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

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

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:
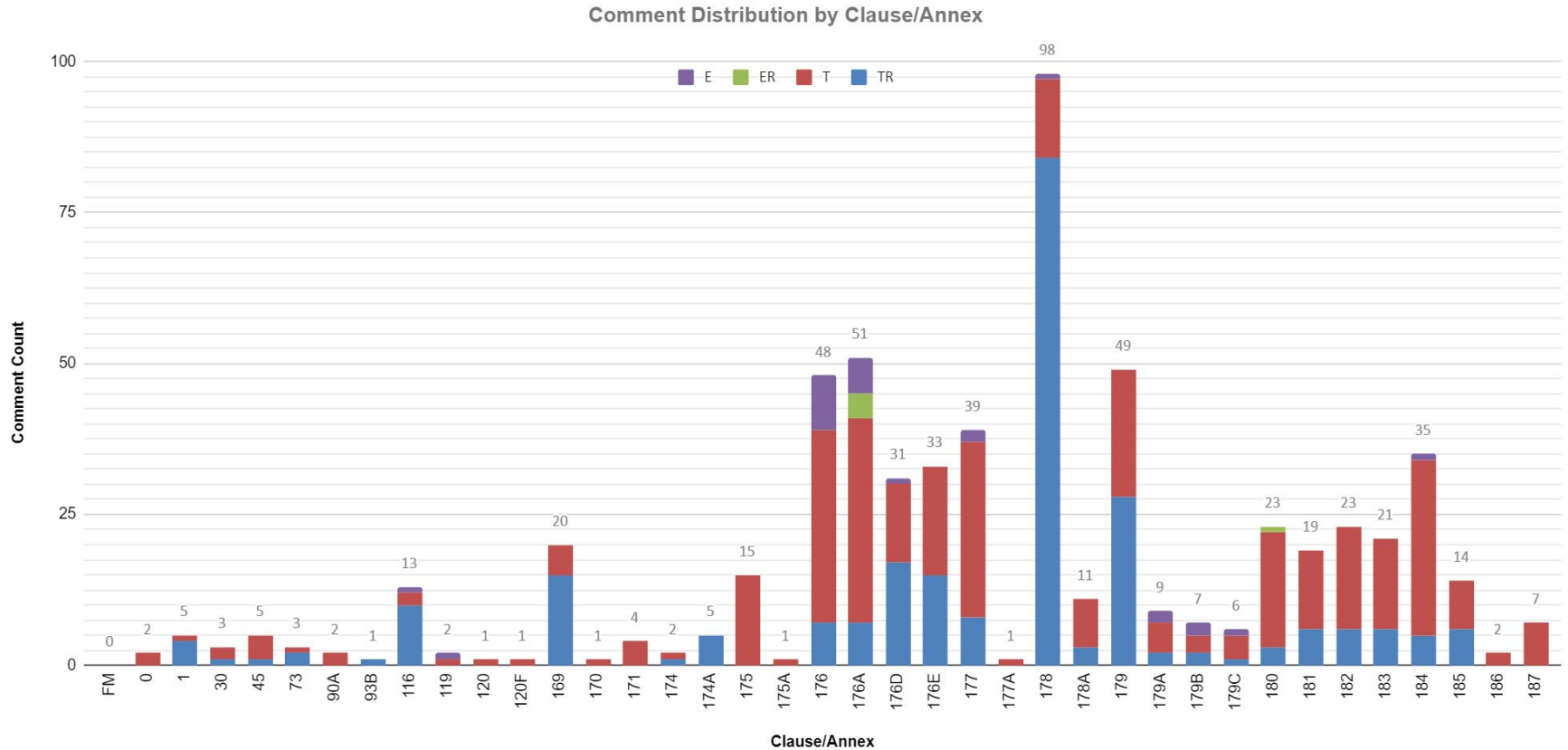
- Nir Sheffi, Alphawave
- Bernd Huebner, Cisco
- Brian Welch, Cisco
- Kishore Kota, Marvell

