **O**

CI FM **SC FM** **P12** **L35** # **313**
 Wienckowski, Natalie General Motors
Comment Type **E** *Comment Status* **X**
 update amendment order
SuggestedRemedy
 Change Amendment 7 to Amendment 8 for cw and reorder list
Proposed Response *Response Status* **O**

CI FM **SC FM** **P8** **L14** # **308**
 Wienckowski, Natalie General Motors
Comment Type **E** *Comment Status* **X**
 Add TF Vice Chair
SuggestedRemedy
 Add: Natalie Wienckowski, IEEE P802.3cy 10G+ Electrical Auto Task Force Vice Chair
Proposed Response *Response Status* **O**

CI FM **SC FM** **P12** **L41** # **314**
 Wienckowski, Natalie General Motors
Comment Type **E** *Comment Status* **X**

SuggestedRemedy
 Change Amendment 8 to Amendment 7 for cz and reorder list
Proposed Response *Response Status* **O**

CI FM **SC FM** **P10** **L3** # **303**
 Wienckowski, Natalie General Motors
Comment Type **E** *Comment Status* **X**
 Change title in box to new title
SuggestedRemedy
 Change: Physical Layer Specifications and Management Parameters for greater than 10 Gb/s Electrical Automotive Ethernet.
 To: Physical Layer Specifications and Management Parameters for 25 Gb/s Electrical Automotive Ethernet
Proposed Response *Response Status* **O**

CI FM **SC FM** **P12** **L45** # **315**
 Wienckowski, Natalie General Motors
Comment Type **E** *Comment Status* **X**

SuggestedRemedy
 Delete 802.3da from list
Proposed Response *Response Status* **O**

CI FM **SC FM** **P12** **L51** # **316**
 Wienckowski, Natalie General Motors
Comment Type **E** *Comment Status* **X**

SuggestedRemedy
 Change Amendment 10 to Amendment 9 for cy and reorder list
Proposed Response *Response Status* **O**

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IEEE P802.3cy D1.3 10G+ Auto Task Force 4th Task Force review comments

Cl 1 SC 1.4 P23 L5 # 319
 Tu, Mike Broadcom
 Comment Type T Comment Status X
 100GBASE-T4 has been removed from Clause 165
 SuggestedRemedy
 Delete line 5 to 9
 Proposed Response Response Status O

Cl 1 SC 1.4 P23 L15 # 320
 Tu, Mike Broadcom
 Comment Type T Comment Status X
 50GBASE-T2 has been removed from Clause 165
 SuggestedRemedy
 Delete line 15 to 19
 Proposed Response Response Status O

Cl 1 SC 1.4.41a P23 L6 # 292
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Delete the text for 100GBASE-T4.
 SuggestedRemedy
 Delete 1.4.41a and the Editor's instructions before it.
 Proposed Response Response Status O

Cl 1 SC 1.4.175a P23 L16 # 291
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Delete the text for 50GBASE-T2.
 SuggestedRemedy
 Delete 1.4.175a and the Editor's instructions before it.
 Proposed Response Response Status O

Cl 16 SC 16.5.3 P117 L25 # 321
 Tu, Mike Broadcom
 Comment Type E Comment Status X
 Combine paragraphs at line 25-28 and at line 43-47.
 SuggestedRemedy
 1. Replace line 25-28 by the following two paragraphs:
 The PMA provides the Transmit function specified in 165.4.2.2 in accordance with the electrical specifications of this clause. The electrical input shall be AC-coupled, i.e., it shall present a high DC common-mode impedance at the MDI. There may be various methods for AC-coupling in actual implementations.
 Unless specified otherwise, all transmitter measurements and tests defined in 165.5.3 are made at TP2 utilizing a test fixture that meets the specifications 165.5.5.
 2. Delete line 43-47
 Proposed Response Response Status O

Cl 45 SC 45.2.3 P30 L1 # 294
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 SuggestedRemedy
 Delete 45.2.3 as this is copied from ch without changes.
 Proposed Response Response Status O

Cl 105 SC 105.2 P43 L25 # 299
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 SuggestedRemedy
 Delete Note regarding table width
 Proposed Response Response Status O

