

Cl 149 SC 149.4.2.4.5 P L # 168

Razavi, Alireza Aquantia
Comment Type E Comment Status R EZ

SuggestedRemedy

Response Response Status C

REJECT.

empty comment

Cl 00 SC 0 P1 L 18 # 64

Maguire, Valerie The Siemon Company
Comment Type E Comment Status D EZ

Use oxford comma.

SuggestedRemedy

Replace, "2.5 Gb/s, 5 Gb/s and 10 Gb/s" with "2.5 Gb/s, 5 Gb/s, and 10 Gb/s".

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl FM SC P2 L 5 # 40

Marris, Arthur Cadence Design Systems
Comment Type E Comment Status D EZ

"This amendment to IEEE Std 802.3-2018 adds physical layer specifications and management parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s operation on a single balanced pair of conductors suitable for applications." does not read right

SuggestedRemedy

Change to:

"This amendment to IEEE Std 802.3-2018 adds physical layer specifications and management parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s operation on a single balanced pair of conductors suitable for automotive applications."

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 00 SC 0 P10 L 47 # 117

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco
Comment Type E Comment Status D EZ

There are multiple amendments missing from the front matter (802.3cn, 802.3cq, and soon 802.3cm) which are now in SA ballot. 802.3cn is now Amendment four, before 802.3cg, as well.

SuggestedRemedy

Insert missing amendments in correct order in front matter

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl FM SC FM P10 L 48 # 57

Wienckowski, Natalie General Motors
Comment Type E Comment Status D EZ

IEEE Std 802.3cn-20xx - Amendment 4

SuggestedRemedy

Add: IEEE Std 802.3cn™-20xx

Amendment 4—This amendment includes changes to IEEE Std 802.3-2018 and adds 50 Gb/s, 200 Gb/s, and 400 Gb/s Physical Layer specifications and management parameters for operation over single-mode fiber with reaches of at least 40 km.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl FM SC FM P10 L 51 # 58

Wienckowski, Natalie General Motors
Comment Type E Comment Status D EZ

IEEE Std 802.3cg-20xx - Amendment 5

SuggestedRemedy

Add: Amendment 5— after the title for cg and before "This amendment"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl **FM** SC **FM** P11 L4 # 37

Wienckowski, Natalie General Motors

Comment Type **E** Comment Status **D** EZ

Missing 149C in the description of the ammendment.

SuggestedRemedy

Change: adds Clause 149 and Annex 149A and Annex 149B.
To: adds Clause 149 and Annex 149A, Annex 149B, and Annex 149C.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

Cl **FM** SC **FM** P11 L6 # 60

Wienckowski, Natalie General Motors

Comment Type **E** Comment Status **D** EZ

IEEE Std 802.3cm-20xx - Amendment 7

SuggestedRemedy

Add: IEEE Std 802.3cm™-20xx
Amendment 7—This amendment includes changes to IEEE Std 802.3-2018 and adds Clause 150. This amendment adds Physical Layer (PHY) specifications and management parameters for 400 Gb/s operation on four pairs (400GBASE-SR4.2) and eight pairs (400GBASE-SR8) of multimode fiber, over reaches of at least 100 m.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

Cl **FM** SC **FM** P11 L6 # 59

Wienckowski, Natalie General Motors

Comment Type **E** Comment Status **D** EZ

IEEE Std 802.3cq-20xx - Amendment 6

SuggestedRemedy

Add: IEEE Std 802.3cq™-20xx
Amendment 6—This amendment includes editorial and technical corrections, refinements, and clarifications to Clause 33 and related portions of the standard.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

Cl **FM** SC P22 L6 # 41

Marris, Arthur Cadence Design Systems

Comment Type **E** Comment Status **D** EZ

Title is wrong.

SuggestedRemedy

Change title to:
"Draft Standard for Ethernet Amendment:
Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s and 10 Gb/s Automotive Electrical Ethernet"

Also consider changing page headers to something other than "IEEE P802.3ch Multi-Gig Automotive Ethernet PHY Task Force"
perhaps change to: "IEEE P802.3ch Task Force: Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s and 10 Gb/s Automotive Electrical Ethernet"

Proposed Response Response Status **W**

PROPOSED ACCEPT IN PRINCIPLE.

Change title to match the first page adding missing comma: "Draft Standard for Ethernet Amendment:
Physical Layer draftifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Automotive Electrical Ethernet"
Don't change the page header as it is supposed to be the Task Force name.

Cl **44** SC **44.1.3** P28 L50 # 118

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco

Comment Type **T** Comment Status **D** EZ

* AUTO-NEGOTIATION IS OPTIONAL should read 'for 10GBASE-T1' otherwise the asterisk looks like a general comment on auto-negotiation rather than specific to the 10GBASE-T1 stack

SuggestedRemedy

add "FOR 10GBASE-T1" after "AUTO-NEGOTIATION IS OPTIONAL"

Proposed Response Response Status **Z**

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl 44 SC 44.1.4.4 P 30 L 43 # 66

Tu, Mike Broadcom

Comment Type E Comment Status D EZ

I think "gray code" should be "Gray code".

SuggestedRemedy

Change "gray code" to "Gray code"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch 2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Change "gray code" to "Gray-code" as "Gray" is based on a name and this is how it is written in this and other Clauses.

Cl 45 SC 45.2.1 P 32 L 29 # 120

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco

Comment Type E Comment Status D EZ

"Minimum SNR margin" - Minimum should not be capitalized (it isn't the first word or an acronym)

SuggestedRemedy

Change Minimum to minimum.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested change to follow IEEE802.3 style.

Cl 45 SC 45.2.1.7.5 P 33 L 3 # 121

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco

Comment Type E Comment Status D EZ

PHY names should not break across lines.

SuggestedRemedy

Widen first column of Tables 45-9 and 45-10 and use non-breaking hyphens in BASE-T1 instances. (do both - this way no matter what happens in the future, PHY names won't break across lines.)

