Comment Type ER Comment Status D

The cluase deals with common mode output return loss, but references differential output retun loss in line 41, and the titel of figure 128-5 on page 110.

SuggestedRemedy

On page 109 line 41 - change 'differential mode' to 'common mode'.

Page 110 line 23 - change 'differenital mode' to 'common mode' in the figure title.

Proposed Response Status W

Cl 128 SC 128.2 P99 L46 # 114

Bains, Amrik Cisco Systems

Comment Type ER Comment Status D

2.5GBASE-X uses 8B/10B 10 bit interface between PMA/PMD and not

"The PMD Service Interface supports the exchange of encoded and scrambled 64B/66B blocks between the

PMA and PMD entities."

PROPOSED ACCEPT.

SuggestedRemedy

The PMD Service Interface supports the exchange of encoded 8B/10B blocks between the PMA and PMD entities.

Proposed Response Status W

PROPOSED ACCEPT.

Cl 00 SC P101 L 42 # 115

Bains, Amrik Cisco Systems

Comment Type ER Comment Status D

1000BASE-KX shpuld be changes to 2.5GBAS-KXE

"The 1000BASE-KX PHY receiver should put unused functional blocks into a low power state to save energy."

SuggestedRemedy

1000BASE-KX should be changes to 2.5GBAS-KXE

"The 1000BASE-KX PHY receiver should put unused functional blocks into a low power state to save energy."

Proposed Response Status W

PROPOSED ACCEPT.

C/ 127A SC 127A

P **157** 

L 6

# <u>1</u>16

D'Ambrosia, John Futurewei, Subsidiary

Comment Type ER Comment Status D

Annex127A consists of two sentences with a pointer to Annex36A. This does not help with ease of reading for the reader.

SuggestedRemedy

Delete Annex127A. Replace the last sentnece in second paragraph of 127.3.4. with - The patterns described in Annex 36A may be used

for 2.5GBASE-X except the nominal bit rate is 2.5 times faster and any references to the GMII applies to the XGMII."

Proposed Response Status W

PROPOSED ACCEPT.

Cl 125 SC 125.1.4 P57 L 23 # 117

D'Ambrosia, John Futurewei, Subsidiary

Comment Type TR Comment Status D

Table 125-2 notes that autonegotiation is optional for 2.5GBASE-KX, however, in 73.3 it is stated that AN shall interact with PHYs. No note was found indicating that AN is optional to implement, but shall be implemented per Clause 73 if implemented.

SuggestedRemedy

Change entry in table for Row 2.5GBASE-KX to indicate that Clause 73 FEC is M

Proposed Response Status **W** 

PROPOSED ACCEPT.

C/ 128B SC 128B P 179 L 5 C/ 00 SC 0  $P\mathbf{0}$ # 118 LO # 124 Futurewei, Subsidiary **Broadcom Limited** D'Ambrosia, John Slavick, Jeff Comment Type ER Comment Status D Comment Type ER Comment Status D Annex 128B is primarily a duplication of Annex 69B. Such duplication should be avoided. 802.3by is an offiical standard SuggestedRemedy SuggestedRemedy Change all the 802.3by-201x to 8023by-2016 There are two options 1.delete annex 128B - modify annex 69B to add in specific requirements related to Proposed Response Response Status W 2.5GBASE-KR PROPOSED ACCEPT. 2. Delete redundant text in annex 128b, and replace in each instance with pointer to the original text in Annex 69B SC 78.1.1 P 53 Cl 78 L 18 # 125 Proposed Response Response Status W Slavick, Jeff **Broadcom Limited** PROPOSED ACCEPT IN PRINCIPLE. Comment Type TR Comment Status D Use solution #2. The change from "these" to a list of Clauses didn't keep the entire list. Delete redundant text in annex 128B, and replace in each instance with pointer to the original text in Annex 69A. SuggestedRemedy Add Clause 107 to the list of Clauses can generate RX\_LPI\_ACTIVE [Editor's note: Annex 69B should actually be 69A,] Proposed Response Response Status W SC 130B L 5 C/ 130B P 221 # 119 PROPOSED ACCEPT. D'Ambrosia, John Futurewei, Subsidiary C/ 128 SC 128.7.1.2 P 107 # 127 L 34. 3 Comment Type ER Comment Status D Smith. Daniel Seagate Annex 130B is primarily a duplication of Annex 69B. Such duplication should be avoided. Comment Type Comment Status D ER SuggestedRemedy ReturnLoss is not consistant with other usage. There are two options 1.delete annex 130B - modify annex 69B to add in specific requirements related to SuggestedRemedy 5GBASE-KR change to: Return\_Loss 2. Delete redundant text in annex 12830b, and replace in each instance with pointer to the original text in Annex 69B Proposed Response Response Status W Proposed Response PROPOSED ACCEPT. Response Status W PROPOSED ACCEPT. C/ 128 SC 128.7.1.5 P 108 L 31, 3 # 128 [Editor's note: an email thread indicates that option 2 was the one actually accepted.] Smith. Daniel Seagate Comment Type ER Comment Status D ReturnLoss is not consistant with other usage. SuggestedRemedy change to: Return\_Loss

Proposed Response

PROPOSED ACCEPT.