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CI 105 SC 105.6 P44 L45 # 301
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 This subclause is empty
 SuggestedRemedy
 Delete
 Proposed Response Response Status O

CI 105 SC 105.7 P44 L50 # 302
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 Need to add Clause 165 to the list.
 SuggestedRemedy
 Add Editorial Note: Change 105.7 as shown below.
 x means underline "x"
 Add: The supplier of a protocol implementation that is claimed to conform to any part of IEEE Std 802.3, Clause 45, Clause 73, Clause 74, Clause 106 through Clause 112, Clause 114, _Clause 165, _and related annexes demonstrates compliance by completing a protocol implementation conformance statement (PICS) proforma.
 Proposed Response Response Status O

CI 165 SC 165.1.1 P45 L26 # 304
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Since this is a single PHY, we don't need this subclause. This was used in P802.3ch to define the relationship of the 3 PHYs.
 SuggestedRemedy
 Delete Subclause
 Proposed Response Response Status O

CI 165 SC 165.1.1 P45 L27 # 327
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 The paragraph under Nomenclature was borrowed from Clause 149 which defines three PHYs - here there is only one. This paragraph can be repurposed to define the relationship of 25GBASE-T1 to the MultiGBASE-T1 PHY set.
 SuggestedRemedy
 Replace paragraph in 165.1.1 (P45 L27 to 31) with "The 25GBASE-T1 PHYs in this clause are members of the MultiGBASE-T1 PHY set, defined in 1.4.407. The PHYs in this set share control registers and characteristics. The nomenclature "MultiGBASE-T1" is used to refer to registers and features common to the PHYs in the set."
 Proposed Response Response Status O

CI 165 SC 165.1.3 P46 L34 # 305
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 SuggestedRemedy
 Change: The 25GBASE-T1 PHYs utilize
 To: The 25GBASE-T1 PHY utilizes
 Proposed Response Response Status O

CI 165 SC 165.1.3 P47 L3 # 293
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 Add reference to Annex K
 SuggestedRemedy
 Between 3rd and 4th paragraph add "NOTE—Annex K defines optional alternative terminology for "master" and "slave".
 Proposed Response Response Status O

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Cl 165 SC 165.1.3 P47 L8 # 324

Zimmerman, George CME Consulting/various

Comment Type E Comment Status X

Nomenclature for 'MultiGBASE-T1' - the 25GBASE-T1 OAM channel is a little different than the 'MultiGBASE-T1' OAM channel, as defined. Nomenclature needs to refer to it specifically.

SuggestedRemedy

- Changes:
P47 L8: change "the MultiGBASE-T1 PCS-based operations" to "the PCS-based operations"
P47 L9: change "The MultiGBASE-T1 OAM" to "This"
P47 L10, 12, 13: Replace "the MultiGBASE-T1 OAM" with "OAM for 25GBASE-T1" (3 instances)
P47 L47: Change "EEE and MultiGBASE-T1 OAM" to "EEE and OAM"

Proposed Response Response Status O

Cl 165 SC 165.1.3.1 P47 L22 # 325

Zimmerman, George CME Consulting/various

Comment Type E Comment Status X

Nomenclature for "MultiGBASE-T1" is used for 25GBASE-T1 specific sublayers incorrectly, for example, it is the 25GBASE-T1 PCS, not the MultiGBASE-T1 PCS... (or other PHY-specific characteristic) Since Clause 165 is 25GBASE-T1, it is clear it is the 25GBASE-T1 PCS (or whatever), and MultiGBASE-T1 may simply be deleted or replaced with 25GBASE-T1 as appropriate for readability.

SuggestedRemedy

- Delete "MultiGBASE-T1" at the following places:
P47 L 22, 37; and P49 L 9,
Replace "MultiGBASE-T1" with "25GBASE-T1" at P49 L 22, 23; P49 L51; P50 L44; and P51 L3

Proposed Response Response Status O

Cl 165 SC 165.3 P59 L18 # 332

Zimmerman, George CME Consulting/various

Comment Type E Comment Status X

Looking through the text of 165.3 we have cleaned out the general 'step-by-step' descriptions of the state diagrams, and it appears the text aligns. No changes to text

SuggestedRemedy

No changes to text - feel free to reject, or use this comment to insert changes needed that someone else sees

Proposed Response Response Status O

Cl 165 SC 165.3.2.2.5 P66 L8 # 328

Zimmerman, George CME Consulting/various

Comment Type T Comment Status X

"The control characters and their mappings to 25GBASE-T1 control codes and 25GMII control codes are specified in Table 165-1. All 25GMII control code..." These control codes are identical to those in Clause 149, and can be considered common to 25GBASE-T1. The text as is makes it look like they are somehow different. They should be included by reference.

