Comment Type: E  Comment Status: A  EZ

"The term 10GBASE-AU, specified in Clause 166, refers to a specific Physical Layer implementation based upon 64B/65B coding encapsulated into Reed-Solomon frames that are mapped to NRZ modulation for transmission on glass optical fiber in the automotive environment."

This paragraph is unnecessarily different from the preceding paragraphs - "encapsulated" is an obscure word and "Reed-Solomon frames" is not used in this draft other than in the introduction clauses (RS-FEC codeword is the prevalent term in this draft).

The base text in the preceding paragraph (not included in the amendment) is

"The term 10GBASE-T1, specified in Clause 149, refers to a specific Physical Layer implementation based upon 64B/65B data coding method placed in an RS-FEC frame that is Gray-code mapped to PAM4 for transmission over a single balanced pair of conductors."

Similar language should be used, with the necessary changes.

Suggested Remedy
Change the quoted sentence to

"The term 10GBASE-AU, specified in Clause 166, refers to a specific Physical Layer implementation based upon 64B/65B data coding method placed in RS-FEC codewords that are transmitted using NRZ modulation on glass optical fiber in the automotive environment."

Response  Response Status: C

ACCEPT IN PRINCIPLE.

Comment is out of scope for this recirculation ballot.

Change

"The term 10GBASE-AU, specified in Clause 166, refers to a specific Physical Layer implementation based upon 64B/65B coding encapsulated into Reed-Solomon frames that are mapped to NRZ modulation for transmission over glass optical fiber in the automotive environment."

to

"The term 10GBASE-AU, specified in Clause 166, refers to a specific Physical Layer implementation based upon 64B/65B data coding method placed in RS-FEC codewords that are transmitted using NRZ modulation on glass optical fiber in the automotive environment."

Suggested Remedy
Change the quoted sentence to

"25GBASE-AU uses 64B/65B coding encapsulated into Reed-Solomon frames that are mapped to NRZ modulation for transmission on optical fiber."

As stated in another comment - "encapsulated" is an obscure word and "Reed-Solomon frames" is not used in this draft other than in the introduction clauses (RS-FEC codeword is the prevalent term in this draft).

Also, the fact that an optical fiber is used is already included in the preceding statement - there is no need to repeat it.

The base text in the preceding paragraph (not included in the amendment) is

"The term 10GBASE-T1, specified in Clause 149, refers to a specific Physical Layer implementation based upon 64B/65B data coding method placed in an RS-FEC frame that is Gray-code mapped to PAM4 for transmission over a single balanced pair of conductors."

Similar language should be used, with the necessary changes.

Suggested Remedy
Change the quoted sentence to

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation."

Response  Response Status: C

ACCEPT IN PRINCIPLE.

Comment is out of scope for this recirculation ballot.

Change

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation for transmission on optical fiber."

to

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

Suggested Remedy
Change the quoted sentence to

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

Response  Response Status: C

ACCEPT IN PRINCIPLE.

Comment is out of scope for this recirculation ballot.

Change

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

to

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

Suggested Remedy
Change the quoted sentence to

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

Response  Response Status: C

ACCEPT IN PRINCIPLE.

Comment is out of scope for this recirculation ballot.

Change

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

to

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

Suggested Remedy
Change the quoted sentence to

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

Response  Response Status: C

ACCEPT IN PRINCIPLE.

Comment is out of scope for this recirculation ballot.

Change

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

to

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

Suggested Remedy
Change the quoted sentence to

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

Response  Response Status: C

ACCEPT IN PRINCIPLE.

Comment is out of scope for this recirculation ballot.

Change

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

to

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

Suggested Remedy
Change the quoted sentence to

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

Response  Response Status: C

ACCEPT IN PRINCIPLE.

Comment is out of scope for this recirculation ballot.

Change

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."

to

"25GBASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation in the automotive environment."
<table>
<thead>
<tr>
<th>Comment Type</th>
<th>Comment Status</th>
<th>Suggested Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>A</td>
<td>Change “2.5BASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using NRZ modulation.”</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>ACCEPT IN PRINCIPLE.</td>
</tr>
</tbody>
</table>

Response: Torres, Luis
Knowledge Development for Plastic Optical Fiber

Comment Type: E  Suggested Remedy: Change “25BASE-AU” to “25GBASE-AU”  Response: ACCEPT.
IEEE P802.3cz D3.1 Multi-Gigabit Optical Automotive Ethernet 1st Sponsor recirculation ballot comments

### Comment 125

<table>
<thead>
<tr>
<th>Cl</th>
<th>SC</th>
<th>P56</th>
<th>L22</th>
<th>#</th>
<th>TORRES, LUIS</th>
<th>KNOWLEDGE DEVELOPMENT FOR PLASTIC OPTICAL FIBER</th>
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<tr>
<td>125</td>
<td>125.1.4</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Comment Type**: E  
**Comment Status**: A  
**EZ**: Torres, Luis

**Suggested Remedy**

- Change "2.5BASE-AU" to "2.5GBASE-AU" and "5BASE-AU" to "5GBASE-AU".

**Response**

- **Response Status**: C

- ACCEPT.

### Comment 131

<table>
<thead>
<tr>
<th>Cl</th>
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<th>P59</th>
<th>L7</th>
<th>#</th>
<th>RAN, ADEE</th>
<th>CISCO SYSTEMS, INC.</th>
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<tbody>
<tr>
<td>131</td>
<td>131.1.3</td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**Comment Type**: E  
**Comment Status**: A  
**EZ**: Torres, Luis

**Suggested Remedy**

- "50BASE-AU uses 64B/65B coding encapsulated into Reed-Solomon frames that are mapped to PAM4 modulation for transmission on optical fiber"

- As stated in another comment - "encapsulated" is an obscure word and "Reed-Solomon frames" is not used in this draft other than in the introduction clauses (RS-FEC codeword is the prevalent term in this draft).