Comment history by draft number
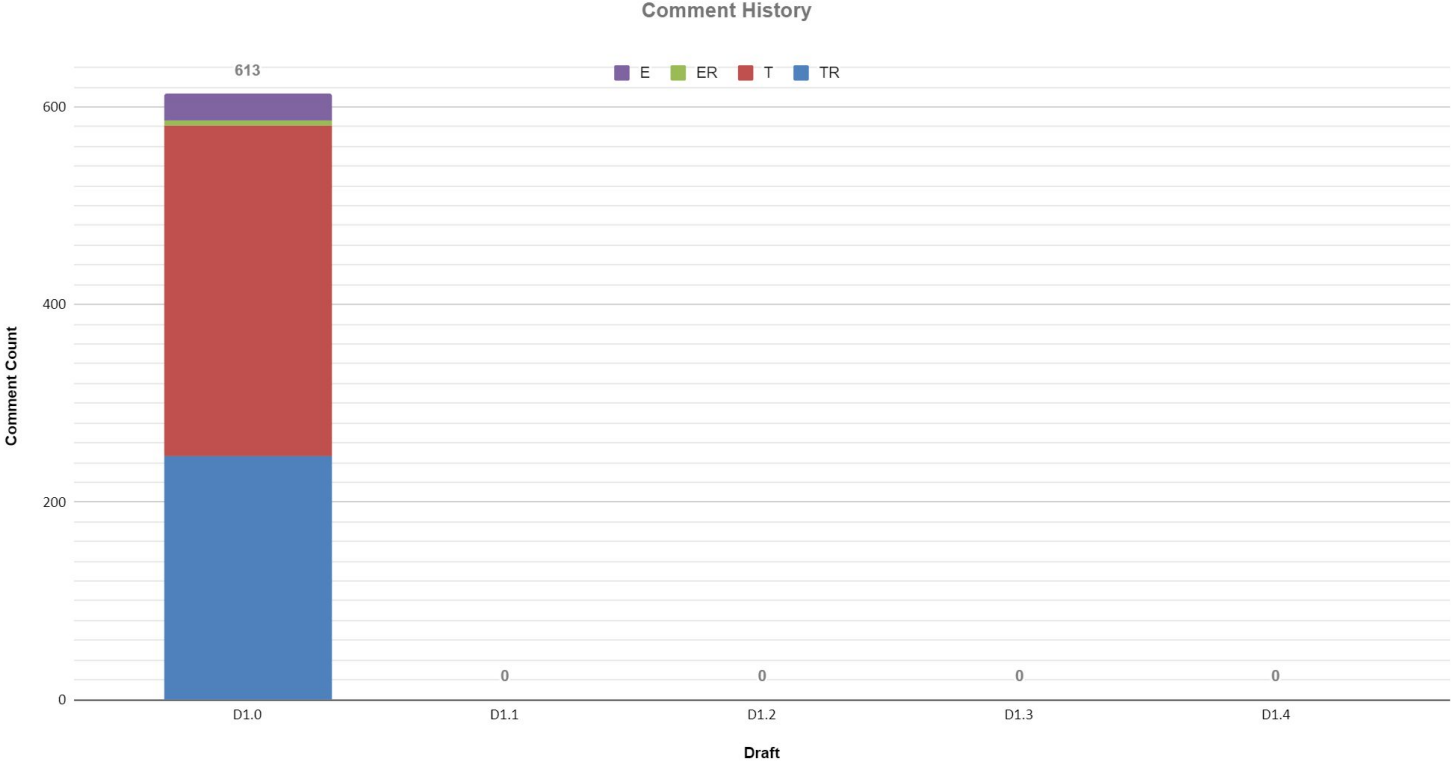
E/ER = editorial, T/TR = technical, G/GR = general

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"
https://standards.ieee.org/wp-content/uploads/import/governance/revcom/guidelines.pdf

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!