

IEEE P802.3bz D3.1 2.5G/5GBASE-T 1st Sponsor recirculation ballot comments

Cl 126 SC 126.3.6.2.2 P 110 L 20 # r01-15  
 Zimmerman, George Aquantia, and CommS  
 Comment Type E Comment Status D Editorial  
 ldpc\_frame\_done definition is unused and not needed now that there is  
 ldpc\_two\_frame\_done  
 SuggestedRemedy  
 Delete definition of ldpc\_frame\_done.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 126 SC 126.5.4.4 P 156 L 36 # r01-13  
 Sedarat, Hossein Aquantia  
 Comment Type T Comment Status D PMA  
 The PSD for injected white noise is specified to be at -127 dBm/Hz for 2.5G.  
 This value is consistent with old ALSNR criterion. With the new ALSNR  
 criterion, this value has to be updated to -125 dBm/Hz. See  
[http://www.ieee802.org/3/bz/public/mar16/Sedarat\\_3bz\\_01\\_0316.pdf](http://www.ieee802.org/3/bz/public/mar16/Sedarat_3bz_01_0316.pdf)  
 for more details  
 SuggestedRemedy  
 Change -127 to -125.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 31B SC 31B.3.7 P 195 L 39 # r01-8  
 Anslow, Peter Ciena Corporation  
 Comment Type E Comment Status D Editorial  
 the set of "max\_overrun" equations shown has been added to by the P802.3by draft.  
 SuggestedRemedy  
 change the editing instruction to include (as modified by IEEE Std 802.3by-201x) and add  
 the 25G max\_overrun equation.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 31B SC 31B.4.6 P 197 L 37 # r01-9  
 Anslow, Peter Ciena Corporation  
 Comment Type E Comment Status D Editorial  
 the PICS entries shown have been modified by the P802.3by draft.  
 SuggestedRemedy  
 Add (as modified by IEEE Std 802.3by-201x) to the editing instruction and show the  
 changes made by the P802.3by draft.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 30 SC 30.3.2.1.2 P 31 L 16 # r01-2  
 Anslow, Peter Ciena Corporation  
 Comment Type E Comment Status D Editorial  
 The draft contains several editor's notes saying that the editing instruction needs to be  
 updated once the "publication order of the various amendments becomes settled".  
 This order is now settled.  
 SuggestedRemedy  
 Update the editing instructions accordingly and remove the Editor's notes.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 30 SC 30.3.2.1.3 P 31 L 27 # r01-1  
 Anslow, Peter Ciena Corporation  
 Comment Type E Comment Status D Editorial  
 "...following new entry..." should be "...following new entries..."  
 SuggestedRemedy  
 Change "...following new entry..." to "...following new entries..."  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

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CI 30 SC 30.6.1.1.5 P 33 L 21 # r01-3  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D Editorial

Rather than leaving the insertion position uncertain, make it explicit so that subsequent amendments know what the resulting order is.  
 Also, there has been an agreement with IEEE staff that "For insert, the only other amendments included in the editing instruction are those that affect the insert point."

SuggestedRemedy

Change the editing instruction to: "Insert the following new entries in "APPROPRIATE SYNTAX" after 1000BASE-T1 (inserted by IEEE Std 802.3bp-201x):"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 45 SC 45.2.1.1.3 P 36 L 27 # r01-4  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D Editorial

In the first sentence of the last paragraph of 45.2.1.1.3, the existing description is in order of increasing binary numbers: 0010, then 0011, then 0100.  
 However, the added description is in the opposite order.

SuggestedRemedy

Change:  
 "when set to 0111 the use of a 5G PMA/PMD is selected; when set to 0110 the use of a 2.5G PMA/PMD is selected" to:  
 "when set to 0110 the use of a 2.5G PMA/PMD is selected; when set to 0111 the use of a 5G PMA/PMD is selected"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 45 SC 45.2.1.6 P 38 L 15 # r01-5  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D Editorial

Comment i-83 stated:  
 "aRO = Read only, LH = Latching high" - Table 45-124 does not contain "LH" designator right now  
 This is not a correct statement. The rows of the table that have been reproduced in the P802.3bz draft do not contain LH, but a row that has not been included in the draft does. Comment i-83 should have been rejected. Footnote a in Table 45-124 is "RO = Read only, LH = Latching high" and should be shown as such. Choosing not to show the part of the table containing the "LH" is not a reason to change the footnote.