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.7.4 P 33 L 5 # 2

Anslow, Pete Ciena

Comment Type E Comment Status D EZ

The empty rows in Table 45-9 and Table 45-10 should contain an ellipsis

SuggestedRemedy

Add an ellipsis to the empty rows (two instances per table)

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.18 P 34 L 24 # 3

Anslow, Pete Ciena

Comment Type E Comment Status D EZ

"Add" is not a valid editing instruction.
Table 45-21 is not being changed, so should not be shown.
Notes should use the paragraph tag "Note"

SuggestedRemedy

Change the editing instruction to: "Insert the following note below Table 45-21:"
Delete Table 45-21.
Apply Paragraph tag "Note" to the note.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.193 P 37 L 7 # 97

Graba, Jim Broadcom

Comment Type E Comment Status D EZ

In Table 45-155b, "EEE Ability" should be "EEE ability".

SuggestedRemedy

Change "EEE Ability" to "EEE ability"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested change to follow IEEE802.3 style.

Cl 45 SC 45.2.1.194.1 P 38 L 41 # 69

Tu, Mike Broadcom

Comment Type E Comment Status D EZ

"Reed-Solomon 'receiver' interleave setting" does not sound right. Delete the word 'receiver'.

SuggestedRemedy

Change from: "... the Reed-Solomon receiver interleave setting ..."

To: "... the Reed-Solomon interleave setting ..."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested change to clarify draft.

Cl 45 SC 45.2.1.194 P 39 L 19 # 98

Graba, Jim Broadcom

Comment Type E Comment Status D EZ

In Table 45-155c, change "Slow wake" to "Slow Wake" in order to be consistent.

SuggestedRemedy

Change all occurrences of "Slow wake" and "slow wake" into "Slow Wake" throughout the document.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make changes defined below to make draft consistent.

P39 L19 - change "Slow wake" to "Slow Wake"

P40 L20, P40 L44, & P40 L45 - change "slow wake" to "Slow Wake"

Cl 45 SC 45.2.1.194.4 P 39 L 38 # 5

Anslow, Pete Ciena

Comment Type E Comment Status D EZ

The convention used in Clause 45 is to use "is one" and "is zero" rather than "is 1" and "is 0".

SuggestedRemedy

Change "is 1" to "is one".

Change "is 0" to "is zero".

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.195.1 P40 L41 # 99

Graba, Jim Broadcom

Comment Type T Comment Status D EZ

These bits are requested by the link partner via Infofield. The current text is confusing.

SuggestedRemedy

Change from: "... communicated to the link partner via Infofields ..."
To: "... communicated by the link partner via InfoFields ..."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make requested change to improve clarity.

Cl 45 SC 45.2.1.195.4 P41 L5 # 70

Tu, Mike Broadcom

Comment Type E Comment Status D EZ

Both "local device" and "local PHY" are used in this document. Maybe we should stay with "local PHY"?

SuggestedRemedy

Replace all occurrences of "local device" by "local PHY" throughout the document.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Change "local device" to "local PHY" at the following locations to make the draft consistent:

P41 L5, P41 L12, P46 L8, P55 L45, P55 L49, P153 L40, P153 L43, P153 L44

Cl 45 SC 45.2.1.196.2 P41 L50 # 6

Anslow, Pete Ciena

Comment Type E Comment Status D EZ

The convention used in Clause 45 for the values of pairs of bits is to not include a space between them.

SuggestedRemedy

Change "value of 0 0" to "value of 00"
Change "value of 0 1" to "value of 01"
Change "value of 1 0" to "value of 10"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.196.2 P41 L51 # 146

McClellan, Brett Marvell

Comment Type E Comment Status D EZ

Test mode 2 is described in 149.5.2.3.1

SuggestedRemedy

change "149.5.2.3"
to "149.5.2.3.1"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.5.3.3 P54 L8 # 7

Anslow, Pete Ciena

Comment Type E Comment Status D EZ

The highest inserted item is MM231.

SuggestedRemedy

Change "through MM227" to "through MM231"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 78 SC 78.2 P 58 L 53 # 8

Anslow, Pete Ciena
Comment Type E Comment Status D EZ

The bottom ruling of Table 78-2 should not be "Very Thin"

SuggestedRemedy

remove the override for the bottom ruling of Table 78-2

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 78 SC 78.5 P 59 L 17 # 9

Anslow, Pete Ciena
Comment Type E Comment Status D EZ

"Insert an 10th paragraph" should be "Insert a 10th paragraph"

SuggestedRemedy

Change "an" to "a"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.5.6.4 P 66 L 40 # 23

Wienckowski, Natalie General Motors
Comment Type E Comment Status D EZ

SuggestedRemedy

Make "Table 104-7" a hyperlink.
Also, P67 L4

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.5.6.4 P 67 L 5 # 24

Wienckowski, Natalie General Motors
Comment Type E Comment Status D EZ

SuggestedRemedy

Make "Table 104-7" a hyperlink and remove the "forrest green" color.
Also, P67 L6, P67 L11, P67 L14.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.9 P 68 L 1 # 10

Anslow, Pete Ciena
Comment Type E Comment Status D EZ

The editing instruction at the top of page 68 is redundant as each change has its own editing instruction.
"Modify" is not a valid editing instruction.
The instruction is too vague to be of any use anyway.

SuggestedRemedy

Delete the editing instruction at the top of page 68

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.9.3 P 68 L 8 # 11

Anslow, Pete Ciena
Comment Type E Comment Status D EZ

The two items *PSET and *PDTE are being inserted by IEEE Std 802.3cg-20xx. The redundant editing instruction at the top of the page (proposed to be deleted in another comment) does not change the fact that this editing instruction should include this.

SuggestedRemedy

Change "in the table in 104.9.3 as follows" to "in the table in 104.9.3 (as modified by IEEE Std 802.3cg-20xx) as follows"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.9.4.3 P 69 L 3 # 12

Anslow, Pete Ciena
Comment Type E Comment Status D EZ

"Modify" is not a valid editing instruction.

SuggestedRemedy

Change "Modify item" to "Change item"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 104 SC 104.9.4.3 P 69 L 12 # 25
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D EZ

SuggestedRemedy

Make "Table 104-7" a hyperlink.

