

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

| | | | | |
|-------|------|---|---|------|
| Cl 00 | SC 0 | P | L | # 64 |
|-------|------|---|---|------|

Kim, Yong Broadcom

Comment Type **ER** Comment Status **A**

Check EVERY sentence for missing period and put one as appropriate. There are multiple instances of that just in CL1.

SuggestedRemedy

Do so.

Response Response Status **C**

ACCEPT. Done in D1.1

| | | | | |
|-------|------|---|---|-------|
| Cl 00 | SC 0 | P | L | # 101 |
|-------|------|---|---|-------|

Kim, Yong Broadcom

Comment Type **ER** Comment Status **A**

Fix all unresolved cross refereces. There should not be any on the completed draft.

SuggestedRemedy

do so.

Response Response Status **C**

ACCEPT.

| | | | | |
|------|--------|---|---|------|
| Cl 1 | SC 1.4 | P | L | # 65 |
|------|--------|---|---|------|

Kim, Yong Broadcom

Comment Type **ER** Comment Status **A**

Accept the PA [Pete Anslow] comment and make XGMII definition to remain "10 GIGABIT Ethernet...".

SuggestedRemedy

Delete editors comments that starts with "??? -- 1.1.3.2f..." and revert back XGMII definition in CL125, CL127, CL129, diagrams and other places to remain and be consistent to "10 GIGABIT...".

Response Response Status **C**

ACCEPT. And in D1.1

| | | | | |
|------|--------|------|------|------|
| Cl 1 | SC 1.4 | P 23 | L 43 | # 14 |
|------|--------|------|------|------|

Lo, William Marvell Semiconducto

Comment Type **TR** Comment Status **A**

Annex 128A describes the 2.5GSEI and not just Clause 128A.2

SuggestedRemedy

Change Clause 128A.2 to Annex 128A

Response Response Status **C**

ACCEPT. Not correct in D1.1. "Annex" not "Clause"

| | | | | |
|------|--------|------|------|------|
| Cl 1 | SC 1.4 | P 23 | L 52 | # 15 |
|------|--------|------|------|------|

Lo, William Marvell Semiconducto

Comment Type **TR** Comment Status **A**

Annex 130A describes the 5GSEI and not just Clause 130A.2

SuggestedRemedy

Change Clause 130A.2 to Annex 130A

Response Response Status **C**

ACCEPT. Not correct in D1.1. "Annex" not "Clause"

| | | | | |
|------|--------|------|------|------|
| Cl 1 | SC 1.4 | P 24 | L 11 | # 16 |
|------|--------|------|------|------|

Lo, William Marvell Semiconducto

Comment Type **TR** Comment Status **A**

Need to add 2.5GSEI and 5GSEI

SuggestedRemedy

Add
2.5GSEI 2.5Gb/s Storage Enclosure Interface
5GSEI 5Gb/s Storage Enclosure Interface

Response Response Status **C**

ACCEPT. Done in D1.1 -- In Subclause 1.5 (not in 1.4 -- considering this as a typo).

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

Cl 30 SC 30.5.1.1.2 P 26 L 8 # 30
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A

Multiple issues with 30.5.1.1.2

- 1) Need to add 2.5GBASE-X and 5GBASE-R since they are enumerated in lines 23 and 24.
- 2) Current definitions on 2.5GBASE-KX and 5GBASE-KR should be PMD not PCS/PMA

SuggestedRemedy

Add

2.5GBASE-X X PCS/PMA as specified in Clause 127 over undefined PMD
5GBASE-R R PCS/PMA as specified in Clause 129 over undefined PMD

Change current definitions to

2.5GBASE-KX X PCS/PMA over an electrical backplane PMD as specified in Clause 128

5GBASE-KX R PCS/PMA over an electrical backplane PMD as specified in Clause 130

Response Response Status C

ACCEPT. Not completely done in D1.1. Delete missed "P" when deleting PCS/PMA

Cl 30 SC 30.5.1.1.2 P 26 L 9 # 66
Kim, Yong Broadcom

Comment Type ER Comment Status A

Change "new entry in" to "two new entries" on line 9 and also line 15

SuggestedRemedy

do so.

Response Response Status C

ACCEPT. Done in D1.1

Cl 45 SC 45.2.1.6 P L # 100
Kim, Yong Broadcom

Comment Type ER Comment Status A

Editing instruction -- change to "Change the description for bits 1.7.5:0 in Table 45-7 (as modified by IEEE Std 802.3by-2016, and IEEE Std 802.3bz-201x) as shown and adjust reserved rows as appropriate (unchanged rows not shown.)" from Change the description for bits 1.7.5:0 in Table 45-7 as shown and adjust reserved rows as appropriate.

SuggestedRemedy

do so.

Response Response Status C

ACCEPT. Done in D1.1

Cl 45 SC 45.2.1.7.1 P 27 L 45 # 31
Lo, William Marvell Semiconducto

Comment Type ER Comment Status A

Heading 45.2.1.7.1 is incorrect

SuggestedRemedy

Change to 45.2.1.7.4

Response Response Status C

ACCEPT. Done in D1.1

Cl 45 SC 45.2.1.8 P 28 L 21 # 32
Lo, William Marvell Semiconducto

Comment Type ER Comment Status A

Table 45-11 should be 45-12

SuggestedRemedy

Table 45-11 should be 45-12

Response Response Status C

ACCEPT. Done in D1.1

Cl 45 SC 45.2.1.14c P 28 L 36 # 67
Kim, Yong Broadcom

Comment Type ER Comment Status A

Delete Editors note. Bit assignments are coordinated, so the note is no longer needed

SuggestedRemedy

Do so

Response Response Status C

ACCEPT. Done in D1.1

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

| | | | | |
|-------------|---------------|----------------------|------|------|
| Cl 45 | SC 45.2.1.14c | P 28 | L 40 | # 33 |
| Lo, William | | Marvell Semiconducto | | |

Comment Type **ER** Comment Status **A**
Table 45-17g by inserting a row for the bit 1.21.3
should be
Table 45-17c by inserting a row for the bit 1.21.2

SuggestedRemedy
Fix per comment

Response Response Status **C**
ACCEPT. Done in D1.1

| | | | | |
|-----------|-----------------|----------|------|------|
| Cl 45 | SC 45.2.1.14c.b | P 29 | L 20 | # 68 |
| Kim, Yong | | Broadcom | | |

Comment Type **E** Comment Status **A**
Delete two editors notes one on line 20 and the other on line 27. Tutorial information is not
needed.