SuggestedRemedy

Reinstate the correct footnote in all tables that were changed due to comment i-83.  
 This is at least:  
 Table 45-7 should be "R/W = Read/Write, RO = Read only"  
 Table 45-124 should be "RO = Read only, LH = Latching high"  
 Table 45-208 should be "RO = Read only, SC = Self-clearing, LH = Latching high"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 45 SC 45.5.3 P 57 L # r01-12  
 Kim, Yongbum Broadcom Corporation

Comment Type G Comment Status D PICS

45.5.3 PICS PMA/PMD  
 Shouldn't there be entry in PMA/PMD section that adds 2.5G and 5G?  
 If Yes, then please consider accompanying proposed change

SuggestedRemedy

Item Feature Subclause Value/Comment Status Support  
 2.5G Implementation of 2.5 Gb/s PMA/PMD 45.2.1.4 PMA:O Yes [ ]  
 No [ ]  
 5G Implementation of 5 Gb/s PMA/PMD 45.2.1.4 PMA:O Yes [ ]  
 No [ ]

Proposed Response Response Status W

PROPOSED ACCEPT.

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CI 46 SC 46.1 P 59 L 13 # r01-14  
 Marris, Arthur Cadence Design Syst

Comment Type TR Comment Status X XGMII

For 2.5GBASE-T PHYs the link fault signaling state diagram described in 46.3.4 is only necessary to signal link interruption for fast retrain. Seeing as fast retrain is optional, implementation of the link fault signaling should be optional also.  
 Making link fault signaling optional would allow speeded up SGMII implementations to be used to connect to 2.5GBASE-T PHYs allowing better inter-operability with existing ASIC implementations.

Also the requirement to implement the link fault state machine adds extra complexity to the ASIC attached to the 2.5GBASE-T PHY.

*SuggestedRemedy*

Add an extra sentence to the end of this paragraph so it reads:  
 "The 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Physical Coding Sublayers (PCS) are specified to the XGMII, so if not implemented, a conforming implementation shall behave functionally as if the RS and XGMII were implemented. For 2.5 Gb/s and 5 Gb/s data rates implementation of link fault signaling as described in 46.3.4 is optional."

Bring subclause 46.3.4 into 802.3bz and change the last sentence from:  
 "The RS shall implement the link fault signaling state diagram (see Figure 46-11)."  
 To:  
 "The RS shall implement the link fault signaling state diagram (see Figure 46-11) for data rates of 10 Gb/s and above. For 2.5 Gb/s and 5 Gb/s data rates implementation of the link fault signaling state diagram is optional."

Proposed Response Response Status O

CI 126 SC 126.3.6.2.2 P 93 L 50 # r01-16  
 Zimmerman, George Aquantia, and CommS

Comment Type T Comment Status D PCS

Figure 126-7 note is incorrect: "Note -- Conversion from 4DPAM-16 symbols occurs in the LDPC decoding process. Additionally, bits 1724 through 1820 were replaced with zeros in rx\_4D-PAM16<107> through rx\_4D-PAM16<113> during the LDPC encoding process."  
 Prior to the encoding process, 97 zeros are appended to the aux bit and block of 1625 bits to get 1723 bits. The encoder adds 325 bits.  
 rx\_4D-PAM16 is symbol based and doesn't have bits.

*SuggestedRemedy*

Replace note  
 ("Note -- Conversion from 4DPAM-16 symbols occurs in the LDPC decoding process. Additionally, bits 1724 through 1820 were replaced with zeros in rx\_4D-PAM16<107> through rx\_4D-PAM16<113> during the LDPC encoding process.")  
 with:  
 ""Note - Conversion from 4DPAM-16 symbols to bits occurs in the LDPC decoder."

Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI 126 SC 126.3.2.2.5 P 93 L 9 # r01-10  
 Yu, Ting-Fa

Comment Type E Comment Status D Editorial

This is for PCS Receive bit ordering. It should be rx\_coded instead of tx\_coded

*SuggestedRemedy*

change tx\_coded to rx\_coded

Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI 126 SC 126.3.2.2.6 P 95 L 35 # r01-6  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D Editorial

The heading of Table 126-1 should have a table continuation variable at the end.

*SuggestedRemedy*

Place the cursor at the end of table title on first page. Then click on the Variables Tab and insert "Table Continuation" variable. This will add the (continued) on subsequent pages.

Proposed Response Response Status W  
 PROPOSED ACCEPT.

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Cl 126 SC 126.3.2.2.16 P 98 L 41 # r01-11

Yu, Ting-Fa

Comment Type E Comment Status D Editorial

"LPDC" is typing error.

SuggestedRemedy

change "LPDC" to "LDPC"

Proposed Response Response Status W

PROPOSED ACCEPT.

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Cl 126 SC 126.3.2.2.18 P 99 L 23 # r01-7

Anslow, Peter

Ciena Corporation

Comment Type E Comment Status D Editorial

IEEE uses an en-dash (Ctrl-q Shft-p) for a minus sign.

SuggestedRemedy

Replace all of the hyphens in Table 126-2 (and anywhere else that they are representing minus) with en-dashes.

Proposed Response Response Status W

PROPOSED ACCEPT.