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 104 SC 104.9.4.3 P 69 L 17 # 39
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D EZ

SuggestedRemedy

Make "Clause 97" a hyperlink and remove the "forrest green" color.

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

Cl 125 SC 125.1 P 71 L 46 # 128
 Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco
 Comment Type TR Comment Status D EZ

"NOTE 2 - AUTO-NEGOTIATION IS OPTIONAL" Auto-Negotiation is only optional for the BASE-T1 PHYs.

SuggestedRemedy

Add "FOR BASE-T1 PHYs" after "AUTO-NEGOTIATION IS OPTIONAL"

Proposed Response Response Status Z
 PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl 125 SC 125.1.4 P 72 L 34 # 26
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D EZ

SuggestedRemedy

Make "78" a hyperlink.

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Correct the link to improve readability of the draft.

Cl 125 SC 125.3 P 74 L 12 # 47
 Lo, William Axonne Inc.
 Comment Type E Comment Status D EZ

Table fix gap in column 2 numbers

SuggestedRemedy

Remove the gaps in all the numbers in column 2.

Proposed Response Response Status Z
 PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl 149 SC 149.1.3.1 P 77 L 44 # 129
 Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco
 Comment Type E Comment Status D EZ

149.3.2.2.18 is NOT where the interleaving is described. It is where the scrambler is. The interleaver IS in 149.3.2.2.16, where it was in the previous draft...

SuggestedRemedy

Change cross-ref from 149.3.2.2.18 to 149.3.2.2.16

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 149 SC 149.1.3.3 P 78 L 27 # 130

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco
 Comment Type T Comment Status D EZ

"The transition to or from LPI mode shall not cause any MAC frames to be lost or" is a fragment of a sentence and an untestable shall....

SuggestedRemedy

delete sentence fragment, or change it to read: "The transition to or from LPI mode should not cause any MAC frames to be lost or corrupted."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The word "corrupted" was accidentally deleted from the end of the sentence. Add it back per coment #100.

Cl 149 SC 149.1.3.3 P 78 L 27 # 100

Graba, Jim Broadcom
 Comment Type E Comment Status D EZ

The last part of the sentence is missing?

SuggestedRemedy

Based on D2.0, change last part of sentence from: "... to be lost or"
 To: "... to be lost or corrupted."

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149 SC 149.1.3.3 P 78 L 27 # 42

Slavick, Jeff Broadcom
 Comment Type E Comment Status D EZ

Extra or instead of a period.

SuggestedRemedy

Replace the or with a "."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The word "corrupted" was accidentally deleted from the end of the sentence. Add it back per coment #100.

Cl 149 SC 149.1.6 P 80 L 41 # 137

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco
 Comment Type T Comment Status D EZ

IEEE 802.3 state diagrams do not have precedence defined other than parentheses. To avoid parentheses around logical functions of relational operators (>, =, <, etc.) or combinations of AND and OR operations, adopting precedence is recommended. Fortunately, 802.3bt did this work and it is in clause 145.

SuggestedRemedy

Change "The notation used in the state diagrams follows the conventions of 21.5." to "The notation used in the state diagrams follows the conventions of state diagrams as described in 21.5, along with the extensions described in 145.2.5.2.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change as current state transitions in our diagrams assume this precedence.

Cl 149 SC 149.2.1.1.1 P 81 L 24 # 75

Tu, Mike Broadcom
 Comment Type T Comment Status D EZ

PMA_Link.request can be set by either the Auto-Negotiation or the PHY Link Synchronization.

SuggestedRemedy

Change line 24 and 25 to:
 DISABLE Used by the Auto-Negotiation or PHY Link Synchronization function to disable the PHY.
 ENABLE Used by the Auto-Negotiation or PHY Link Synchronization function to enable the PHY.

Proposed Response Response Status Z

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl 149 SC 149.2.1.1.2 P 81 L 30 # 76

Tu, Mike Broadcom
Comment Type T Comment Status D EZ

PMA_Link.request can be set by either the Auto-Negotiation or the PHY Link Synchronization.

SuggestedRemedy

Change start of this sentence from: "Auto-Negotiation generates ..."
To: "Auto-Negotiation or PHY Link Synchronization generates ..."

Proposed Response Response Status Z

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl 149 SC 149.2.1.2 P 81 L 40 # 77

Tu, Mike Broadcom
Comment Type T Comment Status D EZ

PMA_Link.indication also goes to the PHY Link Synchronization.

SuggestedRemedy

Change from: "..., and the Auto-Negotiation functions ..."
To: "..., and the Auto-Negotiation or PHY Link Synchronization function ..."

Proposed Response Response Status Z

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl 149 SC 149.2.1.2.3 P 82 L 8 # 78

Tu, Mike Broadcom
Comment Type T Comment Status D EZ

Add a reference to 149.4.2.6.4 PHY Link Synchronization State Diagram.

SuggestedRemedy

Change from: "The effect of receipt of this primitive is specified in 98.4.1."
To: "The effect of receipt of this primitive is specified in 98.4.1 for Auto-Negotiation, and in 149.4.2.6.4 for PHY Link Synchronization."

Proposed Response Response Status Z

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl 149 SC 149.3.2.2 P 91 L 12 # 131

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco
Comment Type E Comment Status D EZ

"The subsequent functions of the PCS Transmit process" is meaningless, because the preceding text no longer talks about the generation of 65B blocks.

SuggestedRemedy

Change "The subsequent functions of the PCS Transmit process" to "After mapping the XGMII transfers to 64B/65B blocks, the subsequent functions of the PCS Transmit process"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149 SC 149.3.2.2 P 91 L 13 # 79

Tu, Mike Broadcom
Comment Type T Comment Status D EZ

Conceptually the interleaving is done prior to or at the same time with the RS-FEC encoding. Also there is a typo on this line: "RS-FE symbols" should be "RS-FEC symbols".

SuggestedRemedy

Change this sentence from: "... OAM field, then add 340 bits of parity for the RS-FEC, interleave the RS-FE symbols, ..."
To: "... OAM field, then interleave and add 340 bits of parity for the RS-FEC, ..."

