3802.3cp D2.2 BiDi 10, 25, and $50 \mathrm{~Gb} / \mathrm{s}$ Optical Access PHYs 2nd Working Group recirculation ballot com

| CI FM SC FM | P1 | L32 | \# 28 |
| :--- | :---: | :---: | :---: |
| Anslow, Pete |  | Independent |  |
| Comment Type $\quad$ E | Comment Status X |  |  |

The copyright_year variable should be set to "2020" in all clauses in the book. This is not the case for the front matter
SuggestedRemedy
set the copyright_year to 2020 in the front matter
Proposed Response
Response Status $\mathbf{O}$

| Cl $45 \quad$ SC 45.2.1.110 | P34 | L38 | \# 27 |  |
| :--- | :---: | :---: | :---: | :--- |
| Slavick, Jeff | Broadcom |  |  |  |

Slavick, Jeff
Comment Type $\quad$ TR $\quad$ Comment Status $\mathbf{X}$
There are more than one RS-FEC available in the IEEE standard. So removing the
description of which one this bit enables in the description can cause confusion.
SuggestedRemedy
Change "The" to "Clause 108" for both instances
Proposed Response
Response Status

| CI 45 | SC 45.2.1.110 | P34 | L38 |
| :--- | :---: | :---: | :---: |
| Anslow, Pete | Independent |  | \# 30 |


| Dawe, Piers | Nvidia |
| :--- | :--- | :--- |
| Comment Type $\quad$ E $\quad$ Comment Status X |  |

It's been years since P802.3bj and IEEE P802.3bk were amendment projects.
SuggestedRemedy
Replace these with the current list of amendment projects. Pages 11 and 12 show some of them. P802.3cr, P802.3cu, P802.3cp, P802.3ck, and more.
Proposed Response Response Status 0

| Cl 44 | SC 44.3 | P25 | L6 |
| :--- | ---: | ---: | ---: |
| Dawe, Piers | Nvidia | \# |  |

Dawe, Piers $\quad$ Nvidia
8023.ch

Comment Status X

SuggestedRemedy

## 802.3ch

Proposed Response Response Status 0

| CI 44 SC 44.3 | P25 | L14 |
| :--- | :---: | :---: |
| Anslow, Pete | Independent |  |

Anslow, Pete Independent

Comment Type $\mathbf{E}$ Comment Status X
In the new row in Table 44-2, "24576" should have a space as a thousands separator.
SuggestedRemedy
Change " 24576 " to " 24 576"
Proposed Response Response Status 0

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line
$\begin{array}{ll}\text { Pa } & 44 \\ \text { Li } & 47\end{array}$

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| Cl 108 | SC 108.2 | P44 | L51 |
| :--- | :---: | :---: | :---: |
| Slavick, Jeff | Broadcom |  | 22 |


| Cl 108 | SC 108.2.1 | P46 | L7 | \# 25 |
| :--- | :---: | :---: | :---: | :---: |
| Slavick, Jeff |  | Broadcom |  |  |

## Comment Type TR Comment Status X

10GBASE-R and 25GBASE-R are PCS blocks.
SuggestedRemedy
Add the word PHYs after both 10GBASE-R and 25GBASE-R to the second sentence of the second paragraph of 108.2. And in the 3 paragraph of 108.2
Proposed Response Response Status 0

| Cl 108 | SC 108.2 | P44 | L52 |
| :--- | :---: | :---: | :---: |
| Slavick, Jeff | Broadcom | \# 23 |  |

Comment Type TR Comment Status X
The last two sentences of the 2 nd paragraph don't provide any additional information.
SuggestedRemedy
Remove them.
Proposed Response Response Status 0

| Cl 108 | SC 108.2 | P45 | L6 |
| :--- | :---: | :---: | :---: |
| Slavick, Jeff | Broadcom |  | \# 24 |

Slavick, Jeff Broadcom

Comment Type TR Comment Status X
The origninal text for this section explicitly calls out only the C2C link as a viable AUI extensions.

## SuggestedRemedy

Change the 4th paragraph to be "The PCS may be connected to the 10GBASE-R and
25GBASE-R FEC using an optional physical instantiation of the PMA service interface (see Clause 51 and Annex 109A), in which case a PMA is the client of the FEC service interface
Proposed Response
Response Status 0

Comment Type TR Comment Status X
While the sub-heading implies this is for 10G operations, make it clearly stated.
SuggestedRemedy
Add "for 10GBASE-R PHYs" after the word interface of the first sentence of 108.2.1
Proposed Response Response Status O

| $C l$ | 108 | $S C$ | 108.2 | P46 | L14 |
| :--- | :--- | :--- | :--- | :--- | :--- |

Dawe, Piers Nvidia

Comment Type TR Comment Status X
Energy detect and deep sleep? 78 e.g. 78.1.3.3.1 and 108.1.3.2 and 108.2, and note b to Table 78-1

SuggestedRemedy
Should not apply for 10GBASE-BR20, so not needed for 10G RS-FEC. Remove.
Proposed Response Response Status 0

| Cl 108 | SC 108.2.2 | P49 | L9 |
| :--- | :---: | :---: | :---: |
| Slavick, Jeff | Broadcom |  | \# 21 |

