

## IEEE 802.3dk D3.2 Bidirectional 100Gb/s Optical Access PHYs 2nd Sponsor recirculation ballot comments

Cl 45	SC 45.2.1.6	P20	L 13	# R2-17
Ran, Adeo		Cisco Systems, Inc.		
Comment Type	ER	Comment Status A		
"Editor's note: 101000xx, 1001xxxx, 10001xxx, and 1000011x are reserved by IEEE 802.3dj."				
Editor's notes are common in drafts but are not included in the published standard.				
This text is not formatted as an editor's note, and it is not stated that it should be removed before publication.				
SuggestedRemedy				
Move the quoted text into an Editor's note box (Table) and add "(to be removed prior to publication)".				
Response	Response Status C			
ACCEPT IN PRINCIPLE.				
Implement suggested remedy with editorial license.				

Cl 45	SC 45.2.1.145a	P24	L 16	# R2-18
Dawe, Piers J G		NVIDIA		
Comment Type	E	Comment Status A		
Unless one reads the definition of the individual bits, the introductory text for this new register could cause confusion. It is not clear enough that a PMA in 100GAUI-1 has some precoding ability however this register is set, and the PMD-PMA interface for 100GBASE-DR has no precoding ability however this register is set. Also, as this applies to a particular PHY type, there should be a cross-reference to the relevant PMD clause.				
SuggestedRemedy				
Add a sentence and note (here, because it applies to the whole table): "This register applies to a PMA in 100GBASE-BRx only (see 168.1). NOTE--For other PHY types, precoding ability, or the lack of it, is specified by rule (see 135.5.7.2, for example).				
Response	Response Status C			
ACCEPT IN PRINCIPLE. Add "This register applies to a PMA in 100GBASE-BRx only (see 168.1)" at the end of the paragraph in 45.2.1.145a.  Add a note in 45.2.1.145a as: NOTE--For other PHY types, precoding ability, or the lack of it, is specified by rule (for example, see 135.5.7.2).				
Implement with editorial license.				

Cl 45	SC 45.2.1.145a	P24	L25	# R2-19
Dawe, Piers J G		NVIDIA		
Comment Type	E	Comment Status A		
The language in the table could be better and clearer. "supported" is vague, and the passive voice is undesirable, but Clause 45 was first written using "ability" and "able to" language. This table is to control the state of precoding on the optical path, which is different to PMA precoding in 802.3ck in the context of an optical PHY, where precoding may be used to benefit an AUI but it is not used on the optical path.				
SuggestedRemedy				
Change:				
Precoding is supported by Rx input				
Precoding is not supported by Rx input				
Precoding is supported by Tx output				
Precoding is not supported by Tx output				
to				
PMA Rx input is able to remove precoding				
PMA Rx input is not able to remove precoding				
PMA Tx output is able to apply precoding				
PMA Tx output is not able to apply precoding				

<b>Response</b>	<b>Response Status C</b>
ACCEPT.	

Cl 45	SC 45.2.1.145a.1	P24	L35	# R2-22
Dawe, Piers J G		NVIDIA		
Comment Type	E	Comment Status A		
This language could be better and clearer. "supported" is vague, and the passive voice is undesirable, but Clause 45 was first written using "ability" and "able to" language. These bits are to control the state of precoding on the optical path, which is different to PMA precoding in 802.3ck in the context of an optical PHY, where precoding may be used to benefit an AUI but it is not used on the optical path.				
Subclause number should not be preceded by "Clause".				
SuggestedRemedy				
Change:				
When read as a one, bit 1.607.1 indicates that the precoding described in Clause 135.5.7.2 is supported by Rx input. When read as a zero, bit 1.607.1 indicates that the precoding described in Clause 135.5.7.2 is not supported by Rx input.				
to				
When read as a one, bit 1.607.1 indicates that the PMA Rx input is able to remove precoding (decoding, see 135.5.7.2). When read as a zero, bit 1.607.1 indicates that the PMA Rx input is not able to remove precoding.				
Response	Response Status C			
ACCEPT.				

# EEE 802.3dk D3.2 Bidirectional 100Gb/s Optical Access PHYs 2nd Sponsor recirculation ballot comments

Cl 45 SC 45.2.1.145a.2 P24 L41 # R2-23

Dawe, Piers J G

NVIDIA

Comment Type E Comment Status A

This language could be better and clearer. "supported" is vague, and the passive voice is undesirable, but Clause 45 was first written using "ability" and "able to" language. These bits are to control the state of precoding on the optical path, which is different to PMA precoding in 802.3ck in the context of an optical PHY, where precoding may be used to benefit an AUI but it is not used on the optical path.

