Chief Editor’s Report
P802.3dj D1.0

Matt Brown, Alphawave, P802.3dj Editor-In-Chief
Gary Nicholl, Cisco, Logic Track Lead Editor
Adee Ran, Cisco, Electrical Track Lead Editor
Tom Issenhuth, Huawei, Optical Track Lead Editor

IEEE P802.3dj Task Force
May 2024
## Editorial Team

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<th>Editor</th>
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<td>Matt Brown</td>
<td>Chief Editor, clause editor FM, 1, 69, 116, 120, 169, 174</td>
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<td>Gary Nicholl</td>
<td>Logic lead editor; clause editor 118, 119, 170, 171</td>
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<td>Adee Ran</td>
<td>Electrical lead editor; clause editor 120F, 120G, 176E (C2M), 179 (xBASE-CR)</td>
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<td>Tom Issenhuth</td>
<td>Optical lead editor, 185 (800GBASE-LR1), 187 (800GBASE-ER1)</td>
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<td>Arthur Marris</td>
<td>Clause editor 4, 4A, 30, 31B, 45, 73, 73A, 90, 90A</td>
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<tr>
<td>Eugene Opsasnick</td>
<td>Clause editor 175 (1.6TBASE-R PCS)</td>
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<td>Kapil Shrikhande</td>
<td>Clause editor 176 (xBASE-R SM-PMA)</td>
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<td>Xiang He</td>
<td>Clause editor 177 (xBASE-R Inner FEC)</td>
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<td>Leon Bruckman</td>
<td>Clause editor 184 (800GBASE-LR1 Inner FEC), 176A (electrical link training)</td>
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<td>Jeff Slavick</td>
<td>Logic advisor/reviewer</td>
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<td>Howard Heck</td>
<td>Clause editor 178 (xBASE-KR), 176D (C2M)</td>
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<td>Chris Diminico</td>
<td>Clause editor 179 (xBASE-CR cable assembly), 179A/B/C/D</td>
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<td>Adam Healey</td>
<td>Clause editor 178A (COM redux)</td>
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<td>Mike Dudek</td>
<td>Electrical advisor/reviewer</td>
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<td>Tom Huber</td>
<td>Clause editor 186 (800GBASE-ER1 PCS/PMA)</td>
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<td>Peter Stassar</td>
<td>Clause editor 180 (DR PMDs), 181 (FR-500 PMD), 182 (DR-2 PMDs)</td>
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<td>Roberto Rodes</td>
<td>Clause editor 183 (FR4/LR4 PMDs)</td>
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<tr>
<td>John Johnson</td>
<td>Optical advisor/reviewer</td>
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Activities since Draft 1.0

- Created Draft 1.0
- 802.3dj First task force review
  - Opened on 10 April 2024
  - Closed on 2 May 2024
- 613 comments received from 47 reviewers
  - Proposed responses to be posted on ~ 30 May 2024
  - Comment resolution scheduled for
    - 3 to 6 June 2024
    - 10 to 13 June 2024
List of D1.0 reviewers (in addition to editorial team)

We would like to recognize following individuals outside of the editorial team who provided review feedback on the draft prior to posting:

- Nir Sheffi, Alphawave
- Bernd Huebner, Cisco
- Brian Welch, Cisco
- Kishore Kota, Marvell
Comment history by draft number

E/ER = editorial, T/TR = technical, G/GR = general
Comment summary by clause/annex

Comment Distribution by Clause/Annex

E/ER = editorial, T/TR = technical, G/GR = general
Objectives for the comment resolution meeting

● Respond to all comments against D1.0
● Generate D1.1 and initiate second task force review
Approach to comment resolution (same as 802.3df)

The following approach will be utilized for resolving comments…

❖ Review the proposed response
  ➢ Discuss and refine as needed and attempt to close without objection using direction straw polls, as necessary.
  ➢ If no more than two objections (including commenter) to proposed response then consider it to be consensus and close comment.
  ➢ If more than two objections then use decision straw poll(s) to move forward.

❖ Use of a direction straw poll to determine a direction
  ➢ Use the result of the direction straw poll(s) to determine consensus, refine the proposed response, or to craft a decision straw poll.

❖ Use of a decision straw poll to make a final decision.
  ➢ The decision straw poll winner is the option that has more than 50% support.
  ➢ Close the comment based on the winner of the decision straw poll(s).

❖ The editorial team may provide presentations as needed to aid in the resolution of comments.

❖ Individuals are reminded to review “IEEE SA Balloting and Comment Resolution Process Guidelines”
Baseline deficit

- Baselines for all objectives have been adopted.
  - Refinements will be addressed through the task force review process.
- New features being discussed:
  - Optical link training
  - Optical auto-negotiation
Logic specification gaps

- Support for high accuracy timestamping for 800GBASE-ER1 and 800GBASE-ER1-20 PHYs (related to MOPA liaison letter)
  - D1.0 comment #108
  - consensus proposal to address the issue - sluyski_3dj_01_2405
- Encoding examples for 1.6TBASE-R PCS (Clause 175, Annex 175A)
  - D1.0 comments #453 and #455
  - machine readable text files provided - opsasnick_3dj_01_2405
- Encoding examples for xBASE-R SM-PMA (Clause 176, Annex 176C)
  - D1.0 comments #298
  - two contributions - loewenthal_3dj_01a_2405, loewenthal_3dj_02_2405
- Encoding examples for 800GBASE-LR1 Inner FEC (Clause 184, Annex 184A)
  - A contribution proposing test vectors for the 800GBASE-LR1 Inner FEC transmit function is encouraged.
- Encoding examples for 800GBASE-ER1 Inner FEC (Clause 186, Annex 186A)
  - A contribution proposing test vectors for the 800GBASE-ER1 PCS and PMA transmit functions is encouraged.
Electrical specification gaps

- CR: Host channel model and parameters for each host designations; Corresponding Tx parameters ($R_{peak}$, ERL…)
- CR/KR: test channel parameters for receiver tolerance tests
- Requirements for receiver tests - SER? BER? Other?
- C2M: module package model
- COM parameter values and corresponding Tx parameters (partial baselines adopted)
- Jitter methodology and limits for all interfaces
- ERL and return loss limits for all interfaces
- Determine which, if any, PHY types include MLSD in reference receiver.
- MLSD implementation penalty
- Text fixture specification parameter values
- Accounting for test fixture variations
Optical specification gaps

- 200G PAM4 reference receiver definition
- Transmitter quality metric for 800GBASE-LR1/ER1/ER1-20
  - EVM, TCC, or something else
Other specification gaps

- FLR/BER specification methodologies
Summary

- P802.3dj editorial team introduced.
- Draft 1.0 was generated and Task Force Review held.
- Task force review results summarized.
- Baseline status summarized
- Specification gaps summarized
Thanks!