SuggestedRemedy
Do so.

Response Response Status **C**
ACCEPT. Done in D1.1

| | | | | |
|-----------|--------------|----------|------|------|
| Cl 45 | SC 45.2.1.88 | P 29 | L 40 | # 69 |
| Kim, Yong | | Broadcom | | |

Comment Type **ER** Comment Status **A**
Delete "Comment PA:..." The "Response:..." text is correct, so act on this comment and
resolution by deleting the ??? note text.

SuggestedRemedy
Do so.

Response Response Status **C**
ACCEPT. Same as Comment #34.

| | | | | |
|-------------|--------------|----------------------|------|------|
| Cl 45 | SC 45.2.1.88 | P 29 | L 40 | # 34 |
| Lo, William | | Marvell Semiconducto | | |

Comment Type **T** Comment Status **A**
Delete PA comment.
Same registers controls both 1000BASE-KX and 2.5GBASE-KX

SuggestedRemedy
Delete PA comment.

Response Response Status **C**
ACCEPT. Done D1.1

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

CI 45 SC 45.2.1.88 P 30 L 7 # 35
Lo, William Marvell Semiconducto

Comment Type T Comment Status A

Delete PA comment - but need to accept the comment.
See below for remedy.

SuggestedRemedy

Delete PA comment.
add:
"The assignment of bits in the 1000BASE-KX/2.5GBASE-KX control register shown in
Table 45-69"

(i.e. add the /2.5GBASE-KX to the sentence

Response Response Status C

ACCEPT IN PRINCIPLE.
Delete PA comment -- done in D1.1.
But the "Insert '/2.5GBASE-FX' to the sentence" does not exist. So do not see where to
insert. Commenter to clarify and resubmit.

Clarification from the commenter:
"Comment #35 was rejected but comments #34 and #70 were accepted.
I got confused here and mixed #34 and #35. I tried to further fix the text in #34 with #35
and never actually
fixed the text in #35.

The gist of it is in 802.3bx the following text below all instances of 1000BASE-KX have to
be change to
1000BASE-KX/2.5GBASE-KX including the sentences in the paragraphs.

Can you interpret both comments #34 and #35 as such and do an accept in principle.
Otherwise can you file a comment. to fix these since I won't be at the meeting.

Thanks,
William"

CI 45 SC 45.2.1.89 P 30 L 7 # 70
Kim, Yong Broadcom

Comment Type E Comment Status A

Delete "Comment PA:..." The "Response:..." text is correct, so act on this comment and
resolution by deleting the ??...?? note text.

SuggestedRemedy

do so.

Response Response Status C

ACCEPT. Done in D1.1

CI 45 SC 45.2.3 P 30 L 22 # 36
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A

Delete PA comment - but need to accept the comment.
See below for remedy.

SuggestedRemedy

Delete PA comment.

In table 45-119 from 802.3by change to
(i.e. add the 5G speed)

3.34 through 3.37
5/10/25GBASE-R PCS test pattern seed A
45.2.3.15

3.38 through 3.41
5/10/25GBASE-R PCS test pattern seed B
45.2.3.16

Response Response Status C

ACCEPT. Done in D1.1

CI 45 SC 45.2.3 P 30 L 24 # 37
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A
Missed a register change needed for loopback.

SuggestedRemedy

Add the following:

45.2.3.1 PCS control 1 register (Register 3.0)
45.2.3.1.2 Loopback (3.0.14)
Copy the text from 802.3bz and make the following change:
Change all instances of 10GBASE-R to 5/10GBASE-R

Response Response Status C
ACCEPT.

First comment - Adding 45.2.3.1 already added by 802.3bz -- not needed? Discuss.

Second comment -- Loopback -- changes to 45.2.3.1.2 done (ACCEPT). "5/" inserted 3 times. Done in D1.1

CI 45 SC 45.2.3.7a P 31 L 3 # 71
Kim, Yong Broadcom

Comment Type ER Comment Status A
Delete Editor's note -- outlived its useful relevance.

SuggestedRemedy
do so.

Response Response Status C
ACCEPT. Done in D1.1

CI 45 SC 45.2.3.13.1 P 32 L 34 # 38
Lo, William Marvell Semiconducto

Comment Type E Comment Status A
Missing space

SuggestedRemedy

Add space to the following:

in 126.3.7.1

Response Response Status C
ACCEPT. Done in D1.1

CI 45 SC 45.2.3.13.5 P 32 L 50 # 39
Lo, William Marvell Semiconducto

Comment Type E Comment Status A
Missing underline

SuggestedRemedy

Underline 5/ in 5/10/25GBASE-R

Response Response Status C
ACCEPT. Done in D1.0

CI 45 SC 45.2.3.16 P 34 L 9 # 40
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A
Wrong seed