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149 SC 149.3.2.2 P 91 L 13 # 148

McClellan, Brett Marvell
Comment Type E Comment Status D EZ

typo

SuggestedRemedy

change 'RS-FE' to 'RS-FEC' in multiple locations

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change on P91 L13 and P91 L 48

Cl 149 SC 149.3.2.2 P91 L 13 # 43

Slavick, Jeff Broadcom

Comment Type E Comment Status D EZ

Missing C

SuggestedRemedy
Change "RS-FE symbols" to "RS-FEC symbols"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149 SC 149.3.2.2 P91 L 13 # 48

Lo, William Axonne Inc.

Comment Type E Comment Status D EZ

Spelling

SuggestedRemedy
RS-FE should be RS_FEC

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149 SC 149.3.2.2 P91 L 13 # 132

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco

Comment Type E Comment Status D EZ

Typo: RS-FE

SuggestedRemedy
Change "RS-FE" to "RS-FEC"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149 SC 149.3.2.2 P91 L 33 # 149

McClellan, Brett Marvell

Comment Type E Comment Status D EZ

incorrect reference. this links to the Link Monitor function.
Instead should point to 149.4.2.4

SuggestedRemedy
change to 149.4.2.5 to 149.4.2.4

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Correct the link to improve readability of the draft.

Cl 149 SC 149.3.2.2 P92 L 2 # 157

McClellan, Brett Marvell

Comment Type T Comment Status D EZ

Per Figure 78-1 and 46.4 it is not the MAC but the RS and LPI Client that controls entry to LPI mode.

SuggestedRemedy
Change 'MAC' to 'RS'

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change to fix an error in the draft.

Cl 149 SC 149.3.2.2 P 92 L 5 # 81

Tu, Mike Broadcom

Comment Type E Comment Status D EZ

The block diagram is "shown" in Figure 149-5.

Suggested Remedy

Change the sentence to: "A block diagram of the PCS Transmit functions is shown in Figure 149-5."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the following change to be consistent with wording used throughout this draft. Change: A block diagram of the PCS Transmit functions is in Figure 149-5. To: A block diagram of the PCS Transmit function is shown in Figure 149-5.

Cl 149 SC 149.3.2.2 P 92 L 12 # 150

McClellan, Brett Marvell

Comment Type E Comment Status D EZ

's_n' should be 'S_n' to match usage in 149.3.4

Suggested Remedy

change 's_n' to 'S_n'

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change to be consistent with the terminology used throughout this document.

Cl 149 SC 149.3.2.2.3 P 93 L 17 # 103

Graba, Jim Broadcom

Comment Type E Comment Status D EZ

To be consistent, "TxB" should be "tx_coded" and "RxB" should be "rx_coded".

Suggested Remedy

Change "The bits of a transmitted or received block are labeled TxB<31:0> and RxB<31:0> where TxB<0> and RxB<0> represent the first transmitted bit."

To "The bits of a transmitted or received block are labeled tx_coded<64:0> and rx_coded<64:0> respectively where tx_coded<0> and rx_coded<0> represent the first transmitted bit."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change so the text matches the Figure.

Cl 149 SC 149.3.2.2.3 P 93 L 22 # 158

McClellan, Brett Marvell

Comment Type T Comment Status D EZ

There's no signals defined as TXD<32> to TXD<63>. Only the XGMII TXD<0> to TXD<31>.

Suggested Remedy

delete TXD<0>, TXD<31>, TXD<32>, and TXD<63> and move the XGMII line with signal labels down to align with the arrows.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make change as requested as the current implementation could cause additional comments in the future.

Cl 149 SC 149.3.2.2.2 P93 L 52 # 13

Anslow, Pete Ciena
Comment Type E Comment Status D EZ

Figures 149-6 and 149-7 now contain two notes each.
When there is more than one note, the IEEE-SA Standards Style Manual includes "Multiple notes in sequence should be numbered "NOTE 1—", "NOTE 2—", etc."
Also, there should be no spaces either side of the em-dash.

SuggestedRemedy

In Figures 149-6 and 149-7:
Change "Note — This" to "NOTE 1—This"
Change "Note — Figure" to "NOTE 2—Figure"

Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 149 SC 149.3.2.2.3 P94 L 3 # 159

McClellan, Brett Marvell
Comment Type T Comment Status D EZ

There's no signals defined as RXD<32> to RXD<63>. Only the XGMII RXD<0> to RXD<31>.

SuggestedRemedy

delete RXD<0>, RXD<31>, RXD<32>, and RXD<63> and move the XGMII line with signal labels down to align with the arrows.

Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make change as requested as the current implementation could cause additional comments in the future.

Cl 149 SC 149.3.2.2.3 P94 L 7 # 116

Edem, Brian Aquantia
Comment Type E Comment Status D EZ

In Figure 149.7 the eight arrows from the "Input to decoder function 65B block" to the XGMII at the top of the drawing should be pointing up towards the XGMII

SuggestedRemedy

Reverse the arrows

Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 149 SC 149.3.2.2.3 P94 L 7 # 151

McClellan, Brett Marvell
Comment Type E Comment Status D EZ

arrows are in wrong direction and should point toward the XGMII

SuggestedRemedy

reverse the arrow directions

Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 149 SC 149.3.2.2.3 P94 L 24 # 152

McClellan, Brett Marvell
Comment Type E Comment Status D EZ

149.3.2.3.2 uses the term 'descrambler' for the receiver. Should probably match it in this figure.

SuggestedRemedy

change 'scrambler' to 'descrambler'

Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change so the Figure matches the text.

Cl 149 SC 149.3.2.2.14 P98 L 28 # 91

Tu, Mike Broadcom

Comment Type T Comment Status D EZ

Figure 149-6 shows the PCS bit ordering, not Figure 149-8.

SuggestedRemedy

Change "Figure 149-8" to "Figure 149-6".

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149 SC 149.3.2.2.14 P98 L 31 # 90

Tu, Mike Broadcom

Comment Type T Comment Status D EZ

The RS-FEC encoder input of 3260 bits consist of tx_group50x65B AND the 10-bit OAM.