Response Status W

Cl 128C SC 128C.4.4 Smith, Daniel	P <b>188</b> Seagate	L <b>41</b>	# 129	Cl 127 SC 127.2.6.1.3 P74 L14 # 136 Smith, Daniel Seagate
Comment Type ER  Missing parenthesis on the	Comment Status <b>D</b> ne term: Af)			Comment Type ER Comment Status D capitalization in name
SuggestedRemedy s/b: A(f)				SuggestedRemedy should read: PMD_SIGNAL.indication(SIGNAL_DETECT).
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status <b>W</b> PROPOSED ACCEPT.
Cl 130A SC 130A.3.1.1 Smith, Daniel	P <b>206</b> Seagate	L 37	# [130	Cl 127 SC 127.2.6.1.6 P78 L 47 # 137 Smith, Daniel Seagate
Comment Type ER  Overbar on the decimal 1	Comment Status <b>D</b>			Comment Type ER Comment Status D capitalization in name
SuggestedRemedy remove the overbar				SuggestedRemedy should read: PMD_SIGNAL.indication(SIGNAL_DETECT).
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response Response Status <b>W</b> PROPOSED ACCEPT.
CI FM SC Smith, Daniel	P <b>4</b> Seagate	L 10	# [132	CI 128 SC 128.7.2.1 P112 L3 # 151 Smith, Daniel Seagate
Comment Type ER spelling of the word arabi	Comment Status <b>D</b>			Comment Type ER Comment Status D plural missing
SuggestedRemedy Arabic not arabic				SuggestedRemedy should read:
Proposed Response PROPOSED ACCEPT.	Response Status W			The receiver interference tolerance consists  Proposed Response Response Status W  PROPOSED ACCEPT.
CI 127 SC 127.2.6.2.3 Smith, Daniel	P <b>85</b> Seagate	L <b>2</b>	# 135	[Editor's note: I also removed the extra space before 'consist'.]
Comment Type ER	Comment Status D			

effecting hysteresis

PROPOSED ACCEPT.

s/b: affecting hysteresis (affect is a verb)

Response Status W

SuggestedRemedy

Proposed Response

Cl 45 SC 45.2.3.7a P 35 # 202 L 21 Lusted, Kent Intel

Comment Type ER Comment Status D

table 45-125a entries for bits 3.21.8 and 3.21.7 are not underlined (per IEEE style guide) to indicate insertions per editing instructions

SuggestedRemedy

Underline as necessary

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 128 SC 128.7.1.4 P 107 L 54 # 203 Lusted, Kent Intel

Comment Type TR Comment Status D

The minimum peak-to-peak transmitter amplitude is not specified in the specification. It is inferred to be >720mV in the "EEE capability" paragraph on page 108, linke 19. However, it is this reader's interpretation of that EEE paragraph that the >720 requirement only applies to PHYs that support the optional EEE.

SuggestedRemedy

Sufficiently define the minimum peak-to-peak amplitude for the transmitter.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Specify amplitude as a range from 800 mV to 1200 mV.

C/ 130 SC 130.7.1.11 P 146

L 8

# 207

Lusted, Kent Intel

Comment Type TR Comment Status D

value for Rpre is not defined in specification.

the min and max value of Rore is not defined in the specification.

SuggestedRemedy

Set a value for Rpre.

Define the min and max value of Rpre

Add relevant PICS entry.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

See comment #317 for first part

second part: add new entry FS19 in 130.10.4.2 PMD functional specifications

to cover the transmitter waveform definitions (Dan Smith to provide content)

C/ 130 SC 130.7.1.11 P 145 L 52 # 208 Intel

Lusted, Kent

Comment Type TR Comment Status D

For v1 and v3, the average voltage in the interval t1 to t2-T includes the shoulder rise time of the waveform. this artificially reduces the measured voltage from the true amplitude of the waveform at the midpoint.