SuggestedRemedy

- Change "The control characters and their mappings to 25GBASE-T1 control codes and 25GMII control codes are specified in Table 165-1." to "The control characters and their mappings to MultiGBASE-T1 control codes and control codes at the xMII are common across the MultiGBASE-T family, except for 25GBASE-T the xMII is the 25GMII. These are specified in Table 149-1."
Delete Table 165-1.
Change Cross references at P63 L11 (figure 165-6), P64 L11 (figure 165-7), P67 L2, P75 L28, P75 L29, P84 L32, P84 L33, P85 L18, P85 L20, and P139 L42 from Table 165-1 to (external) Table 149-1

Proposed Response Response Status O

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Cl 165 SC 165.3.2.2.6 P66 L53 # 306
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 Remnant of 50G and 100G.
 SuggestedRemedy
 Change: 25, 50, and 100 Gigabit Ethernet use
 To: 25 Gigabit Ethernet uses
 Proposed Response Response Status O

Cl 165 SC 165.4.2.4.10 P103 L5 # 317
 Razavi Majomard, seid alireza Marvell
 Comment Type T Comment Status X
 maximum time is 40-0.384
 SuggestedRemedy
 maximum time is 30-0.384 as described in
 majomard_tahir_jonsson_3cy_01_06_19_22.pdf, slide 2
 Proposed Response Response Status O

Cl 165 SC 165.3.9.2 P94 L21 # 329
 Zimmerman, George CME Consulting/various
 Comment Type E Comment Status X
 "The 25GBASE-T1 OAM functions are defined in 149.3.9.2 except for..." is incorrect -
 149.3.9.2 defines the MultiGBASE-T1 OAM functions, not the 25GBASE-T1 specific ones.
 These are the same with a few exceptions.
 SuggestedRemedy
 Change from ""The 25GBASE-T1 OAM functions are defined in 149.3.9.2 except for..." to
 "25GBASE-T1 OAM functions are the same as those defined for other MultiGBASE-T1
 PHYs in 149.3.9.2 with the exception that...
 Proposed Response Response Status O

Cl 165 SC 165.4.2.4.10 P103 L18 # 318
 Razavi Majomard, seid alireza Marvell
 Comment Type T Comment Status X
 maximum time is 40
 SuggestedRemedy
 maximum time is 30 as described in majomard_tahir_jonsson_3cy_01_06_19_22.pdf,slide
 2
 Proposed Response Response Status O

Cl 165 SC 165.4 P96 L3 # 295
 Wienckowski, Natalie General Motors
 Comment Type T Comment Status X
 This should have been deleted when most OAM content was referred to 149.
 SuggestedRemedy
 Delete Figure 165-21
 Proposed Response Response Status O

Cl 165 SC 165.4.2.6.1 P105 L9 # 330
 Zimmerman, George CME Consulting/various
 Comment Type T Comment Status X
 10G-T1, 5G-T1, and 2.5G-T1 are not described in this clause and are beyond the scope of
 it. These should not be in our state diagram.
 Additionally, as far as listing the values, either ALL the values for force_phy_type (including
 100-T1, 1000-T1) should be added or only 25G-T1. Better to leave them to their own
 clauses...
 SuggestedRemedy
 Delete variable values for 10G-T1, 5G-T1, and 2.5G-T1 on P105 Lines 9-11.
 On P105 L13, Change "beyond the scope of this clause." to "beyond the scope of this
 clause (For examples of other values see Clause 97 and Clause 149)." (with clause 97 &
 clause 149 external cross references)
 On P107 L38-40 (Figure 165-27), change OR'd condition into SYNC_DISABLE
 "(force_phy_type ≠ 2.5G-T1 *force_phy_type ≠ 5G-T1 *force_phy_type ≠ 10G-T1 *
 force_phy_type ≠ 25G-T1)" so that it reads "force_phy_type ≠ 25G-T1"
 Proposed Response Response Status O