SuggestedRemedy

Change seed A
to
seed B

Response Response Status C
ACCEPT. Done in D1.1

CI 45 SC 45.2.7.14ab P 35 L 30 # 41
Lo, William Marvell Semiconducto

Comment Type E Comment Status A
5GBASE-R should be 5GBASE-KR

SuggestedRemedy
See comment

Response Response Status C
ACCEPT. In D1.1

| | | | | |
|---|---------|----------------|---|------|
| Cl 45 | SC 45.3 | P 37 | L | # 73 |
| Kim, Yong | | Broadcom | | |
| Comment Type | ER | Comment Status | A | |
| Insert the following 2.5KX and 5KR rows before the 5T row in 45.5.3 as modified by IEEE Std 802.3bz-2016 (unchanged rows not shown) | | | | |
| ItemFeatureSubclauseValue/CommentStatusSupport | | | | |
| 2.5GKXImplementation of 2.5GBASE-KX PMA/PMD45.2.1.14c.bPMA:OYes [] | | | | |
| No [] | | | | |
| 5GKRImplementation of 5GBASE-KR PMA/PMD45.2.1.14c.aPMA:OYes [] | | | | |
| No [] | | | | |
| SuggestedRemedy | | | | |
| Do so. | | | | |
| Response | | | | |
| Response Status C | | | | |
| ACCEPT. | | | | |

| | | | | |
|--|------------------------------------|----------------|---------------|---------------|
| Cl 45 | SC 45.5.2.3 | P 37 | L | # 72 |
| Kim, Yong | | Broadcom | | |
| Comment Type | ER | Comment Status | A | |
| Insert the following 2.5G and 5G rows (this should have been done by 802.3bz but wasn't. Submitted as a sponsor ballot comment to .3bz) before the 5T row in 45.5.3 as modified by IEEE Std 802.3bz-2016 (unchanged rows not shown). | | | | |
| Item | Feature | Subclause | Value/Comment | StatusSupport |
| 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 | [] | | | |
| SuggestedRemedy | | | | |
| Either a) confirm that 802.3bz added this, b) put the editing instructions as provided. | | | | |
| Response | Response Status C | | | |
| ACCEPT IN PRINCIPLE. Likely to get accepted in 802.3bz sponsor. So a) take no action. | | | | |

| | | | | |
|--|-------------------|----------------|---|------|
| Cl 45 | SC 45.5.3.1 | P 37 | L | # 74 |
| Kim, Yong | | Broadcom | | |
| Comment Type | E | Comment Status | A | |
| Change the following MM124 row by adding 2.5GBASE-KX and 5GBASE-KR as shown below. (unchanged rows not shown). Note: 802.3by does NOT have similar modification. Should it? | | | | |
| SuggestedRemedy | | | | |
| ItemFeatureSubclauseValue/CommentStatusSupport | | | | |
| Add 2.5G and 5G in MM124 as follows - | | | | |
| MM124 Backplane Ethernet AN ability bit is set to 1 for 1000BASE-KX, 2.5GBASE-KX, 5GBASE-KR, 10GBASE-KX4 and 10GBASE-KR PHYs.45.2.7.12.32.5GKX:M; 5GKX:M; KX:M; KX4:M ;KR:MYes [] N/A [] | | | | |
| Response | Response Status C | | | |
| ACCEPT. Done in D1.1 | | | | |

| | | | | |
|---|-------------------|----------------|---|------|
| Cl 45 | SC 45.5.3.6 | P 38 | L | # 75 |
| Kim, Yong | | Broadcom | | |
| Comment Type | TR | Comment Status | A | |
| Add PCS options for 2.5G-KX and 5G-KR, and build/complete the optional mandatory tables for both. | | | | |
| SuggestedRemedy | | | | |
| PCS table entries are | | | | |
| ItemFeatureSubclauseValue/CommentStatusSupport | | | | |
| *2.5GXImplementation of 2.5GBASE-X PCS45.2.3.7aAN:MYes [] | | | | |
| N/A [] | | | | |
| *5GRImplementation of 5GBASE-R PCS45.2.3.7aAN:MYes [] | | | | |
| N/A [] | | | | |
| And complete the PICS group for each of 2.5GX and 5GR. | | | | |
| Response | Response Status C | | | |
| ACCEPT. Proposed text done in D1.1. But the rest of the "complete the table" not done in D1.1 | | | | |

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

Cl 69 **SC 69.1.1** **P** **L** # **98**
 Kim, Yong Broadcom

Comment Type **ER** **Comment Status** **A**

Change the editing instruction to "Insert two lines after the 1000BASE-KX line on the list after the second paragraph of 69.1.1." from "Insert two lines after the 1000BASE-KX on the list after the second paragraph of 69.1.1.", i.e. inserting "line" after -KX.

SuggestedRemedy
 do so.

Response **Response Status** **C**
 ACCEPT. Done in D1.1

Cl 69 **SC 69.1.2** **P** **L** # **99**
 Kim, Yong Broadcom

Comment Type **ER** **Comment Status** **A**

Delete editing instructions on XGMII. So delete the following
 "Change XGMII Legend in Figure 69-1 as shown:
 XGMII = 2.5 Gb/s, 5 Gb/s, and 10 Gb/s GIGABIT MEDIA INDEPENDENT INTERFACE"

SuggestedRemedy
 do so

Response **Response Status** **C**
 ACCEPT. Done in D1.1

Cl 73 **SC 73.2** **P** **L** # **102**
 Kim, Yong Broadcom

Comment Type **ER** **Comment Status** **A**

Change the editing instruction by deleting XGMII legend reference, so change to read
 "Change (add 2.5 Gb/s and 5 Gb/s in medium rates) Figure 73–1 as shown."

SuggestedRemedy
 do so.

Response **Response Status** **C**
 ACCEPT. Done in D1.1

Cl 73 **SC 73.7.4.1** **P 49** **L 3** # **42**
 Lo, William Marvell Semiconducto

Comment Type **E** **Comment Status** **A**

Missing space

SuggestedRemedy
 Add space between
 in 73.7.4.1

Response **Response Status** **C**
 ACCEPT. Done in D1.1.
 "eagle eyes William"

Cl 78 **SC 78.1.1** **P 53** **L 18** # **43**
 Lo, William Marvell Semiconducto

Comment Type **TR** **Comment Status** **A**

Not all PCS types support FEC.
 Clause 129 PCS does not support BASE-R FEC.