SuggestedRemedy

Change line 31 from: "... takes the 3260-bit vector tx_group50x65B, and ..."

To: "... takes the 3260-bit vector tx_group50x65B and the 10-bit OAM_field, and ..."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the following change to fix an error in the draft.

Change line 31 from: "... takes the 3260-bit vector tx_group50x65B, and ..."

To: "... takes the 3260-bit vector, consisting of tx_group50x65B and the 10-bit OAM_field, and ..."

Cl 149 SC 149.3.2.2.17 P100 L 10 # 83

Tu, Mike Broadcom

Comment Type T Comment Status D EZ

The additive scrambler is added after the encoder and interleaver. So this sentence is not quite correct.

SuggestedRemedy

Change from: "tx_RSmessage<3259:0> prior to additive scrambling is formed as follows."
To: "tx_RSmessage<3259:0> prior to the RS-FEC (360,326) encoder is formed as follows:"

Also add indents at line 12 and line 14.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change to fix an error in the draft.

Cl 149 SC 149.3.2.2.17 P100 L 12 # 89

Tu, Mike Broadcom

Comment Type T Comment Status D EZ

The mapping on line 12 and line 14 is inconsistent with Figure 149-6. The OAM symbol is appended after the fifty 65B blocks, and should be the last symbol entering into each RS FEC encoder. But the mapping on line 12 and line 14 will make the OAM symbol the first one to enter the RS FEC encoder.

SuggestedRemedy

Change line 12 from: "tx_RSmessage<3259:10> = tx_group50x65B<3249:0>."
To: "tx_RSmessage<3249:0> = tx_group50x65B<3249:0>."

Change line 14 from: "tx_RSmessage<9:0> = OAM_field<9:0>."
To: "tx_RSmessage<3259:3250> = OAM_field<9:0>."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change to fix an error in the draft.

Cl 149 SC 149.3.2.2.17 P 100 L 48 # 153

McClellan, Brett Marvell
 Comment Type E Comment Status D EZ
 typo

SuggestedRemedy
 change 'an' to 'a'

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change to fix an error in the draft.

Cl 149 SC 149.3.2.2.18 P 101 L 35 # 84

Tu, Mike Broadcom
 Comment Type E Comment Status D EZ
 Apply subscript formatting on the index "n" in Dn[0] and Dn[1].

SuggestedRemedy
 Apply subscript formatting on the index "n" in Dn[0] and Dn[1].

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 149 SC 149.3.2.2.19 P 101 L 53 # 133

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco
 Comment Type E Comment Status D EZ
 Missing comma on parenthetical phrase: "Each pair of bits, {A, B}, where A is the bit arriving first is converted to"

SuggestedRemedy
 change "Each pair of bits, {A, B}, where A is the bit arriving first is converted to" to "Each pair of bits, {A, B}, where A is the bit arriving first, is converted to"

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change to improve readability.

Cl 149 SC 149.3.2.2.20 P 102 L 27 # 45

Slavick, Jeff Broadcom
 Comment Type TR Comment Status D EZ

The precoder_type is suppose to be assigned to two bits from the InfoFields, which contains 96 bits of information. So which 2 bits should be used?

SuggestedRemedy

Change "two bits in the InfoField messages" to "the PrecodeSel field from the InfoField messages (see 149.4.2.4.5)"

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change to increase reader understanding.

Cl 149 SC 149.3.2.2.20 P 102 L 51 # 22

Wienckowski, Natalie General Motors
 Comment Type E Comment Status D EZ
 What is "PAM4 mode"?

SuggestedRemedy

Change: PAM4 mode
 To: PAM4 encoding

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change to increase reader understanding.

CI 149 SC 149.3.2.3 P 104 L 39 # 86

Tu, Mike Broadcom

Comment Type E Comment Status D EZ

Redundant statement?

SuggestedRemedy

Change from: "... separated into a 10-bit OAM field, separated from the 64B/65B blocks, and fifty 64B/65B blocks."

To: "... separated into a 10-bit OAM field and fifty 64B/65B blocks."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change to increase reader understanding.

CI 149 SC 149.3.2.3 P 105 L 15 # 134

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco

Comment Type T Comment Status D EZ

"and subject to the timing requirements of 46.1.7" - there are no timing requirements in 46.1.7. 46.1.7 is the mapping of primitives. Do you mean 46.3.1.5 Transmit direction LPI transition?

SuggestedRemedy

Change 46.1.7 to 46.3.1.5

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 149 SC 149.3.6 P 108 L 16 # 160

McClellan, Brett Marvell

Comment Type T Comment Status D EZ

"The transmit function of the PHY initiates a transition to the LPI transmit mode when it generates 8 RS-FEC frames composed entirely of LPI control characters, as described in 149.3.2.2.22. The transmit function of the link partner signals the transition using the sleep signal"
awkward language and why reference the link partner? This text is about the local device and LPI signaling.

SuggestedRemedy

change to

"The transmit function of the PHY initiates a transition to the LPI transmit mode by generating the sleep signal comprised of 8 RS-FEC frames composed entirely of LPI control characters, as described in 149.3.2.2.22. "

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change to increase reader understanding.

CI 149 SC 149.3.6 P 108 L 31 # 154

McClellan, Brett Marvell

Comment Type E Comment Status D EZ

"offset by the link partner's."
awkward language

SuggestedRemedy

change to "offset between the link partners."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make requested change to improve clarity.

Cl 149 SC 149.3.6 P 109 L 37 # 161

McClellan, Brett

Marvell

Comment Type T Comment Status D EZ

The prior paragraphs talk about the transmitter and signaling, suddenly this paragraph changed topic to receiver behavior.

SuggestedRemedy

Change text to
"The end of LPI mode occurs at the transmission of the alert signal indicating the end of quiet-refresh cycle."
also move this orphaned text prior to figure 149-14

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the requested change to increase reader understanding.
The editor will try to move the text.

Cl 149 SC 149.3.6.1 P 109 L 47 # 163

McClellan, Brett

Marvell

Comment Type T Comment Status D EZ

"For 10GBASE-T1, 5GBASE-T1, and 2.5GBASE-T1 the SLAVE's PFC24 are +0/-4, +0/-2, and +0/-1 partial frames respectively with respect to the MASTER's PFC24."