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Cl 165 SC 165.4.3.1 P108 L35 # 333
 Jonsson, Ragnar Marvell
 Comment Type E Comment Status X
 A note was dropped during comment resolution for draft 1.2. This note is probably unnecessary, but a possible text for the note is suggested.
 SuggestedRemedy
 If the note is needed, the suggested text for the note is: NOTE – the receiver can be expected to ignore the first 150 ns following a transition to quiet refresh signaling.
 Proposed Response Response Status O

Cl 165 SC 165.5.3 P117 L30 # 310
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 SuggestedRemedy
 Delete Editor's Note
 Proposed Response Response Status O

Cl 165 SC 165.5.3 P117 L34 # 311
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 SuggestedRemedy
 Delete Editor's Note
 Proposed Response Response Status O

Cl 165 SC 165.5.3 P117 L42 # 312
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 SuggestedRemedy
 Delete Editor's Note
 Proposed Response Response Status O

Cl 165 SC 165.5.4 P120 L45 # 307
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status X
 SuggestedRemedy
 Delete Editorial Note in yellow highlight.
 Proposed Response Response Status O

Cl 165 SC 165.6 P124 L52 # 331
 Zimmerman, George CME Consulting/various
 Comment Type E Comment Status X
 "25GBASE-T1 make extensive use of the management" usage error - should be "makes extensive use"
 SuggestedRemedy
 change "make extensive" to "makes extensive"
 Proposed Response Response Status O

Comments Received

IEEE P802.3cy D1.3 10G+ Auto Task Force 4th Task Force review comments

Cl 165 SC 165.7 P125 L14 # 300

Wienckowski, Natalie General Motors

Comment Type T Comment Status X

Remove 50G and 100G

SuggestedRemedy

Change:25GBASE-T1 are designed to operate over a single shielded balanced pair of conductors that meet the requirements specified in this subclause. The one, two, and four pair of shielded, balanced conductors supports an effective data rate of 25 Gb/s, 50 Gb/s, and 100 Gb/s in each direction simultaneously.

To: 25GBASE-T1 is designed to operate over a single shielded balanced pair of conductors that meet the requirements specified in this subclause. The single pair of shielded, balanced conductors supports an effective data rate of 25 Gb/s in each direction simultaneously.

Proposed Response Response Status O

Cl 165 SC 165.7.1.1 P125 L37 # 296

Wienckowski, Natalie General Motors

Comment Type E Comment Status X

Delete Editor's Note

SuggestedRemedy

Delete Editor's Note

Proposed Response Response Status O

Cl 165 SC 165.11.4.3.6 P148 L27 # 326

Zimmerman, George CME Consulting/various

Comment Type E Comment Status X

"prior to MultiGBASE-T1 link training" - the link training is specific to the PHY

SuggestedRemedy

delete "MultiGBASE-T1" in the description of PICS PLS7

Proposed Response Response Status O

Cl 165 SC 165.11.4.4.2 P151 L11 # 322

Tu, Mike Broadcom

Comment Type T Comment Status X

The jitter measuring interval should be 0.4 ms

SuggestedRemedy

Change TES10 column 4 (Value/Comment) to:

Measured over an interval of 0.4 ms +- 10%

Proposed Response Response Status O

Cl 165 SC 165.11.4.4.2 P151 L26 # 323

Tu, Mike Broadcom

Comment Type T Comment Status X

EOJpk-pk jitter shall be less than 1.6 ps

SuggestedRemedy

Change TES17 column 4 (Value/Comment) to:

Less than 1.6 ps

Proposed Response Response Status O

Cl 165A SC 165A.2 P157 L14 # 297

Wienckowski, Natalie General Motors

Comment Type E Comment Status X

SuggestedRemedy

Delete Editor's Note

Proposed Response Response Status O

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CI 165A SC 165A.4 P158 L40 # 298

Wienckowski, Natalie General Motors

Comment Type E Comment Status X

Suggested Remedy

Delete Editor's Note

Proposed Response Response Status O