Subclause number should not be preceded by "Clause".

## SuggestedRemedy

Change:

When read as a one, bit 1.607.0 indicates that the precoding described in Clause 135.5.7.2 is supported by Tx output. When read as a zero, bit 1.607.0 indicates that the precoding described in Clause 135.5.7.2 is not supported by Tx output.

to

When read as a one, bit 1.607.0 indicates that the PMA Tx output is able to apply precoding (see 135.5.7.2). When read as a zero, bit 1.607.0 indicates that the PMA Tx output is not able to apply precoding.

Response Response Status C

ACCEPT.

Cl 80 SC 80.1.4 P34 L6 # R2-3

Ran, Adee

Cisco Systems, Inc.

Comment Type ER Comment Status A

The title of Table 80-1 is changed from "40 Gb/s and 100 Gb/s PHYs" but it is not marked.

The new Table 80-1a is inserted, not changed, so underlining is not needed. Similarly in Table 80-7a.

## SuggestedRemedy

In Table 80-1 include the original table name, strike out "and 100 Gb/s".

In Table 80-1a and Table 80-7a, remove the underline format.

Response Response Status C

ACCEPT.

Cl 80 SC 80.2.3 P38 L43 # R2-4

Ran, Adee

Cisco Systems, Inc.

Comment Type ER Comment Status A

The changes in the first paragraph are not marked.

It seems that "100GBASE-LR1, and 100GBASE-ZR PHYs" is being changed to "100GBASE-LR1, 100GBASE-BRx, and 100GBASE-ZR PHYs".

Also in 80.2.5 and maybe other places.

## SuggestedRemedy

Apply underline and strikethrough format to the text to show the change from the base standard.

Apply in 80.2.5 and elsewhere as necessary.

Response Response Status C

ACCEPT IN PRINCIPLE.

Implement suggested remedy with editorial license.

Cl 80 SC 80.2.3 P38 L43 # R2-24

Dawe, Piers J G

NVIDIA

Comment Type E Comment Status A

The changes vs. the base standard should be shown (in black)

## SuggestedRemedy

Underline "100GBASE-BRx,"

Similarly in 80.2.5, possibly more

Response Response Status C

ACCEPT IN PRINCIPLE.

Implement suggested remedy with editorial license.

Cl 80 SC 80.2.5 P38 L47 # R2-6

Ran, Adee

Cisco Systems, Inc.

Comment Type E Comment Status A

Missing closing parentheses

## SuggestedRemedy

change "(PMD" to "(PMD)"

Response Response Status C

ACCEPT.

## IEEE 802.3dk D3.2 Bidirectional 100Gb/s Optical Access PHYs 2nd Sponsor recirculation ballot comments

CI 80 SC 80.4 P40 L31 # R2-5

Ran, Adeo Cisco Systems, Inc.

Comment Type ER Comment Status A

The changes to footnotes a and b of Table 80–7 seem to be deletions of the existing text and replacement by new text, but the new text is not underlined.

Also, the table is amended by 802.3ck and 802.3db.

SuggestedRemedy

Apply underline and strikethrough correctly for these footnotes.

Include "as amended by" in the editorial instruction.

Response Response Status C

ACCEPT IN PRINCIPLE.

Mark the new text in footnotes a and b of Table 80-7 as underlined.

Add " (as modified by IEEE Std 802.3ck-2022 and IEEE Std 802.3db-2022) " in the editorial instruction of CL80.4.

Implement with editorial license.

CI 135 SC 135.5.7.2 P50 L30 # R2-7

Ran, Adeo Cisco Systems, Inc.

Comment Type E Comment Status A

The second sentence "The PMA may provide  $1/(1+D)$  mod 4 decoding capability on each input lane" is independent of the first one. It would be clearer if placed in a separate paragraph.

SuggestedRemedy

break the quoted sentence into a separate paragraph.

Response Response Status C

ACCEPT.

CI 157 SC 157.1.2 P53 L15 # R2-8

Ran, Adeo Cisco Systems, Inc.

Comment Type E Comment Status A

In Figure 157-1, the labels "25GMII, 50GMII, or CGMII" and "25GBASE-R, 50GBASE-R, or 100GBASE-R PCS" are modified from the base standard.