SuggestedRemedy
 Change
 these PCS types
 to
 the Clause 49 PCS and Clause 82 PCS

Response **Response Status** **C**
 ACCEPT. Done in D1.1

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

Cl 78 SC 78.1.3.3 P 53 L 25 # 44
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A

Clause 78.1.3.3.1 got dropped.
Put back

SuggestedRemedy

78.1.3.3.1 PHY LPI transmit operation

Change the fourth paragraph of 78.1.3.3.1 as shown.

The EEE capability in most PHYs (for example, 100BASE-TX, 10GBASE-T, 1000BASE-KX, 2.5GBASE-KX, 5GBASE-KR, 10GBASE-KR, and 10GBASE-KX4) requires the local PHY transmitter to go quiet after sleep is signalled.

Response Response Status C

ACCEPT. Back in D1.1

Cl 78 SC 78.1.4 P 53 L 30 # 45
Lo, William Marvell Semiconducto

Comment Type E Comment Status A

Delete extra colon at end of sentence

SuggestedRemedy

See comment

Response Response Status C

ACCEPT. Done in D1.1

Cl 125 SC 125 P 55 L 1 # 17
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A

Strip down Clause 125 to bare minimum highlighting the differences only.

SuggestedRemedy

See comment. Editor has discretion.

Response Response Status C

ACCEPT. Done in D1.1

Cl 125 SC 125.1.2 P 55 L # 86
Kim, Yong Broadcom

Comment Type E Comment Status A

Act on the Editor's note and convert the CL125 to series of editing instructions. Draft is not complete unless done so.

SuggestedRemedy

Do so, and make editing instructions more explicit and clearer, wherever necessary.

Response Response Status C

ACCEPT. See Comment #17

Cl 125 SC 125.1.2 P 55 L 40 # 18
Lo, William Marvell Semiconducto

Comment Type ER Comment Status A

Item d is new - need to underline it.

SuggestedRemedy

See comment.

Response Response Status C

ACCEPT. Done in D1.1

Cl 125 SC 125.1.4 P L # 103
Kim, Yong Broadcom

Comment Type ER Comment Status A

Please consider adding 128A and 130A as optional electrical so that readers could find the storage backplane electrical specification easier.

SuggestedRemedy

Do so.

Response Response Status C

ACCEPT IN PRINCIPLE.

CL128 refereces Annex 128A. So no problem exist. But Editor to add a note or sentence referring to existance of 128A and 130A in CL125.1.4. Giving editorial rights to the editor.

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

CI 125 SC 125.1.4 P 58 L 13 # 1
Lo, William Marvell Semiconducto

Comment Type ER Comment Status A
2.5GBASE-KX and 5GBASE-KR are new - need to underline it.

SuggestedRemedy
See comment.

Response Response Status C
ACCEPT. Done in D1.1

CI 125 SC 125.1.4 P 58 L 19 # 2
Lo, William Marvell Semiconducto

Comment Type ER Comment Status A
missing space

SuggestedRemedy
Add space between
reference columns

Response Response Status C
ACCEPT. Done in D1.1
Space added between "Change Table"

CI 125 SC 125.2.2 P 59 L 52 # 3
Lo, William Marvell Semiconducto

Comment Type ER Comment Status A
Sentence is new - need to underline it.

SuggestedRemedy
See comment.

Response Response Status C
ACCEPT. Editing instruction now uses "Insert", so no underlined sentence.

CI 125 SC 125.2.4.2 P 60 L 32 # 4
Lo, William Marvell Semiconducto

Comment Type ER Comment Status A
Clause 125.2.4.2 is new - need to underline entire clause.

SuggestedRemedy
See comment.

Response Response Status C
ACCEPT.
Editing instruction now uses "Insert", so no underlined sentence.

CI 125 SC 125.3 P 61 L 22 # 5
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A
Delete PA comment in both cells

Clause 70.4 1000BASE-KX PCS+PMA+PMD delay is 328 bits
This is not an integer pause_quanta. i.e $328/512 = 0.640625$

For 2.5GBASE-KX we are making the entire PCS+PMA+PMD to be 1024 which is an integer pause_quanta. We are giving PCS more budget where it is needed instead of doing 512 bits for PCS+PMA and 512 bits for PMD.

SuggestedRemedy
Delete PA comment in both cells

Response Response Status C
ACCEPT IN PRINCIPLE.
Discuss. Just deleting the PA comment does not fix the issue. Quanta requires integer value, so only remedy may be:
a) PCS/PMA 2=PQ, PMD=1 PQ, or
b) PCS/PMA/PMD = 2 PQ (this choice will reduce the entry to PHY (=PCS/PMA/PMD)).

Delete 2.5G PCS/PMA line, replace 2.5G "PMD" with "PHY", state 2 PQ, and keep both references.

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

CI 127 SC 127.2.4.5 P 70 L 54 # 6
Lo, William Marvell Semiconducto

Comment Type E Comment Status A
Delete (())

SuggestedRemedy
Delete the parenthesis

Response Response Status C
ACCEPT. Just one set of () deleted. Done in D1.0

CI 127 SC 127.2.5 P 71 L 49 # 7
Lo, William Marvell Semiconducto

Comment Type E Comment Status A
Delete extra period at end of paragraph

SuggestedRemedy
See comment

Response Response Status C
ACCEPT. Done in D1.1

CI 127 SC 127.2.6.1.3 P 77 L 26 # 8
Lo, William Marvell Semiconducto

Comment Type E Comment Status A
Delete extra period at end of paragraph

SuggestedRemedy
See comment

Response Response Status C
ACCEPT. Done in D1.1

CI 127 SC 127.2.6.1.3 P 77 L 31 # 9
Lo, William Marvell Semiconducto

Comment Type E Comment Status A
Add period at end of paragraph

SuggestedRemedy
See comment

Response Response Status C
ACCEPT. Done in D1.1

CI 127 SC 127.2.6.1.4 P 80 L 50 # 10
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A
should be table 36-1a-e

SuggestedRemedy
Change 36a-e
to
36-1a-e

Response Response Status C
ACCEPT. Done in D1.1

CI 127 SC 127.2.6.1.4 P 81 L 4 # 11
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A
should be table 36-1a-e

SuggestedRemedy
Change 36a-e
to
36-1a-e

Two instances of this.