This sentence contradicts the prior sentence which requires the slave to match the PFC24 of the master.

SuggestedRemedy

delete the sentence

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the change suggested by comment 104 to remove redundant specifications in the draft.

Replace the last two sentences: "For 10GBASE-T1, 5GBASE-T1, and 2.5GBASE-T1 the SLAVE's PFC24 are +0/-4, +0/-2, and +0/-1 partial frames redraftively with redraft to the MASTER's PFC24."

To: "For the requirements on the SLAVE and the MASTER frame alignment, see 149.4.2.4.10."

Cl 149 SC 149.3.6.1 P 109 L 47 # 104

Graba, Jim

Broadcom

Comment Type E Comment Status D EZ

The wording of this sentence is confusing and redundant. A better specification regarding PFC counter alignment can be found in 149.4.2.4.10, page 147 line 26:

"During startup, prior to entering the COUNTDOWN state, the SLAVE shall align its transmit 65B RS-FEC frame to within +0/-4 × S (See Table 149-1 for definition of S.) partial PHY frames of the MASTER as seen at the SLAVE MDI. The SLAVE InfoField partial PHY frame Count shall match the MASTER InfoField partial PHY frame Count for the aligned frame."

SuggestedRemedy

Replace the last two sentences: "For 10GBASE-T1, 5GBASE-T1, and 2.5GBASE-T1 the SLAVE's PFC24 are +0/-4, +0/-2, and +0/-1 partial frames respectively with respect to the MASTER's PFC24."

To: "For the requirements on the SLAVE and the MASTER frame alignment, see 149.4.2.4.10."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the suggested change to eliminate redundant specifications in the draft.

Cl 149 SC 149.3.7.3 P 116 L 50 # 111

Graba, Jim

Broadcom

Comment Type T Comment Status D EZ

The RFER Monitor state monitors the RS-FEC frame error ratio.

SuggestedRemedy

Change from: "... monitors the received signal for high Reed Solomon frame error ratio."
To: "... monitors the received signal for high RS-FEC frame error ratio."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make requested change to improve clarity.

Cl 149 SC 149.3.7.3 P 117 L 1 # 112

Graba, Jim Broadcom

Comment Type E Comment Status D EZ

"65B-RS_FEC" should be "65B RS-FEC".

SuggestedRemedy

Change "65B-RS_FEC" to "65B RS-FEC".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make requested change to fix typo.

Cl 149 SC 149.3.8.1 P 117 L 40 # 113

Graba, Jim Broadcom

Comment Type T Comment Status D EZ

In Figure 149-18, there are no states named "RECEIVE_LPI" or "RECEIVE_WAKE".

SuggestedRemedy

1. Change "RECEIVE_LPI" to "RX_L".
2. Change "RECEIVE_WAKE" to "RX_W".
3. Change "Figure 149-18" to "Figure "149-19".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested changes to fix errors in the draft.

Cl 149 SC 149.3.8.1 P 117 L 45 # 114

Graba, Jim Broadcom

Comment Type T Comment Status D EZ

In Figure 149-16, there are no states named "SEND_LPI" or "SEND_WAKE". In Figure 149-20, there is SEND_WAKE, but no SEND_LPI. The text should refer to the correct states in Figure 149-17.

SuggestedRemedy

1. Change "SEND_LPI" to "TX_L".
2. Change "SEND_WAKE" to "TX_WN".
3. Change "Figure 149-16" to "Figure "149-17".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested changes to fix errors in the draft.

Cl 149 SC 149.3.8.3 P 125 L 3 # 88

Tu, Mike Broadcom

Comment Type T Comment Status D EZ

Although both 3.0.14 and 3.2322.14 are copies of each other, I think it is better to refer to 3.2322.14 here.

SuggestedRemedy

Change "3.0.14" to "3.2322.14".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make change to improve understanding. Other Clauses reference their specific bits instead of the generic bits even though they have the same impact.

Cl 149 SC 149.3.9.1 P 125 L 36 # 138

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco

Comment Type E Comment Status D EZ

"OAM field: The OAM10-bit field" - there is no such phrase as OAM10-bit field... And defining the OAM field as the OAM field isn't useful.

SuggestedRemedy

Change "The OAM10-bit field in each PHY frame" to "A 10-bit field in each PHY frame reserved for the OAM symbol"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested change to clarify draft. In addition, on P125 L21 change "OAM 10-bit field" to "10-bit OAM field".

Cl 149 SC 149.3.9.2.12 P 129 L 17 # 27

Wienckowski, Natalie General Motors

Comment Type E Comment Status D EZ

SuggestedRemedy

Change: 149B To: Annex 149B

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Correct the link to improve readability of the draft.

Cl 149 SC 149.3.9.2.13 P 130 L 6 # 14

Anslow, Pete Ciena

Comment Type E Comment Status D EZ

Figure 149-23 has been changed so that the coefficient "A2 = 1" is adjacent to an arrow that just points to another line. Previously, this was an input to a multiply function. In this version of the figure it is unclear what function is performed with "A2 = 1"

SuggestedRemedy

If the intent is to simply multiply by 1, then reinstate the multiply symbol. If the intent is different from this then clarify what it is.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Remove arrows from all "A_x" and just put the name by the symbol/line as is done in Figure 149-10.

Cl 149 SC 149.4.2.2 P 142 L 29 # 92

Souvignier, Tom Broadcom

Comment Type TR Comment Status D EZ

The PMA Transmit electrical specifications are given in 149.5.2.

SuggestedRemedy

Change "149.1.3" to "149.5.2".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Correct the link to improve readability of the draft.

Cl 149 SC 149.4.2.4 P 143 L 31 # 93

Souvignier, Tom Broadcom
 Comment Type TR Comment Status D EZ

It is not clear what is meant by "each InfoField" since the PFC 24 and CRC16 values will be changing after each PAM2 PHY training frame.

SuggestedRemedy

Change this sentence from: "Each InfoField shall be transmitted at least 256 times ..." To: "InfoField shall be transmitted at least 256 times with each change to octets 7-10 to ensure detection at link partner."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the suggested change to improve clarity.

