

IEEE P802.3dj Electrical Ad Hoc Report

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Electrical Track Ad Hoc Chair

Report

- 2 ad hoc calls since September 2023 meeting
 - 17 August and 31 August 2023
 - 75+ attendees
 - 8 contributions, 1 straw poll
 - 1 additional channel contribution
- Next meeting TBD:
 - To be announced over the electrical track email reflector

Presentations (1/2)

- Meeting minutes and presentation materials:
<https://www.ieee802.org/3/dj/public/adhoc/electrical/index.html>
- 17 August
 - “IEEE P802.3dj Package Status Update & Next Steps” - Kent Lusted
 - “COM Update 4.1” - Rich Mellitz
 - “Floating Tap Feed Forward Equalization (FFE) for COM” Tobey P.-R. Li
 - “AUI error rate specifications” - Adee Ran

Presentations (2/2)

- Meeting minutes and presentation materials:
<https://www.ieee802.org/3/dj/public/adhoc/electrical/index.html>
- 31 August
 - “For Reference: Transmitter Training Proposal for 256GFC”, Anil Mehta
 - – “212Gb/s Per Lane PAM4 Chip-to-Module Conventional Channels Room vs. Hi Temp”, Jim Weaver
 - – “802.3dj - CR Considerations for Insertion Loss Budget Baseline”, Chris Diminico
 - – “RX FFE Implementation Algorithm for COM 4.1”, Rich Mellitz

Straw Polls

- 17 August 2023

Straw Poll #1 - pkg

I would support the package direction proposed in
lusted_3dj_elec_01_230817 slide #4

Results (all): Y: 33 N:2 A: 10

Results (802.3 voters): Y: 26 N: 2 A: 8

Key Themes

- COM Updated for RXFFE functionality (v4.1)
 - Available on 3dj TF Tools and Channel webpage
- Much interest in COM 4.1 RXFFE functionality and performance
- Two package approach: Class A and Class B
- Starting to see baseline proposal framework
- AUI BER allocation for C2M and C2C needed to move forward

THANKS!