Response Response Status C
ACCEPT. Done in D1.1

CI 127 SC 127.2.6.2.6 P 94 L 16 # 12
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A
) at the wrong place.
Put it at the end.

SuggestedRemedy
) at the wrong place.
Put it at the end just like the other 4 states below it.

Response Response Status C
ACCEPT. Done in D1.1

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

Cl 127 SC 127.2.6.2.7 P 95 L 4 # 13
Lo, William Marvell Semiconducto

Comment Type **TR** Comment Status **A**

Wrong reference
(See Clause 36.2.5.2.9)

SuggestedRemedy

Figure 127-10 should be Table 36-10

Response Response Status **C**

ACCEPT. Done in D1.1

Cl 128 SC 128.4 P 108 L 25 # 19
Lo, William Marvell Semiconducto

Comment Type **E** Comment Status **A**

Delete extra comma

SuggestedRemedy

Delete extra comma after Clause 31

Response Response Status **C**

ACCEPT. Done in D1.1

Cl 128 SC 128.6.5 P 110 L 34 # 87
Kim, Yong Broadcom

Comment Type **ER** Comment Status **A**

Delete Editor's note. No longer relevant.

SuggestedRemedy

do so.

Response Response Status **C**

ACCEPT. Done in D1.1

Cl 128 SC 128.6.5 P 110 L 35 # 20
Lo, William Marvell Semiconducto

Comment Type **ER** Comment Status **A**

Remove editor's note
TBDs are resolved.

SuggestedRemedy

Remove editor's note

Response Response Status **C**

ACCEPT. Done in D1.1

Cl 128 SC 128.6.6 P 111 L 4 # 21
Lo, William Marvell Semiconducto

Comment Type **TR** Comment Status **A**

Wrong reference

SuggestedRemedy

Should be 45.2.1.1.5

Response Response Status **C**

ACCEPT. Done in D1.1

Cl 128 SC 128.7 P 112 L # 88
Kim, Yong Broadcom

Comment Type **ER** Comment Status **A**

Delete Editor's note. No longer relevant.

SuggestedRemedy

do so

Response Response Status **C**

ACCEPT. Done in D1.1

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

| | | | | |
|--|----------------------|----------------------|-----|------|
| Cl 128 | SC 128.7 | P 112 | L 3 | # 22 |
| Lo, William | | Marvell Semiconducto | | |
| Comment Type | ER | Comment Status | A | |
| Remove editor's note TBDs are resolved. | | | | |
| SuggestedRemedy | Remove editor's note | | | |
| Response | Response Status C | | | |
| ACCEPT. Done in D1.1 | | | | |

| | | | | |
|---|--|----------------------|-----|-------|
| Cl 128 | SC 128B.2.1 | P 190 | L 5 | # 114 |
| patra, lenin | | Marvell Semiconducto | | |
| Comment Type | T | Comment Status | A | |
| " Regardless of equalization setting" text should be removed as 2.5GBASE-KX does not have any Transmitter equalization | | | | |
| SuggestedRemedy | Remove the Text : regardless of equalization setting | | | |
| Response | Response Status C | | | |
| ACCEPT. Done in D1.1 Good catch! | | | | |

| | | | | |
|---|------------------------------------|----------------------|------|-------|
| Cl 128 | SC 128C.4.6.4 | P 199 | L 37 | # 113 |
| patra, lenin | | Marvell Semiconducto | | |
| Comment Type | E | Comment Status | A | |
| Extra parenthesis on 2GHz should be removed | | | | |
| SuggestedRemedy | 2GHZ) should be replaced with 2GHz | | | |
| Response | Response Status C | | | |
| ACCEPT. Done in D1.1 | | | | |

| | | | | |
|-------------------------------------|-----------------|--------------------|------|------|
| Cl 128A | SC 128A.1 | P 172 | L 52 | # 53 |
| Smith, Daniel | | Seagate Technology | | |
| Comment Type | TR | Comment Status | A | |
| 0.3608 s/b: 3.608 in first equation | | | | |
| SuggestedRemedy | | | | |
| change equation 128A-1 | | | | |
| Response | Response Status | | C | |
| ACCEPT. Done in D1.1 | | | | |

| | | | | |
|---|-----------------|----------------|------|------|
| Cl 128A | SC 128A.3.1.2 | P 176 | L 41 | # 95 |
| Kim, Yong | | Broadcom | | |
| Comment Type | ER | Comment Status | A | |
| Delete both editors notes (line 41 and line 50) | | | | |
| SuggestedRemedy | | | | |
| DO SO | | | | |
| Response | Response Status | | C | |
| ACCEPT. Done in D1.1 | | | | |

| | | | | |
|----------------------|-----------------|----------------|-----|------|
| Cl 128A | SC 128A.3.1.4.1 | P 178 | L 5 | # 96 |
| Kim, Yong | | Broadcom | | |
| Comment Type | ER | Comment Status | A | |
| Delete editors note. | | | | |
| SuggestedRemedy | | | | |
| do so. | | | | |
| Response | Response Status | | C | |
| ACCEPT. Done in D1.1 | | | | |

| | | | | |
|----------------------|-----------------|----------------|------|------|
| Cl 128A | SC 128A.3.3 | P 182 | L 33 | # 76 |
| Kim, Yong | | Broadcom | | |
| Comment Type | ER | Comment Status | A | |
| Delete editors note | | | | |
| SuggestedRemedy | | | | |
| do so. | | | | |
| Response | Response Status | | C | |
| ACCEPT. Done in D1.1 | | | | |

CI 128A SC Figure 128A-3 P 173 L 28 # 54
 Smith, Daniel Seagate Technology
 Comment Type TR Comment Status A
 reformat graph to match equation
 SuggestedRemedy
 replace Figure with new plot from Dan Smith
 Response Response Status C
 ACCEPT.