SuggestedRemedy

consider defining a window in the flat portion of the waveform, away from the rise and falling edges, as the steady state voltage. see figure 72-12 for inspiration.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

See comments #192 and #193

SC 45.2.3.7a C/ 130 SC 130.7.1.7 P 144 # 209 Cl 45 P 35 L 21 L 30 # 213 Lusted, Kent Lusted, Kent Intel Intel Comment Status D Comment Type TR Comment Status D Comment Type ER The rising and falling transition times requirement references v1 and v4. v4 is the pretable 45-124a entries for bits 3.9.2 and 3.9.3 are not underlined (per IEEE style guide) to emphasis point. v3 is the negative waveform level. indicate insertions per editing instructions SuggestedRemedy SuggestedRemedy change "v4" to "v3" Underline as necessary Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 1 SC 1.4 P 26 L 40 # 211 Cl 1 SC 1.5 P 27 L 6 # 243 Lusted, Kent Baden, Eric **Broadcom Limited** Intel Comment Type TR Comment Status D Comment Type ER Comment Status D the definition for 5GBASE-R incorrectly references 10GBASE-R. 2.5GSEI line is missing period (".") at the end of sentence. Also 5GSEI SuggestedRemedy SuggestedRemedy Consider changing "10GBASE-R" to "5GBASE-R" in 1.4.74a4 Fix them Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. CI 1 SC 1.4 P 26 L 50 # 212 C/ 128 SC 128.7.1.10 P111 14 # 249 Lusted. Kent Intel Healey, Adam Broadcom Ltd. Comment Type TR Comment Status D Comment Type TR Comment Status D A procedure for the measurement for v1 and v2 is provided but no requirements on the The P802.3bs project is modifying the definition of BASE-R also. values of v1 and v2 are given. The P802.3by-20xx project is P802.3-2016. SuggestedRemedy SuggestedRemedy Include requirements for v1 and v2 or, if there are no requirements, remove the subclause. Add to editor note the dependency on P802.3bs changes to the definition of BASE-R. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Update reference to 802.3by with the published year.

Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.
[Editor's note: please supply dependency text.]

OBE, see comment #297, subclause 128.7.1.10 has been deleted.

Comment Type ER Comment Status D

The interconnect requirements are defined in Annex 128C.

SuggestedRemedy

Correct the reference.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 128A SC 128A.1 P160 L8 # 256

Healey, Adam Broadcom Ltd.

Comment Type TR Comment Status D

In Figure 128A-1, the test point adjacent to the PMD transmit function is TP0 but here it appears to be TP1. Which is correct?

SuggestedRemedy

Include the TX PCB before TP1 or change the test point to TP0.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

TR

Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent.

C/ 128A SC 128A.1 P160 L 27 # 257

Comment Status D

Healey, Adam Broadcom Ltd.

Why is the loss from TP1D-H to the connector 0.9 dB in one part of the figure and 1.375 dB in another part of the figure. What has changed? Similarly for the TP1 to TP5 insertion

SuggestedRemedy

Comment Type

Clarify the difference between the diagrams in Figure 128A-2.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent.

Refer to:

Calbone\_3cb\_02\_0916.pdf posted on Public page for Sept Interim.

Cl 128C SC 128C.4.3 P188 L2 # 272

Healey, Adam Broadcom Ltd.

Comment Type TR Comment Status D

Using Equation (128C-7), it appears the maximum insertion loss for 5GBASE-KR is allowed to be about 33.6 dB at 2.578125 GHz. This does not agree with a fitted attenuation limit of 13.4 dB at 2.578125 GHz and an insertion loss deviation limit of +/-2.8 dB at 2.578125 GHz. This implies the insertion loss should not exceed 16.2 dB at that frequency.

SuggestedRemedy

Revisit the insertion loss equation for 5GBASE-KR.

Proposed Response Response Status W

PROPOSED ACCEPT.

Corrected equation 128C-7 was incorrect and was changed, and Figure 128C-3 was replotted.

Cl 128C SC 128C.4.3 P188 L13 # 273

Healey, Adam Broadcom Ltd.

Comment Type TR Comment Status D

Equation (128C-7) states the range of the limit to be fmax, and in Table 128C-1, fmax is assigned a value of 7 GHz. However, Figure 128C-3 only plots the limit to about 2.25 GHz and it is unclear how the curve applies to 2.5GBASE-KX and 5GBASE-KR (compare to Figure 128C-2).

SuggestedRemedy

Replace the plot with one that illustrates the limit over the specified frequency range and annotate the plot so show how it applies to 2.5GBASE-KX and 5GBASE-KR respectively (including the "high confidence" regions").

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Changed, and Figure 128C-3 was replotted.