# IEEE P802.3cw D1.5 400 Gb/s over DWDM systems 6th Task Force review comments

<table>
<thead>
<tr>
<th>Cl</th>
<th>FM</th>
<th>SC</th>
<th>FM</th>
<th>P</th>
<th>L</th>
<th>#</th>
<th>Comment Type</th>
<th>Comment Status</th>
<th>Comment</th>
<th>Response</th>
<th>Response Status</th>
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<tbody>
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<td>ER</td>
<td>X</td>
<td>With P802.3/D3.2 at RevCom, it is appropriate to update the cw draft for consistency with IEEE Std 802.3-202x. The draft is currently inconsistent, in some places recognizing that it will not be an amendment to the 2018 revision, and in many places assuming it will be an amendment to the 2018 revision.</td>
<td></td>
<td>Grow, Robert</td>
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<td>E</td>
<td>X</td>
<td>To someone not active on the project, content of Clauses 155 and 156 look like they may be based on other clauses.</td>
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<td></td>
<td>ER</td>
<td>X</td>
<td>Misuse of acronym PHY (see P802.3/D3.2, 1.5.</td>
<td></td>
<td>Grow, Robert</td>
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<td></td>
<td>E</td>
<td>X</td>
<td>IEEE page numbering style has changes no more Roman numeral front matter numbering.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SuggestedRemedy**

- Multiple comments have been submitted but time does not allow this commenter to review all at this time. Editors should update draft for consistency with P802.3/D3.2 as the base document and include the current six amendments assigned numbers (as recognized in front matter), and any other amendments expected to be approved prior to this project.
- Editor's might want to look at changes made during the revision to clauses on which Clauses 155 and 156 are based to look for other style changes. Examples I searched on and commented include capitalization of register, elimination of must, misuse of "PHY", but I am less sure of how correcting misuse of "comprise" and "comprising" and "implementer" were handled in P802.3.
- Some information in this copyright block has been updated.
- IEEE page numbering style has changes no more Roman numeral front matter numbering.

**Proposed Response**

- Review all comments and update draft for consistency with P802.3/D3.2 as the base document and include the current six amendments assigned numbers (as recognized in front matter), and any other amendments expected to be approved prior to this project.
- Review changes made during the revision to clauses on which Clauses 155 and 156 are based to look for other style changes. Examples include capitalization of register, elimination of must, misuse of "PHY", but I am less sure of how correcting misuse of "comprise" and "comprising" and "implementer" were handled in P802.3.
- Replace the IEEE-SA front matter with that found in a current template.
IEEE P802.3cw D1.5 400 Gb/s over DWDM systems 6th Task Force review comments

Comment Type   ER    Comment Status X
This isn't the current IEEE SA mandated front matter.

SuggestedRemedy
Replace the IEEE-SA front matter with that found in a current template.

Proposed Response

Grow, Robert  
RMG Consulting

Comment Type   ER    Comment Status X
This is not the current FM Introduction (e.g., first paragraph and Section Nine have been modified at a minimum).

SuggestedRemedy
Get current Introduction from P802.3/D3.2.

Proposed Response

Grow, Robert  
RMG Consulting

Comment Type   E
Typo.

SuggestedRemedy
Replace "04" with "104".

Proposed Response

Grow, Robert  
RMG Consulting

Comment Type   E
Not the current P802.3/D3.0 self description.

SuggestedRemedy
Update with the current P802.3de self description (D3.0 or later as appropriate.)

Proposed Response

Grow, Robert  
RMG Consulting

Comment Type   ER    Comment Status X
Will cw really be Amendment 7? There are three projects targeting June 2023 RevCom ahead of cw. While I have no issue with writing your amendment as if it will be #7 for now, I would not put a number here just now.

SuggestedRemedy
Amendment x, Amendment ?, or similar.

Proposed Response

Grow, Robert  
RMG Consulting

Comment Type   E
"Insert the following two new definitions after 1.4.144a "400GBASE-VR4" (as inserted by IEEE Std 802.3db-202x):"

Proposed Response

Grow, Robert  
RMG Consulting

Comment Type   E
"...,after 400GBASE-VR4 (inserted by IEEE Std 802.3db-202x)..."