Cl 149 SC 149.4.2.4 P 143 L 37 # 96

Souvignier, Tom Broadcom
 Comment Type T Comment Status D EZ

Field "MSG24" in Figure 149-27 not defined. Figure 149-27 not needed since it is shown in figures 149-28 and Figure 149-29 for both PMA states.

SuggestedRemedy

Remove Figure 149-27 and change first sentence of paragraph on page 143 line 30 to "The 12-octet InfoField shall include the fields in 149.4.2.4.2 through 149.4.2.4.8, also shown in Figure 149-28 and Figure 149-29."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested change to remove issue which could lead to comments during SA ballot.

Cl 149 SC 149.4.2.4 P 143 L 46 # 95

Souvignier, Tom Broadcom
 Comment Type T Comment Status D EZ

Figure 149-28—InfoField TRAINING format octets 8/9/10 should be labeled "PHY Capability Bits" as indicated in subclause 149.4.2.4.5 and Table 149-12

SuggestedRemedy

Change "UsrCfgCap" to "PHY Capability Bits" in Figure 149-28

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested change to remove issue which could lead to comments during SA ballot.

Cl 149 SC 149.4.2.4.5 P 145 L 45 # 73

Tu, Mike Broadcom
 Comment Type T Comment Status D EZ

Need to define the bit mapping of InterleaverDepth and PrecodeSel.

SuggestedRemedy

Change line 45 from: "... PHY capability bits is Oct10<2:1> = InterleaverDepth, Oct10<4:3> = PrecodeSel, ..." To: "... PHY capability bits is Oct10<2:1> = InterleaverDepth[1:0], Oct10<4:3> = PrecodeSel[1:0], ..."

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149 SC 149.4.2.6.4 P 151 L 25 # 135

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco
 Comment Type E Comment Status D EZ

typo: send_s_sigdet = true

SuggestedRemedy

change send_s_sigdet to send_s_sigdet

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested change to fix typo.

Cl 149 SC 149.4.2.6.4 P 151 L 25 # 15

Wienckowski, Natalie General Motors
 Comment Type E Comment Status D EZ

In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false.

SuggestedRemedy

In Figure 149-32, change the following:

L25 & L31: "send_s_sigdet = false" to "!send_s_sigdet"

L39: "power_on = true" to "power_on"

L40: "mr_main_reset = true" to "mr_main_reset"

L40: "mr_autoneg_enable = true" to "mr_autoneg_enable"

L49: "mr_autoneg_enable = false" to "!mr_autoneg_enable"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the suggested change to match the IEEE802 style. In addition, correct the spelling of send_s_sigdet.

Cl 149 SC 149.4.2.6.4 P 151 L 25 # 115

Edem, Brian Aquantia
 Comment Type E Comment Status D EZ

Figure 149-32, transition from SIGDET_WAIT to SILENT_WAIT the condition is misspelled

SuggestedRemedy

Change send_s_sigdet to send_s_sigdet

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested change to fix typo.

Cl 149 SC 149.4.5 P 155 L 4 # 16

Wienckowski, Natalie General Motors
 Comment Type E Comment Status D EZ

In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false.

SuggestedRemedy

In Figure 149-33, change the following:

L4 & L12: "auto_neg_imp = true" to "auto_neg_imp"

L4 & L12: "mr_autoneg_enable = true" to "mr_autoneg_enable"

L6 & L14: "auto_neg_imp = false" to "!auto_neg_imp"

L6 & L14: "mr_autoneg_enable = false" to "!mr_autoneg_enable"

L45: "hi_rfer = false" to "!hi_rfer"

L46: "hi_rfer = true" to "hi_rfer"

L46: "block_lock = true" to "block_lock"

L47: "block_lock = false" to "!block_lock"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the suggested change to match the IEEE802 style.

Cl 149 SC 149.4.5 P 156 L 2 # 17

Wienckowski, Natalie General Motors

Comment Type E Comment Status D EZ

In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false.

SuggestedRemedy

In Figure 149-34, change the following:

L2: "auto_neg_imp = true" to "auto_neg_imp"

L2: "mr_autoneg_enable = true" to "mr_autoneg_enable"

L4: "auto_neg_imp = false" to "!auto_neg_imp"

L4: "mr_autoneg_enable = false" to "!mr_autoneg_enable"

L12: "pcs_data_mode = true" to "pcs_data_mode"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make the suggested change to match the IEEE802 style.

Cl 149 SC 149.7.1.1 P 164 L 30 # 142

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco

Comment Type E Comment Status D EZ

While Fmax is used for several link segment parameters, it only gets defined for insertion loss. This definition (Equation 149-18) needs to be moved up to 149.7

SuggestedRemedy

Insert new second paragraph in 149.7: "For the three different PHY types, link segment parameters are specified to different upper frequencies, given by the parameter Fmax shown in Equation 149-17".

Insert (new) Equation 149-17, which is the current Equation 149-18: $F_{max} = 4000 \times S$ Followed by "See Table 149-1 for definition of S."

Delete lines 30 through 33, so that 149.7.1.1 after the equation (currently 149-17, now 149-18) reads:

f is the frequency in MHz; $1 \leq f \leq F_{max}$.

The insertion loss is illustrated in Figure 149-42.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested change to clarify draft.

Cl 149 SC 149.7.1.3 P 165 L 31 # 140

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco

Comment Type E Comment Status D EZ

The Return loss section actually is 3 subclauses, one for each PHY type.

SuggestedRemedy

Divide 149.7.1.3 into 149.7.1.3.1 2.5GBASE-T1 link segment return loss, 149.7.1.3.2 5GBASE-T1 link segment return loss, and 149.7.1.3.3 10GBASE-T1 link segment return loss.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested change to help the reader.

Cl 149 SC 149.7.1.3 P 166 L 24 # 62

Ohni, Josef MD Elektronik

Comment Type E Comment Status D EZ

In the equation defined by parts (149–22). The frequency point 480/2N belongs only to the first part. The frequency point 3000 belongs to the second and third part. This ist not consistent.