CI 128A SC Figure 128A-7 P 177 L 51 # 55
 Smith, Daniel Seagate Technology
 Comment Type TR Comment Status A
 reformat graph to match equation and use logarithmic x-axis
 SuggestedRemedy
 replace Figure with new plot from Dan Smith
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Editor to annotate x-axis with non-scientific notation.

CI 128B SC P 189 L 5 # 97
 Kim, Yong Broadcom
 Comment Type ER Comment Status A
 Delete editors note.
 SuggestedRemedy
 do so.
 Response Response Status C
 ACCEPT. Done in D1.1

CI 128C SC 128C.4.1 P L # 104
 Kim, Yong Broadcom
 Comment Type ER Comment Status A
 Delete editors note "?? any..... 0.312GHz ??"
 SuggestedRemedy
 do so
 Response Response Status C
 ACCEPT. Done in D1.1

CI 128C SC 128C.4.1 P 194 L 34 # 115
 patra, lenin Marvell Semiconducto
 Comment Type TR Comment Status A
 Fmax is set to 15GHz
 SuggestedRemedy
 Fmax should be set to 7GHz
 Response Response Status C
 ACCEPT. Done in D1.1 but discuss.

CI 128C SC 128C.4.2 P L # 105
 Kim, Yong Broadcom
 Comment Type ER Comment Status A
 Delete Meliz comment note "?? Figure 128C-2 to be generated to the frequency f2 only - Melitz comment??
 SuggestedRemedy
 do so
 Response Response Status C
 ACCEPT. Done in D1.1

CI 128C SC 128C.4.3 P L # 106
 Kim, Yong Broadcom
 Comment Type ER Comment Status A
 Delete Melitz comment "??? equation ... ??"
 SuggestedRemedy
 do so.
 Response Response Status C
 ACCEPT. Done in D1.1

CI 128C SC 128C.4.3 P 196 L 33 # 116
patra, lenin Marvell Semiconducto

Comment Type TR Comment Status A

Insertion loss frequency points need to be changed. Fmin and Fmax should be specified in the equation

SuggestedRemedy

0.05 < f < 1.5625 should be rewritten as:
Fmin < f < 1.5625

1.5625 < f < 2.34375 should to be rewritten as
1.5625 < f < Fmax

Response Response Status C

ACCEPT. Done in D1.1
Good catch.

CI 128C SC Annex 128C.4.2 P 196 L 2 # 107
Zhang, Jin Marvell Semiconducto

Comment Type T Comment Status A

The figure 128C-2 needs to be updated

SuggestedRemedy

Use Figure 128C_2_fittedInsertionloss.bmp

Response Response Status C

ACCEPT IN PRINCIPLE. Commenter to re-submit with Y-axis negative scale changed to positive.

CI 128D SC P 201 L 8 # 77
Kim, Yong Broadcom

Comment Type ER Comment Status A

Delete editors note.

SuggestedRemedy

do so.

Response Response Status C

ACCEPT. Done in D1.1

CI 128D SC 128D.2 P 203 L 3 # 78
Kim, Yong Broadcom

Comment Type ER Comment Status A

Discuss editors note (clause contributor's comment) and close it.

And also apply that discussion to note on 130A.2, and consider both.

SuggestedRemedy

Decide on a action to close this note on 128D.2 and 130A.2

Response Response Status C

ACCEPT IN PRINCIPLE. Comment not clear.
Commentor clarified (Anthony). Editors note terms are all satisfied. Delete the editor's note.

CI 128D SC 128D.2.2 P 204 L 32 # 60
Smith, Daniel Seagate Technology

Comment Type TR Comment Status A

Insertion Loss is the incorrect term..

SuggestedRemedy

Change all "Insertion Loss" references to
"Return Loss" on lines 32 and 37

Response Response Status C

ACCEPT. Done in D1.1

CI 128D SC 128D.2.2 P 204 L 32 # 59
Smith, Daniel Seagate Technology

Comment Type TR Comment Status A

Equation 128D-4 is incorrect

SuggestedRemedy

Change equation 128D-4 to:
 $y(f) = 17 - f \quad 0.01 \leq f < 4$
 $y(f) = 15 - 0.5f \quad 4 \leq f < 5.15625$

Response Response Status C

ACCEPT. Done in D1.1
Just changing "+" with "-" twice.

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

CI 128D SC Figure 128D-2 P 202 L 27 # 56
Smith, Daniel Seagate Technology

Comment Type TR Comment Status A
reformat graph to match equation

SuggestedRemedy

replace Figure with new plot from Dan Smith

Response Response Status C
ACCEPT.

CI 128D SC Figure 128D-4 P 204 L 22 # 57
Smith, Daniel Seagate Technology

Comment Type TR Comment Status A
reformat graph to match equation and use logarithmic x-axis

SuggestedRemedy

replace Figure with new plot from Dan Smith

Response Response Status C
ACCEPT.

CI 128D SC Figure 128D-5 P 205 L 19 # 58
Smith, Daniel Seagate Technology

Comment Type TR Comment Status A
reformat graph to match equation and use logarithmic x-axis

SuggestedRemedy

replace Figure with new plot from Dan Smith

Response Response Status C
ACCEPT IN PRINCIPLE. Commenter to resubmit

CI 129 SC 129.1.1 P 125 L 12 # 23
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A
Need both PCS and PMA

SuggestedRemedy

"the PMA"
should be
"the PCS and PMA"

Response Response Status C
ACCEPT. Done in D1.1

CI 129 SC 129.1.3 P 126 L 33 # 24
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A
Need both PCS and PMA

SuggestedRemedy

"PMA"
should be
"PCS and PMA"

Response Response Status C
ACCEPT. Done in D1.1

CI 129 SC 129.2.1 P 127 L 46 # 25
Lo, William Marvell Semiconducto

Comment Type E Comment Status A
Add missing period at end of paragraph.