- Also, the fact that an optical fiber is used is already included in the preceding statement - there is no need to repeat it.

- **Suggested Remedy**

- Change the quoted sentence to "50BASE-AU uses 64B/65B coding placed into RS-FEC codewords that are transmitted using PAM4 modulation."

**Response**

- **Response Status**: C

- ACCEPT.

### Comment 166

<table>
<thead>
<tr>
<th>Cl</th>
<th>SC</th>
<th>P64</th>
<th>L19</th>
<th>#</th>
<th>RAN, ADEE</th>
<th>CISCO SYSTEMS, INC.</th>
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<tr>
<td>166</td>
<td>166.1.4</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Comment Type**: T  
**Comment Status**: A  
**EZ**: Torres, Luis

**Suggested Remedy**

- PHD information is used also by the PMA sublayer

- **Suggested Remedy**

- Change "it is used by the PCS sublayer" to "it is used by the PCS and PMA sublayers"

**Response**

- **Response Status**: C

- ACCEPT.

**Suggested Remedy**

- On L21, delete "(see Table 166–2)"

- On L24 and on L32, change "as described in Table 166–2" to "using the PHD".

**Response**

- **Response Status**: C

- ACCEPT IN PRINCIPLE.

- Comment is out of scope for this recirculation ballot.

- This page contains four cross-references to Table 166–2. The first one is in a description of the PHD; the last three are about the content of the PHD, and are not really helpful for the reader.

- **Suggested Remedy**

- On L21, delete "(see Table 166–2)"

- On L24 and on L32, change "as described in Table 166–2" to "using the PHD".

- **Response**

- **Response Status**: C

- ACCEPT IN PRINCIPLE.

- Comment is out of scope for this recirculation ballot.

- However, the suggested remedy is accepted.
Different font sizes in NOTE.

SuggestedRemedy

Use the font size defined for NOTE paragraph in the document template.

Response  Response Status  C

ACCEPT.

"as specified in Table 166–2 (see 166.2.2.1.1)."

no need for double reference. Table 166–2 is part of 166.2.2.1.1.

SuggestedRemedy

change to "as specified in 166.2.2.1.1."

Response  Response Status  C

ACCEPT IN PRINCIPLE.

Comment is out of scope for this recirculation ballot. However, the suggested remedy is accepted.

Table 166-2 spans more than one page; the subsequent parts should have "(continued)".

SuggestedRemedy

Set the table continuation variable in this table (and others if necessary) to make the "(continued)" appear.

Response  Response Status  C

ACCEPT IN PRINCIPLE.

Set the Frame Maker table continuation variable in all the tables.
IEEE P802.3cz D3.1 Multi-Gigabit Optical Automotive Ethernet 1st Sponsor recirculation ballot comments

Comment Type E  Comment Status A
The term "three repetition code" appears uncapitalized in its definition in 166.2.2.1.5. It should not be capitalized here.

Suggested Remedy
Remove capitalization from "Three Repetition Code".

Response Response Status C
ACCEPT IN PRINCIPLE.
Comment is out of scope for this recirculation ballot. However, the suggested remedy is accepted.

Comment Type E  Comment Status A
Text is stretched. It seems that it is formatted as justified, and a paragraph break is missing.

Suggested Remedy
Format as necessary to prevent the text stretching.

Response Response Status C
ACCEPT.

Comment Type E  Comment Status A
"Polynomial operations will be used"
"will" is deprecated in standards text. And in this case, the operations are used at the present time.

Suggested Remedy
Change to "Polynomial operations are used".

Response Response Status C
ACCEPT.

Comment Type E  Comment Status A
"as specified in the PCS 64B/65B transmit state diagram (see 166.2.2.9, and Figure 166–16)"
No need for double reference. Figure 166–16 is part of 166.2.2.9 (and its main content).

Suggested Remedy
Change to "as specified in the PCS 64B/65B transmit state diagram (Figure 166–16)"

Response Response Status C
ACCEPT IN PRINCIPLE.
Comment is out of scope for this recirculation ballot. However, the suggested remedy is accepted.

Comment Type E  Comment Status A
"are specified in Table 166–4 for <…>, and Table 166–5 for" Missing "in" before "Table 166–5".

Suggested Remedy
Change "and Table 166–5" to "and in Table 166–5".

Response Response Status C
ACCEPT.

Comment Type E  Comment Status A
"block. The" missing space.

Suggested Remedy
Insert a space

Response Response Status C
ACCEPT.
The first sentence in the definition of LBLOCK_T is badly stretched as a result of justification (apparently it ends with a line break). If it is not a separate paragraph, the text should continue.

Similarly for LBLOCK_R in 166.2.3.7.1.

**SuggestedRemedy**

Delete the line break.

**Response**

Response Status C

ACCEPT.

The "Values" paragraph is badly justified.

Similarly in the definition of T BLOCK_TYPE in 166.2.2.8.3, and several in 166.3.4.1.

**SuggestedRemedy**

Fix the paragraph formats to create the appropriate justification as in similar paragraphs in the base standard.

**Response**

Response Status C

ACCEPT.

Wrong sign in B(z) polynomial (Figure 166-41)

**SuggestedRemedy**

Change "B(z)" to "+B(z)."

**Response**

Response Status C

ACCEPT.
The table was changed to call out temperature classes per i-102, but the names in the table were not changed to match.

**Suggested Remedy**
- Change "Grade 1" to "Class 1".
- Change "Grade 2" to "Class 2".
- Change "Grade 3" to "Class 3".

**Response**

ACCEPT.