SuggestedRemedy

Apply underlining as necessary

Response Response Status C

ACCEPT IN PRINCIPLE.

Implement suggested remedy with editorial license.

CI 157 SC 157.2.1 P54 L37 # R2-9

Ran, Adeo Cisco Systems, Inc.

Comment Type TR Comment Status A

"50GMII" is still relevant and should not be deleted.

SuggestedRemedy

remove the strikethrough from "50GMII".

Response Response Status C

ACCEPT.

CI 157 SC 157.4 P56 L25 # R2-10

Ran, Adeo Cisco Systems, Inc.

Comment Type E Comment Status A

In the draft there are two subclauses, 157.4.1 and 157.4.2, which do not appear in the base standard (802.3-2022).

The insertion of two subclauses should be stated in the editorial instruction, and the titles should be underlined.

Also, the editorial instruction says "(unchanged contents are not shown)" but it seems that the whole content of 157.4 s included.

SuggestedRemedy

Change the editorial instruction to

"Change Clause 157.4 as shown, including additional subclause headings 157.4.1 and 157.4.2."

Format the new headings in underline.

Response Response Status C

ACCEPT.

## IEEE 802.3dk D3.2 Bidirectional 100Gb/s Optical Access PHYs 2nd Sponsor recirculation ballot comments

CI 161 SC 161.6.10a P58 L27 # R2-12

Ran, Adeo Cisco Systems, Inc.

Comment Type T Comment Status A

100G\_RS\_FEC\_Int\_ability is a variable defined in clause 161 to indicate support of clause 161.

This self reference is problematic: if clause 161 is not implemented then the variable does not exist. If it is implemented, then the value should always be one (constant, not variable).

The only place that 100G\_RS\_FEC\_Int\_ability is mentioned is in Table 161-2. There is an MDIO bit in 45.2.1.117.7a indicating RS-FEC-Int ability; that subclause does not refer to the 100G\_RS\_FEC\_Int\_ability variable or to 161.6.10a, so the variable is not needed there.

Note that a similar situation exists for the BASE-R FEC, for which there is a FEC capability variable in 74.8.1. However, in that subclause the variable is explicitly defined as belonging to the PHY rather than to the FEC sublayer. This means the variable should have been defined outside of the FEC subclause, e.g. in the PMD subclauses that define the PHY structure. This is an editorial mistake that should not be repeated.

*SuggestedRemedy*

Delete subclause 161.6.10a.

In Table 161-2, delete "100G\_RS\_FEC\_Int\_ability" from the FEC variable column, leaving the cell empty.

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete subclause 161.6.10a.

In Table 161-2, delete "100G\_RS\_FEC\_Int\_ability" from the FEC variable column, leaving the cell empty.

In 73.6.5.a,

Change "For 100GBASE-P PHYs that include RS-FEC-Int (see Clause 161) in addition to RS-FEC (see Clause 91)" to "For 100GBASE-P PHYs with Auto-Negotiation that include RS-FEC-Int (see Clause 161) in addition to RS-FEC (see Clause 91)".

In 161.1.1, Scope, change:

"This clause specifies a Reed-Solomon forward error correction codeword-interleaved (RS-FEC-Int) sublayer for some 100GBASE-P PHYs."

to

"This clause specifies a Reed-Solomon forward error correction codeword-interleaved (RS-FEC-Int) sublayer for 100GBASE-KR1 and 100GBASE-CR1 (see Table 80-3a) and 100GBASE-BRx (see Table 80-5)."

Change the second paragraph of 80.2.3, Forward error correction (FEC) sublayers, as follows:

"The BASE-R FEC (see Clause 74) is instantiated for each PCS lane and operates autonomously on a per PCS lane basis. The Reed-Solomon FEC (RS-FEC, see Clause 91) is instantiated once and requires 20 PCS lanes and 4 PMA lanes for

operation. The Reed-Solomon forward error correction codeword-interleaved FEC (RS-FEC-Int, see Clause 161), if present, is instantiated once, and also requires 20 PCS lanes and 4 PMA lanes for operation. It is part of 100GBASE-CR1 and 100GBASE-KR1, and optionally part of 100GBASE-BRx (see 168.1.2). It is not applicable to other PHY types. The SC-FEC (see Clause 153) is instantiated once and requires 20 PCS lanes and 20 PMA lanes for operation."