SuggestedRemedy

See comment

Response Response Status C
ACCEPT. Done in D1.1

CI 129 SC 129.2.2 P 129 L 30 # 26
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A

Incorrect variable label.

SuggestedRemedy

rx_data_unit
should be
rx_data-group

2 instances

Response Response Status C

ACCEPT. Done in D1.1

CI 129 SC 129.2.3 P 37 L # 89
Kim, Yong Broadcom

Comment Type E Comment Status A

Change "Note that these.." to "These.."

SuggestedRemedy

Style. Uggghhhh!

Response Response Status C

ACCEPT. Done in D1.1

CI 129 SC 129.2.3 P 129 L 34 # 27
Lo, William Marvell Semiconducto

Comment Type E Comment Status A

It would be good if Clause 129.2.3 heading and text appear before Figure 129-2 since text is describing the figures.

SuggestedRemedy

See comment

Response Response Status C

ACCEPT. Done in D1.1

CI 129 SC 129.2.4 P 130 L 8 # 28
Lo, William Marvell Semiconducto

Comment Type E Comment Status A

It would be good if table 129-1 and 129-2 appear right after clause 129.2.4 since text is describing the tables.

SuggestedRemedy

See comment

Response Response Status C

ACCEPT. Done in D1.1
Forced pagination to do this * May not please IEEE editors *

CI 129 SC 129.7 P 132 L # 90
Kim, Yong Broadcom

Comment Type TR Comment Status A

PICS for CL 129 not done. Also CL127, CL128, CL130, Annex 128A, Annex 128D, Annex 130A PICS also needs to be completed.

SuggestedRemedy

Do so.

Response Response Status C

ACCEPT IN PRINCIPLE.
AI: DS to do PICS, and current Editor to edit for the next draft rev.

CI 130 SC 130.6.8 P 145 L 17 # 29
Lo, William Marvell Semiconducto

Comment Type TR Comment Status A

Wrong reference

SuggestedRemedy

45.2.1.7.1 should be
45.2.1.7.4

Response Response Status C

ACCEPT. Done by reference correction by other comment.

CI 130 SC 130.7.1 P 146 L 5 # 91
 Kim, Yong Broadcom
 Comment Type ER Comment Status A
 Editor's note no longer relevent. Delete.
 SuggestedRemedy
 Do so.
 Response Response Status C
 ACCEPT. Done in D1.1

CI 130 SC 130.7.1 P 146 L 35 # 51
 Wu, Peter Marvell Semiconducto
 Comment Type TR Comment Status A
 The total jitter is 0.30 UI instaed of 0.28 UI at table 130-4
 SuggestedRemedy
 Change 0.28 to 0.30
 Response Response Status C
 ACCEPT. Done in D1.1

CI 130 SC 130.7.1.2 P 147 L 30 # 52
 Wu, Peter Marvell Semiconducto
 Comment Type E Comment Status A
 At Equation 130-1, Return_loss min is not necessary
 SuggestedRemedy
 removed, it reads:
 $\text{Return_loss}(f) \geq 20$
 Response Response Status C
 ACCEPT. Done in D1.1

CI 130 SC 130.7.1.2 P 147 L 35 # 46
 Wu, Peter Marvell Semiconducto
 Comment Type E Comment Status A
 At Equation 130-2, the X operator should be removed and base 10 should be pulled closer to log, and the "returnloss min" is not necessary, missing "MHz" (refer to format used in Equation 72-3)
 SuggestedRemedy
 remove "x" and pull "10" to "log", and remove "Returnloss min", add "MHz" in Equation.

Return_loss(f) $\geq 10 - 13.275 \log_{10}(f/1289\text{MHz})$
 Response Response Status C
 ACCEPT. Done in D1.1
 With exception that log base 10 could not be pulled closer.

CI 130 SC 130.7.1.6 P 149 L 29 # 47
 Wu, Peter Marvell Semiconducto
 Comment Type E Comment Status A
 "Return_lossmin" at 130-5 is not necessary
 SuggestedRemedy
 Remove Returnloss min =
 Response Response Status C
 ACCEPT. Done in D1.1

CI 130 SC 130.7.1.6 P 149 L 34 # 48
 Wu, Peter Marvell Semiconducto
 Comment Type E Comment Status A
 Same problem as we have at Equation 130-2.
 SuggestedRemedy
 remove "x" and pull "10" to "log", and remove "Returnloss min", add "MHz" in Equation.
 $\text{Return_loss}(f) \geq 7 - 13.275 \log_{10}(f/1250\text{MHz})$
 Response Response Status C
 ACCEPT. Done in D1.1

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

CI 130 SC 130.7.1.11 P 152 L 3 # 49
Wu, Peter Marvell Semiconducto

Comment Type E Comment Status A

missing description for v4

SuggestedRemedy

add:
v4 = minimum voltage measured in the interval t3-T and t3

Response Response Status C

ACCEPT. Done in D1.1

CI 130 SC 130.7.2.1 P 153 L 3 # 50
Wu, Peter Marvell Semiconducto

Comment Type ER Comment Status A

Table 130-6 has two tests defined, but at the description, only one is mentioned.

SuggestedRemedy

Changed the text to:
The receiver interference tolerance shall consist of two separate tests as described in Annex 130B with the Parameters specified in Table 130-6. The data pattern for the interference tolerance test shall be the test Patterns 2 or 3 as defined in 52.9.1.1. The receiver shall satisfy the requirements for interference tolerance specified in Annex 130B for both tests

Response Response Status C

ACCEPT. Done in D1.1

CI 130 SC 130.7.2.3 P 153 L 36 # 92
Kim, Yong Broadcom

Comment Type E Comment Status A

Change "It should be noted that there may..." to "There may..."