Slavick, Jeff Broadcom

Comment Type TR Comment Status X
This is a 10GBASE-R and 25GBASE-R RS-FEC sub clause, there is no longer a
25GBASE-R RS-FEC. So the service interface definition is based upon the usage case.
SuggestedRemedy
Change "The 25GBASE-R FEC" to "For 25GBASE-R PHYs the FEC" in the first sentence of the first paragraph.
Remove 25GBASE-R from the 3rd and 4th paragraphs
Proposed Response Response Status 0

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line
$\begin{array}{ll}\text { Pa } 49 \\ L i & 9\end{array}$

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| Cl $\mathbf{1 0 8}$ SC $\mathbf{1 0 8 . 3}$ | P50 | L4 | \# 26 |
| :--- | :---: | :---: | :---: |
| Slavick, Jeff |  | Broadcom |  |
| Comment Type | TR | Comment Status X |  |



| Cl 108 | $S C$ | 108.6.3 | P53 | L1 |
| :--- | ---: | ---: | ---: | ---: |
|  |  |  | \# 10 |  |

Dawe, Piers Nvidia

Comment Type Comment Status X
Should RS-FEC Enable be mandatory for these PHYs? 802.3by introduced it, 802.3cc didn't modify it.

SuggestedRemedy

Proposed Response Response Status 0

| CI $108 \quad$ SC 108.7.4.2 | P55 | L9 | \# 31 |
| :--- | :---: | :---: | :---: |
| Anslow, Pete | Independent |  |  |

Comment Type ER Comment Status X
For item RF3 the status "BEC*(SR or LR or ER):M" should be "BEC*(SR or LR or ER or BR20):M"

SuggestedRemedy

Proposed Response
Response Status 0


TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line
$\begin{array}{ll}\text { Pa } & 59 \\ \text { Li } & 6\end{array}$

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TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line
$\begin{array}{ll}\text { Pa } & 71 \\ \text { Li } & 13\end{array}$

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3802.3cp D2.2 BiDi 10, 25, and $50 \mathrm{~Gb} / \mathrm{s}$ Optical Access PHYs 2nd Working Group recirculation ballot com

| Cl 158 | SC 158.8.2 | P71 | L38 | Nvidia |
| :--- | ---: | ---: | ---: | ---: |


| Dawe, Piers | $\quad$ Nvidia |  |
| :--- | :--- | :--- |
| Comment Type | E | Comment Status $\mathbf{X}$ |

"the test pattern defined in Table 158-11": but the test patterns definitions are in Table 158-
10. They are identified, listed, specified or given in Table 158-11. Section 8 uses a mixture of "defined" (old way) and "specified" (new way).

## SuggestedRemedy

Change "defined" to "specified" here, in 158.8.3, 158.8.4 and 158.8.7. Similarly in 159 and 160.

Proposed Response Response Status 0

| Cl 158 | SC 158.8.1 | P72 | L6 | \# |
| :--- | ---: | ---: | ---: | :--- |
| Dawe, Piers |  | Nvidia |  |  |
| Comment Type | E | Comment Status X |  |  |

Comment Type E Comment Status X
Table layout

## SuggestedRemedy

Make the table wider so that each entry fits in one row, like tables 159-9 and 160-10
Proposed Response Response Status 0

| Cl 158 | SC 158.8.6 | P72 | L 39 | \# 15 |
| :--- | ---: | ---: | ---: | ---: |

Dawe, Piers Nvidia

Comment Type $\mathbf{E} \quad$ Comment Status $\mathbf{X}$
If there is only one entry in a list, we don't need a list
SuggestedRemedy
Change
"with the following exception
a) The optical return loss shall be"
to "with the exception that the optical return loss shall be"
Proposed Response Response Status 0

| Cl 158 | SC 158.8.7 | P72 | L48 |
| :--- | ---: | ---: | ---: |
| Dawe, Piers | Nvidia |  | \# |

Comment Type TR

Comment Status X
corner bandwidth and filter nominal reference frequency fr are wrong for $10 \mathrm{~Gb} / \mathrm{s}$.
SuggestedRemedy

Proposed Response Response Status 0

| Cl 158 | SC 158.8.9 | P73 | \#33 | 17 |
| :--- | :--- | :--- | :--- | :--- |

Dawe, Piers Nvidia

Comment Type TR Comment Status X
The amount of applied sinusoidal jitter in Table $158-12$ is wrong for $10 \mathrm{~Gb} / \mathrm{s}$.
SuggestedRemedy

Proposed Response Response Status O
Cl 160 SC 160.6.1 $\quad$ P113
Dawe, Piers Nvidia

Comment Type TR Comment Status X
It is very unwise to delete the limit on $\mathrm{K}=10 \log 10(\mathrm{Ceq})$, and also unwise to to add the over/under-shoot and transmitter power excursion (max) limits (see the latest P802.3cu
draft). These three limits protect the receiver from different stressful signals that the ideal
reference receiver with infinite resolution and perfect linearity reports have acceptable
TDECQ, but real receivers designed to realistic cost and power objectives struggle with

## SuggestedRemedy

Reinstate the limit on $\mathrm{K}=10 \log 10$ (Ceq).
Add over/under-shoot and transmitter power excursion (max) limits as in the latest P802.3cu draft.
Proposed Response Response Status 0

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line

Pa 113
Li 28

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TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line