Proposed Response

Grow, Robert  
RMG Consulting

Comment Type   E

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 Z/withdrawn
SORT ORDER: Clause, Subclause, page, line
IEEE P802.3cw D1.5 400 Gb/s over DWDM systems 6th Task Force review comments

Cl 45 SC 45.2 P 23 L 3 # 6
Grow, Robert RMG Consulting
Comment Type ER Comment Status X
Base text error.

Suggested Remedy
P802.3/D3.2 has this "MIDO Interface registers"

Proposed Response Response Status O

Cl 78 SC 78.1.4 P 29 L 8 # 17
Grow, Robert RMG Consulting
Comment Type ER Comment Status X
Though I have some experience in 802.3, I do not have the knowledge of PHY type details to provide with confidence where this insert should be. The rules chosen in the resolution of P802.3/D3.0, comment #i-52 are:
1. Increasing speed.
2. Increasing reach (maximum supported distance over the medium).
3. Decreasing number of lanes
The following supplemental rules address are included to address special cases
4. PHY "family designations, by convention, are assigned a reach of 0
5. "Copper" PHYs precede "Fiber" PHYs (all else being equal)
6. Alphanumeric sort (all else being equal)

Suggested Remedy
Using these rules, and consider the 6 400GBASE inserts being done by P802.3db to determine the correct insert point. (I don't think the insert points in P802.3db/D3.0 follow these rules.)

Proposed Response Response Status O

Cl 116 SC 116.1.2 P 31 L 8 # 18
Grow, Robert RMG Consulting
Comment Type ER Comment Status X
P802.3db/D3.0 modifies this list inserting a new item and re-lettering the last item to be "i)"

Suggested Remedy
Change "i) in the editing instruction (also adding a reference to IEEE Std 802.3db-202x) making the new item "j)". Review clause to assure all P802.3db changes are incorporated in instructions and base text that is being modified.

Proposed Response Response Status O

Cl 78 SC 78.1.4 P 29 L 8 # 17
Grow, Robert RMG Consulting
Comment Type ER Comment Status X
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Suggested Remedy
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Proposed Response Response Status O

Cl 116 SC 116.1.2 P 31 L 8 # 18
Grow, Robert RMG Consulting
Comment Type ER Comment Status X
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Suggested Remedy
Change "i) in the editing instruction (also adding a reference to IEEE Std 802.3db-202x) making the new item "j)". Review clause to assure all P802.3db changes are incorporated in instructions and base text that is being modified.

Proposed Response Response Status O

Cl 116 SC 116.1.4 P 28 L 3 # 20
Issenhuth, Tom Huawei
Comment Type E Comment Status X
Insertion point states as modified by IEEE Std 802.3cu-20xx. This document is an amendment to P802.3/D3.2 which includes all modifications from 802.3cu so this reference is no longer valid.

Suggested Remedy
Remove reference to P802.3cu. Review entire document and remove any references to amendments included in P802.3/D3.2 and update references as required for amendments to P802.3/D3.2.

Proposed Response Response Status O

Cl 116 SC 116.1.4 P 28 L 6 # 21
Issenhuth, Tom Huawei
Comment Type E Comment Status X
Table 116-4 was changed to 116-5 in P802.3/D3.2. There may be other instances of Table or subclause numbering changing with P802.3/D3.2.

Suggested Remedy
Change Table 116-4 to Table 116-5. Review the entire document and change Table or subclause numbering to align with P802.3 D3.2.

Proposed Response Response Status O
Comment Type: ER  Comment Status: X
Use of the word "must" is deprecated.

Suggested Remedy:
Rewrite to "shall" or other choice of grammar. Also p. 73, l. 43; p. 75, l. 41, 42; p. 85, l. 34; p. 91, l. 35; and p. 94, l. 26.

Proposed Response  Response Status: O

Comment Type: TR  Comment Status: X
faw_valid is TBD

Suggested Remedy:
replace TBD with "8 symbols in a single frame"

Validation methodology to be provided

Proposed Response  Response Status: O

Comment Type: E  Comment Status: X
In Table 156-10 pattern description is stated as "Scrambled idle encoded by SC-FEC". 400GBASE-ZR uses CFEC not SC-FEC

Suggested Remedy:
Change pattern description to read "Scrambled idle encoded by CFEC"

Proposed Response  Response Status: O