SuggestedRemedy

delete extra words that does not convey anything.

Response Response Status C

ACCEPT. Done in D1.1

CI 130 SC 130.7.2.4 P 153 L 47 # 93
Kim, Yong Broadcom

Comment Type E Comment Status A

Change "Note that this may be..." to "This may be..."

SuggestedRemedy

Delete extra words that does not convey anything.

Response Response Status C

ACCEPT. Done in D1.1

CI 130A SC 130A.1 P 210 L 51 # 61
Smith, Daniel Seagate Technology

Comment Type TR Comment Status A

Incorrect coefficient in equation 130A-1

SuggestedRemedy

Replace 0.3608 with 3.608 in first equation

Response Response Status C

ACCEPT. Done in D1.1

CI 130A SC 130A.3.1.2 P 214 L 45 # 79
Kim, Yong Broadcom

Comment Type ER Comment Status A

Delete editors note.

SuggestedRemedy

Do so.

Response Response Status C

ACCEPT. Done in D1.1

CI 130A SC 130A.3.1.3 P 215 L 19 # 80
Kim, Yong Broadcom

Comment Type ER Comment Status A

delete editors note.

SuggestedRemedy

do so.

Response Response Status C

ACCEPT. Done in D1.1

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review commentsF Review - D1.0 Comments

CI 130A SC 130A.3.1.4.1 P 216 L 45 # 81
Kim, Yong Broadcom
Comment Type ER Comment Status A
Delete editors note.
SuggestedRemedy
do so.
Response Response Status C
ACCEPT. Done in D1.1

CI 130A SC 130A.3.3 P 221 L 3 # 82
Kim, Yong Broadcom
Comment Type ER Comment Status A
Delete editors note
SuggestedRemedy
do so.
Response Response Status C
ACCEPT. Done in D1.1

CI 130A SC 130A.3.3.1 P 221 L 42 # 83
Kim, Yong Broadcom
Comment Type ER Comment Status A
Delete editors note.
SuggestedRemedy
do so.
Response Response Status C
ACCEPT. Done in D1.1

CI 130A SC Figure 130A-3 P 211 L 28 # 62
Smith, Daniel Seagate Technology
Comment Type TR Comment Status A
reformat graph to match equation
SuggestedRemedy
replace Figure with new plot from Dan Smith
Response Response Status C
ACCEPT.

CI 130A SC Figure 130A-7 P 216 L 20 # 63
Smith, Daniel Seagate Technology
Comment Type TR Comment Status A
reformat graph to match equation and use logarithmic x-axis
SuggestedRemedy
replace Figure with new plot from Dan Smith
Response Response Status C
ACCEPT IN PRINCIPLE. Editor to annotate scientific notation on x-axis to integers.

CI 130B SC P 229 L 6 # 84
Kim, Yong Broadcom
Comment Type ER Comment Status A
Delete editors note
SuggestedRemedy
do so.
Response Response Status C
ACCEPT. Done in D1.1

CI 130C SC P 233 L 1 # 85
Kim, Yong Broadcom
Comment Type E Comment Status A
Consider deleting Annex 130C entirely. And find all references to Annex 130C and point it/them to Annex 128C.
SuggestedRemedy
Do so.
Response Response Status C
ACCEPT.

CI **Annex** SC **P 165** L 14 # 94
Kim, Yong Broadcom

Comment Type T Comment Status R

It would be useful to reference SGMII spec. If there is a reliable repository of SGMII, it would be good to have it listed here.

SuggestedRemedy

If SGMII could be referenced (where to be found or what to contact to get it, etc), please put the reference here.

Response Response Status C

REJECT. There is no reference source that is deemed to be long-lived.

CI **128C** SC **Annex 128C.4.3** **P 197** L 3 # 108
Zhang, Jin Marvell Semiconducto

Comment Type T Comment Status A

The figure 128C-3 needs to be updated.

SuggestedRemedy

Use the plot Figure_128C_3_Insertionloss_2.bmp

Response Response Status C

ACCEPT IN PRINCIPLE. Insertion loss y-axis scale need to be positive #s and will be resubmitted.

CI **128C** SC **Annex 128C.4.4** **P 197** L 38 # 112
Zhang, Jin Marvell Semiconducto

Comment Type TR Comment Status A

The equations 128C-9 and 128C-10 are incorrect.

SuggestedRemedy

$ILD(f) \geq -1.0 - 0.7 \cdot 10^{-9} f$ (128C-9)
 $ILD(f) \leq 1.0 + 0.7 \cdot 10^{-9} f$ (128C-10)

Response Response Status C

ACCEPT. Done in D1.1

CI **128C** SC **Annex 128C.4.4** **P 198** L 3 # 109
Zhang, Jin Marvell Semiconducto

Comment Type T Comment Status A

The figure 128C-4 needs to be updated as below

SuggestedRemedy

Use Figure_128C_4_ILD.bmp

Response Response Status C

ACCEPT.

CI **128C** SC **Annex 128C.4.5** **P 198** L 41 # 110
Zhang, Jin Marvell Semiconducto

Comment Type T Comment Status A

Need a plot for the return loss.

SuggestedRemedy

Use Figure 128C_X_RL.bmp

Response Response Status C

ACCEPT IN PRINCIPLE. Insert this Figure after (equation 128C-11)

CI **128C** SC **Annex 128C.4.6.4** **P 200** L 1 # 111
Zhang, Jin Marvell Semiconducto

Comment Type T Comment Status A

The plot Figure 128C-5 needs to be updated to log scale.

SuggestedRemedy

Use Figure 128C_5_fittedICR.bmp

Response Response Status C

ACCEPT.