

# Motions and Straw Polls

IEEE P802.3cw, IEEE P802.3df and P802.3dj Task Force Joint Meeting

July 2023 Plenary

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# Foreword

- Straw polls related to resolving comments may be found in the associated comment response files.
- This contribution summarizes motions and straw polls not related to comments.
- This contribution is not the official minutes of the meeting.

If there is any discrepancy between this contribution and the meeting minutes, then the minutes take precedence.

10 July 2023

# Motion #1

Move to adopt the proposed responses for P802.3df D2.1 comment resolution in

[https://www.ieee802.org/3/df/comments/D2p1/8023df\\_D2p1\\_comments\\_bucket1\\_clause.pdf](https://www.ieee802.org/3/df/comments/D2p1/8023df_D2p1_comments_bucket1_clause.pdf) except # 9, 18, 30, 32, 33, 47,53

M: Matt Brown

S: Mike Dudek

Technical ( $\geq 75\%$ )

802.3 voters only

Result: passed by unanimous consent. 1:55 p.m.

# Straw Poll #1

I would support the direction of the RXFFE changes to Annex 93A (COM) in mellitz\_3dj\_01a\_2307 slides 6, 7, and 8

Results (all): Y: 61, N: 0, NMI: 7, A: 19

# Straw Poll #2

I support specifying stateless 64b/66b encode and decode, as defined in 802.3df D2.1 172.2.4.1.2 and 172.2.5.9.2, as an option in Clause 119 for all 200G/lane PHY/PMDs

Results (all): Y: 66, N: 1, A: 27

# Straw Poll #3

I would support the proposal of 4x RS codewords interleaving for 200 GbE and 400 GbE using 200G/lane AUIs or PMDs, as shown in slides 4-6 and 10 of [he\\_3dj\\_02a\\_2307](#) and with full deskew on 100G/lane input AUI lanes.

Results (all): Y: 57, N: 8, A: 33

11 July 2023



# Straw Poll #4

I would support a die-to-die insertion loss  $\leq 40$  dB at 53.125 GHz for the 200G/lane CR PHYs

Results (all): Y: 58, N: 0 , NMI: 7 , A: 25

# Straw Poll #5

I would support adopting the CI 73 changes in lusted\_3dj\_06a\_2307 slides 7-15

Results (all): Y: 62, N: 0, NMI: 4, A: 28

# Straw Poll #6

I support adopting the same inner FEC architecture used for 200GbE/400GbE/800GbE for 1.6TbE SMF optical PMDs (500m/2km)

Results (all): Y: 68 , N: 0 , A: 21

# Straw Poll #7

I would support the direction of using self-sync technique for inner FEC as described in page 6 of he\_3dj\_03a\_2307.

Results (all): Y: 60, N: 1, NMI: 4, A: 25

# Motion #2

Move that the IEEE P802.3df Task Force generate Draft 3.0 from D2.1 and the closed comments

M: Matt Brown

S: Adee Ran

Technical ( $\geq 75\%$ )

802.3 Voters Only

Result: passed by unanimous consent 4:00 p.m.

# Motion #3

Move that the Task Force re-affirm the CSD responses in <https://mentor.ieee.org/802-ec/dcn/21/ec-21-0306-01-ACSD-p802-3df.pdf> and request approval to progress the IEEE P802.3df draft to IEEE Standards Association ballot

M: Mark Nowell

S: Piers Dawe

Technical ( $\geq 75\%$ )

802.3 voters only

Result: passed by unanimous consent 4:11 p.m.

**12 July 2023**

# Straw Poll #8:

I would support defining only one DER0 value of  $2.67e-5$  (equivalent to measured BER of  $4e-5$  with precoding ON) as the total allocation for AUIs within a PHY (BER division between C2C and C2M as well as the measurement method to be determined later)

Results (all): Y: 83, N: 1, NMI: 2, A:15



# Straw Poll #9

I would support the direction of a RXFFE based reference RX to the 200G/lane AUI C2M and AUI C2C

Results (all): Y: 61, N: 0, NMI: 10, A: 26

# Straw Poll #10:

I believe the maximum IL (die-die) target for 200G per lane AUI C2M should be:

- A. 32 dB
- B. 36 dB
- C. NMI
- D. abstain

Results (all): A: 29, B: 18, C: 21 , D: 33

Results (802.3 voters) A: 26 B: 16 C: 16, D: 22

# Straw Poll #11

I would support adopting the direction of adding an option to support only RS544 FEC (aka Bypass Inner FEC) for the single wavelength 500m and 2km optical PMDs with the mechanism to enable it remaining TBD

Results (all): Y: 69 , N: 15 , A: 15

# Straw Poll #12

I would support adopting the following as baselines for 800G-LR1 and 800G-ER1:

- LR1 Logic baseline: kota\_3dj\_01a\_2307.pdf
- LR1 Optics baseline: maniloff\_3dj\_01\_2307.pdf (slides 7-9)
- ER1 Logic baseline: nicholl\_3dj\_02a\_2307.pdf
- ER1 Optics Baseline: williams\_3dj\_01a\_2305.pdf (slides 7-10)

Results (all): Y: 50 , N: 29 , A: 27

Results (802.3 voters): Y: 40, N: 26, A: 19

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# Motion #4

Move to adopt the direction of adding an option to support only RS544 FEC (aka Bypass Inner FEC) for the single wavelength 500m and 2km optical PMDs with the mechanism to enable it remaining TBD

M: Brian Welch

S: Zvi Rechtman

Technical ( $\geq 75\%$ )

802.3 voters only

Result: passed by unanimous consent. 8:14 a.m.