SuggestedRemedy

Change the second part "480/2N ≤ f ≤ 3000 MHz" to "480/2N ≤ f < 3000"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make change to fix typo.

Cl 149 SC 149.7.1.3 P 167 L 23 # 141

Zimmerman, George CME Consulting/ADI, APL Gp, Aquantia, BMW, Cisco

Comment Type T Comment Status D EZ

While the title for Figure 149-43 says there are 5 curves, the figure only shows 2 curves (this is due to frequency overlaps), but is confusing. Also, 2.5G no longer has the "N" factor, which makes the figure even more confusing.

SuggestedRemedy

Divide Figure 149-43 into 3 figures, one for 2.5G, one for 5G and one for 10G. Alternately, delete the figure.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make suggested change to help the reader.

Cl 149 SC 149.7.1.4 P 167 L 35 # 63

Ohni, Josef MD Elektronik

Comment Type E Comment Status D EZ

In the equation defined by parts (149–24). The frequency point 750 belongs to the first and second part.

SuggestedRemedy

Change the first part "30 ≤ f ≤ 750 MHz" to "30 ≤ f < 750 MHz"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make change to fix typo.

Cl 149 SC 149.10 P 173 L 23 # 49

Lo, William Axonne Inc.

Comment Type E Comment Status D EZ

Table fix gap in column 3 numbers

SuggestedRemedy

Remove the gaps in all the numbers in column 3.

Proposed Response Response Status Z

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Cl 149 SC 149.11.4.1 P 175 L 28 # 28
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D EZ

SuggestedRemedy

Make "Clause 98" in Feature column a hyperlink.

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Correct the link to improve readability of the draft.

Cl 149 SC 149.11.4.2.1 P 176 L 27 # 29
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D EZ

SuggestedRemedy

Change: 149.3.4.2 to 149.3.5.1 (hyperlink in the document)

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 149 SC 149.11.4.3.4 P 184 L 6 # 30
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D EZ

SuggestedRemedy

Make "Table 149-10" in Feature column a hyperlink.

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 149 SC 149.11.4.3.4 P 184 L 7 # 31
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D EZ

SuggestedRemedy

Make "Table 149-11" in Feature column a hyperlink.

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 149 SC 149.11.4.3.6 P 185 L 33 # 32
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D EZ

SuggestedRemedy

Make "Clause 98" in Feature column a hyperlink.

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Correct the link to improve readability of the draft.

Cl 149 SC 149.11.4.3.6 P 185 L 38 # 33
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status D EZ

SuggestedRemedy

Make "Figure 149-32" in Feature column a hyperlink.

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Correct the link to improve readability of the draft.

Cl 149 SC 149.11.4.6 P 189 L 27 # 34

Wienckowski, Natalie General Motors

Comment Type E Comment Status D EZ

SuggestedRemedy

Make "149.5.2" in Feature column a hyperlink.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149 SC 149.11.4.6 P 189 L 28 # 35

Wienckowski, Natalie General Motors

Comment Type E Comment Status D EZ

SuggestedRemedy

Make "149.5.3" in Feature column a hyperlink.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149A SC 149A.5.4 P 197 L 41 # 36

Wienckowski, Natalie General Motors

Comment Type E Comment Status D EZ

SuggestedRemedy

Make "Figure 149A-3" in Feature column a hyperlink.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Correct the link to improve readability of the draft.

Cl 149B SC 149B.4.2.3 P 202 L 8 # 50

Lo, William Axonne Inc.

Comment Type E Comment Status D EZ

Font size of text in boxes and text in arrows are not consistent

SuggestedRemedy

Make font sizes of text consistent

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3ch D2.0 and D2.1 or the unsatisfied negative comments from earlier ballots. Hence it is not within the scope of the recirculation ballot.

Make all text size 8 to be consistent.

Cl 149B SC 149B.4.2.3 P 202 L 15 # 19

Wienckowski, Natalie General Motors

Comment Type E Comment Status D EZ

Different font sizes in Figure 149B-2

SuggestedRemedy

Change all text in figure to be 8.0 pt

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149B SC 149B.4.2.3 P 202 L 15 # 18

Wienckowski, Natalie General Motors

Comment Type E Comment Status D EZ

In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false.

SuggestedRemedy

In Figure 149B-2, change the following:
L15 & L28: "mr_rx_clear_rec=true" to "mr_rx_clear_rec"
L28: "mr_rx_clear_rec=false" to "!mr_rx_clear_rec"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149B SC 149B.4.2.3 P 202 L 38 # 20

Wienckowski, Natalie General Motors

Comment Type E Comment Status D EZ

Different font sizes in Figure 149B-3

SuggestedRemedy

Change all text in figure to be 8.0 pt

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 149B SC 149B.4.2.3 P 202 L 44 # 65

Tu, Mike Broadcom

Comment Type T Comment Status D EZ

The variable "mr_tx_request_rec_clear" is not defined.

SuggestedRemedy

In Figure 149B-3, the transition condition should be changed to: "mr_tx_clear_rec = true".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "mr_tx_request_rec_clear = true" to "mr_tx_clear_rec"

Cl 149B SC 149B.4.2.3 P 202 L 44 # 21

Wienckowski, Natalie General Motors

Comment Type E Comment Status D EZ

In state diagrams, the transitions shouldn't include "=true" or "=false", instead you should have the variable_name for true and !variable_name for false.

SuggestedRemedy

In Figure 149B-3, change the following"

L44: "mr_tx_request_rec_clear = true" to "mr_tx_request_rec_clear"

L50: "mr_rx_rec_cleared = true" to "mr_rx_rec_cleared"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

In Figure 149B-3, change the following"

L44: "mr_tx_request_rec_clear = true" to "mr_tx_clear_rec"

L50: "mr_rx_rec_cleared = true" to "mr_rx_rec_cleared"

Cl Annex SC 149C.2 P 203 L 43 # 54

DiMinico, Christopher MC Communications

Comment Type E Comment Status D EZ

SuggestedRemedy

correct text for space circ...uit

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "circ uit" to "circuit"