Implement with editorial license.

CI 161 SC 161.6.10a P58 L30 # R2-11

Ran, Adeo Cisco Systems, Inc.

Comment Type TR Comment Status A

"When 100G\_RS\_FEC\_Int\_ability is asserted, this variable indicates the support of RS-FEC-Int defined in Clause 161"

It is not specified what "asserted" means in a variable.

Compare to 161.6.3 (100G\_RS\_FEC\_Int\_enable): "When the 100G\_RS\_FEC\_Int\_enable variable is set to one".

(this comment may be overtaken by events if the subclause is deleted, subject of another comment)

*SuggestedRemedy*

Change "asserted" to "set to one".

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to R2-12.

## IEEE 802.3dk D3.2 Bidirectional 100Gb/s Optical Access PHYs 2nd Sponsor recirculation ballot comments

CI 168 SC 168.1 P60 L16 # R2-2

Ran, Adeo

Cisco Systems, Inc.

Comment Type TR Comment Status A

The description of the optional precoding in footnote e is lacking crucial detail: As in the case of RS-FEC-Int (footnote d), it has to be supported by both link partners, and configured to the same setting in the transmitter of one link partner and the receiver of the other (and furthermore, different settings can be used in each direction).

Since there is no link training over the medium, this configuration needs to be done by the network operator through station management (e.g. MDIO). This requirement is unique to 100GBAS-BRx, so readers should not be expected to know it; and it is not written explicitly anywhere in this amendment.

Having this information in a footnote to a table of clauses is not the best way to inform readers.

Comment R1-23 suggested adding a new subclause with a detailed description, but its disposition did not add such a subclause.

Similar requirements (but not the same) apply to the use of RS-FEC-Int (without auto-negotiation), and are also worth mentioning explicitly.

These are new requirements, so new text has to be written.

#### SuggestedRemedy

Add two new subclauses under 168.1 ("Overview") after 168.1.1 ("Bit error ratio") as follows:

<BEGIN>

168.1.2 Reed-Solomon forward error correction codeword-interleaved (RS-FEC-Int) (optional)

100GBASE-BRx PHYs may include the RS-FEC-Int sublayer specified in Clause 161. If this sublayer is included in both link partners, codeword interleaving can be used to reduce the frame loss ratio (see 168.1.1).

If RS-FEC-Int is implemented, it can be either disabled or enabled. The default setting is disabled.

Operation of a 100GBASE-BRx link requires that the RS-FEC-Int setting (enabled or disabled) be the same in the two link partners.

The criteria for using RS-FEC-Int and the means by which both link partners are configured to the same setting are beyond the scope of the standard.

168.1.3 Precoding (optional)

100GBASE-BRx PHYs may provide PAM4 precoding in the PMA, as specified in 135.5.7.2. If this option is provided in both link partners, precoding can be used to reduce the frame loss ratio (see 168.1.1).

Precoding capability is optional in both PMA input and output. If implemented, it can be either disabled or enabled. The default setting is disabled.

The precoding setting is separate for PMA input and output. Operation of a 100GBASE-BRx link requires that the precoding setting (enabled or disabled) be the same in the PMA

output of one link partner and in the PMA input of the other link partner.

The criteria for using precoding and the means by which the PMAs on both link partners are configured appropriately are beyond the scope of the standard.

<END>

In addition:

In Table 168-1, delete footnotes d and e (or change them to just refer to the new subclauses).

In 168.1.1, change "(Clause 91)" to "(Clause 91 or Clause 161)".

Response

Response Status C

ACCEPT IN PRINCIPLE.

Implement suggested remedy with editorial license.

CI 168 SC 168.5.4 P64 L37 # R2-1

Rolfe, Benjamin

Blind Creek Associates

Comment Type TR Comment Status A

Regarding R1-18: The SDG failed to address the comment. The comment is: "Not completely sure what this means: "SIGNAL\_DETECT shall be a global indicator of the presence of the optical signal" but I think this is a simple statement of consequence when the requirement conditions in Table 168-4 are met."

Citing what is a correct use of "shall" in no way addresses the question raised by the commenter. The group further states they use similar language elsewhere, also not addressing the content of the comment. Either the comment is correct - that this is a statement of fact, not a completely specified requirement, or the comment is incorrect. If the group disagrees with the comment, then an explanation of why would necessary. The group provides no explanation as to why the comment is technically incorrect (such as a reference to where the missing technical specification is to be found).