# Straw Poll #13

I would support adoption of BCH FEC as defined in kota\_3dj\_01a\_2307.pdf slides 6-18 as the baseline FEC specification for the single wavelength 10 km 800Gb/s optical PMD.

Results (all): Y: 66, N: 19, A: 35

results (802.3 voters) Y: 62, N: 17 A: 20

# Motion #5

Move to adopt BCH FEC as defined in kota\_3dj\_01a\_2307.pdf slides 6-18 as the baseline FEC specification for the single wavelength 10 km 800Gb/s optical PMD.

M: Eric Maniloff

S: Peter Stassar

Technical ( $\geq 75\%$ )

802.3 voters only

Result: Y: 60 , N: 14, A: 20

motion passed 8:35 a.m.



# Straw Poll #14:

I would support adoption of the O band optical parameters as defined in maniloff\_3dj\_01\_2307.pdf slides 7-9 as the baseline optical specification for the single wavelength 10 km 800Gb/s optical PMD

Results (all): Y: 44, N: 12 , NMI: 30 , A: 30

# Straw Poll #15

I support the use of the CD\_Q methodology (with values TBD) as described in johnson\_3dj\_01a\_2307 and liu\_3dj\_01\_2307 to specify chromatic dispersion (CD) for initial baseline specifications for 200G per lane PAM4 PMDs

A: Yes

B: No, wait for more accurate CD\_Q values from ITU-T

C: No, continue to use traditional worst case CD values

D: Abstain

Results (all): A: 72, B: 8, C: 1, D: 33

# Motion #6

Move to adopt one DER0 value of  $2.67e-5$  (equivalent to measured BER of  $4e-5$  with precoding ON) as the total allocation for 200Gbps/lane AUIs within a PHY (BER division between C2C and C2M as well as the measurement method to be determined later)

M: Adee Ran

S: Tobey P.-R. Li

Technical ( $\geq 75\%$ )

802.3 voters only

Result: passed by unanimous consent. 9:19 a.m.

# Motion #7

Move to adopt a die-to-die insertion loss  $\leq 40$  dB at 53.125 GHz for 200GBASE-CR1, 400GBASE-CR2, 800GBASE-CR4 and 1.6TBASE-CR8 PHYs

M: Mike Li

S: Nathan Tracy

Technical ( $\geq 75\%$ )

802.3 voters only

Result: passed by unanimous consent. 9:25 a.m.

# Motion #8

Move to adopt stateless 64b/66b encode and decode, as defined in opsasnick\_3dj\_01a\_2307.pdf slides 7 and 8, as an option for 200GbE and 400GbE for all 200G/lane PHY/PMDs

M: Eugene Opsasnick

S: Mark Gustlin

Technical ( $\geq 75\%$ )

802.3 voters only

Results: passed by unanimous consent. 9:29 a.m.

# Motion #9:

Move to adopt the same inner FEC architecture used for 200GbE/400GbE/800GbE for 1.6TbE SMF optical PMDs (500m/2km)

M: Ali Ghiasi

S: Kishore Kota

Technical ( $\geq 75\%$ )

802.3 voters only

Result: passed by unanimous consent. 9:32 a.m.

# Motion #10

Move to adopt the 4x RS codewords interleaving for 200GbE and 400 GbE using 200G/lane AUIs or PMDs, as shown in slides 4-6 and 10 of he\_3dj\_02a\_2307 along with deskew (alignment) to codeword boundaries for 100G/lane input lanes.

M: Xiang He

S: Adee Ran

Technical ( $\geq 75\%$ )

802.3 voters only

Result: passed by unanimous consent. 9:38 a.m.

# Motion #11

Move to adopt the FEC\_I sublayer architecture with 200G throughput convolutional interleaver as shown in slides 6-11 of he\_3dj\_01\_2307 for 200G/400G/800G/1.6TbE

M: Xiang He

S: Gary Nicholl

Technical ( $\geq 75\%$ )

802.3 voters only

Result: passed by unanimous consent. 9:42 a.m.



# Motion #12

Motion to adopt using the self-sync technique for inner FEC as described on page 6 of he\_3dj\_03b\_2307, with exact policy for determining lock TBD.

M: Xiang He

S: Mark Gustlin

Technical ( $\geq 75\%$ )

802.3 voters only

Result: withdrawn at 9:55 a.m.

# Motion #13

Move to table motion #12

M: Ali Ghiasi

S: Mike Dudek

Procedural (>50%)

802.3 voters only

Result: Yes: 27, N: 34, A: 23

Motion fails 9:54 a.m.

# Motion #14

Move that the P802.3dj Task Force approve:

- IEEE\_802d3\_to\_OIF\_3dj\_2307\_draft\_redacted.pdf and IEEE\_802d3\_to\_OIF\_3cw\_2307\_draft\_redacted.pdf with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to OIF.

M: Tom Huber

S: Eric Maniloff

Technical ( $\geq 75\%$ )

802.3 voters only

Results: Passed by unanimous consent. 10:50 a.m.