#### SuggestedRemedy

Change "shall be" to "is".

Response

Response Status C

ACCEPT IN PRINCIPLE.

Change "shall be" to "is".

In CL168.11.4.2, change the value/comment cell of F11 to "As defined in Table 168-4".

Implement with editorial license.

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: Clause, Subclause, page, line

CI 168

SC 168.5.4

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# IEEE 802.3dk D3.2 Bidirectional 100Gb/s Optical Access PHYs 2nd Sponsor recirculation ballot comments

Cl 168	SC 168.6.1	P66	L17	# R2-13
Ran, Adee		Cisco Systems, Inc.		
Comment Type	TR	Comment Status	A	
<p>"Editor's note: BR20 spec adjustment was done to increase OMAouter tolerance between min and max values."</p> <p>Editor's notes are common in drafts but are not included in the published standard. This text is not formatted as an editor's note, and it is not stated that it should be removed before publication.</p> <p>Looking at the text, it seems to try to explain why BR20 OMA_outer and other power parameters are lower than both BR10 and BR40 (which is counter intuitive, and subject of another comment). If this is true, some kind of explanation should probably be kept in the published standard, but in the form of an informative NOTE.</p> <p><i>SuggestedRemedy</i></p> <p>Either move the quoted text into an "Editor's note" box (table) and add "(to be removed prior to publication)", or delete it now.</p> <p>If the intent is to explain the unexpected lower power parameters of BR2, add a NOTE at the end of 168.6.2 stating the reasoning clearly - something like "NOTE-The average launch power (min and max), and OMA_outer (min and max), and transmitter power excursion (max) for 100GBASE-BR20 are lower than the corresponding limits for 100GBASE-BR10 and 100GBASE-BR40. The reason for that is &lt;...&gt;"</p>				
Response	Response Status C			
ACCEPT IN PRINCIPLE.				
Delete the Editor's note in 168.6.1.				

Cl 168	SC 168.6.1	P66	L38	# R2-14
Ran, Adee		Cisco Systems, Inc.		
Comment Type	TR	Comment Status	R	
<p>The average launch power (min and max), and OMA_outer (min and max), and transmitter power excursion (max) for 100GBASE-BR20 are lower than the corresponding limits for 100GBASE-BR10 and 100GBASE-BR40.</p> <p>This is suspicious and inconsistent with Table 160-6 where the values of these limits for 50GBASE-BR20 are between those of 100GBASE-BR10 and 100GBASE-BR40.</p> <p>I noticed in clause 158 and 159 (10GBASE-BRx and 25GBASE-BRx) there is a similar situation, but at least in clause 158 this may be explained because BR20 uses RS-FEC while BR10 and BR40 don't. For clause 159 I could not find an explanation in the text.</p> <p>The implication of these values seems to be that a compliant BR20 transmitter may not interoperate with a compliant BR10 receiver over a &lt;10 km distance, because its launch power is allowed to be much lower than that of a BR10 transmitter for the same link budget. While there is no explicit statement that such interoperability is possible, it seems to be expected, because the ranges in Table 168-5 overlap.</p> <p>The suggested remedy is based on the assumption that these limit values should be in the logical order (as in clause 160). However, If the existing values are a conscious choice, some reasoning should be provided, preferably in an informative NOTE.</p> <p><i>SuggestedRemedy</i></p> <p>Swap the values of launch power (min and max), and OMA_outer (min and max), and transmitter power excursion (max) in the column for BR20 with the ones in the column for BR10.</p> <p>If compliant BR20 and BR10 are not guaranteed to interoperate over a &lt;10 km distance, please indicate that clearly, preferably both in clause 168 and in clause 157, and consider adjusting the ranges in Table 168-5.</p> <p>If the values are okay and interoperability is guaranteed, please provide the explanation (which I can't suggest) in an informative NOTE.</p>				
Response	Response Status C			
<p>REJECT.</p> <p>This comment is outside the scope of the second SA recirculation. There are no changes to BR10, BR20, and BR40 specs since draft D3.0.</p> <p>These specs are not technically broken. The BR20 and BR40 parameters are designed for an APD based receiver, while the BR10 parameters are based on PIN receiver. Therefore, the launch powers of BR10 are higher than those in BR20. This design principle was agreed as Motion #4 in March 2024 meeting (<a href="https://www.ieee802.org/3/dk/public/2404/2403_8023dk_approved_minutes.pdf">https://www.ieee802.org/3/dk/public/2404/2403_8023dk_approved_minutes.pdf</a>).</p> <p>On interop, PHYs defined in the same clause with similar names are not required to be interoperable, for example, PHYs in the same clause that don't inter-operate are in 802.3dj 800GBASE-FR4 and 800GBASE-LR4.</p>				

## IEEE 802.3dk D3.2 Bidirectional 100Gb/s Optical Access PHYs 2nd Sponsor recirculation ballot comments

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**Cl 168**    **SC 168.6.3**    **P68**    **L25**    # **R2-15**

Ran, Adee

Cisco Systems, Inc.

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

"Editor's note: call for further check of the penalty values."

Editor's notes are common in drafts but are not included in the published standard.

This text is not formatted as an editor's note, and it is not stated that it should be removed before publication.

I assume such further check is not required anymore and the sentence can be deleted.

**SuggestedRemedy**

Delete the quoted sentence.

Alternatively, make it an Editor's note box (table) and add "(to be removed prior to publication)".

**Response**    **Response Status**    **C**

ACCEPT IN PRINCIPLE.

Delete the Editor's note in 168.6.3.

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**Cl 168**    **SC 168.7.5**    **P70**    **L27**    # **R2-20**

Dawe, Piers J G

NVIDIA

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

The editor's note at line 27 saying "tap weight limits will be added in alignment with IEEE P802.3 dj" is obsolete now.

**SuggestedRemedy**

Delete it

**Response**    **Response Status**    **C**

ACCEPT.

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**Cl 168**    **SC 168.7.5**    **P70**    **L52**    # **R2-21**

Dawe, Piers J G

NVIDIA

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

The resolution to D3.1 comment R1-37 says:

ACCEPT IN PRINCIPLE.

Add a bullet after line 50 in page 71:

The tap coefficient limits: the \*coefficients\* of the tap before (pre-cursor) and after (post-cursor) the tap with the largest magnitude tap (cursor) coefficient are less than 0.1. The coefficient of \*post-cursor minus pre-cursor\* is less than 0.15.

See contribution 3dk\_dawe\_2511\_1.

[https://www.ieee802.org/3/dk/public/2511/3dk\\_dawe\\_2511\\_1.pdf](https://www.ieee802.org/3/dk/public/2511/3dk_dawe_2511_1.pdf)

Implement with editorial license.

D3.2 says:

The cursor is the tap with the largest magnitude coefficient \*and is used as the basis of normalization\*.

The magnitude of the pre-cursor (the tap before the cursor) \*normalized\* coefficient is less than 0.1.

The magnitude of the post-cursor (the tap after the cursor) \*normalized\* coefficient is less than 0.1.

The \*magnitude of the difference\* between the \*normalized\* coefficients of the post-cursor and pre-cursor is less than 0.15.

This is not correct. In 100G, ECQ coefficients are not normalized to the cursor (although their sum is 1). The post-cursor should not be much more +ve than the pre-cursor but it is acceptable for the post-cursor to be much more -ve than the pre-cursor.

**SuggestedRemedy**

Change the quoted text to:

The cursor is the tap with the largest magnitude coefficient.

The magnitude of the pre-cursor (the tap before the cursor) coefficient is less than 0.1.

The magnitude of the post-cursor (the tap after the cursor) coefficient is less than 0.1.

The post-cursor coefficient minus the pre-cursor coefficient is less than 0.15.

**Response**    **Response Status**    **C**

ACCEPT.

# IEEE 802.3dk D3.2 Bidirectional 100Gb/s Optical Access PHYs 2nd Sponsor recirculation ballot comments

CI 168 SC 168.7.5 P71 L25 # R2-16

Ran, Adeel Cisco Systems, Inc.

Comment Type TR Comment Status A

"Editor's note: tap weight limits will be added in alignment with IEEE P802.3 dj."  
 Editor's notes are common in drafts but are not included in the published standard.  
 This text is not formatted as an editor's note, and it is not stated that it should be removed before publication.

Note that P802.3dj is not in SA ballot yet and is expected to be published much later than P802.3dk. This project cannot wait for 802.3dj...  
 Are the updates made in D3.2 final?

Suggested Remedy

Delete the quoted text.

Response Response Status C

ACCEPT.