Motions and Straw Polls

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

March 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.

13 March 2023

Straw Poll #1

I would support a one-lane 200 GbE, a two-lane 400 GbE, a four-lane 800 GbE, and an eight-lane 1.6 TbE backplane objective of the form:

> “Define a physical layer specification that supports [n*200] Gb/s operation over [n] lanes over electrical backplanes supporting a die-to-die insertion loss ≤ X dB at 53.125 GHz”

Results (all) Y: 56 , N: 11 , A: 14

14 March 2023

Straw Poll #2

I would support adopting opsasnick_3dj_01a_2303, slides 3, 5-9, 12-13, as a supplement to the previously adopted 1.6TbE PCS baseline from gustlin_3dj_01b_230206.pdf.

These two presentations together complete the baseline for the 1.6TbE PCS.

Results (all) Y: 77 , N: 2 , A: 19

Straw Poll #3

I would support the proposal in ran_3dj_01a_2303 as a baseline for the PMAs with 200G per lane signaling

Results (all) Y: 76 , N: 4, A: 19

Straw Poll #4

I would support the use of “link training” (a mechanism through which the receiver can request to adjust the partner’s transmitter to optimize performance) on the 200GAUI-1/400GAUI-2/800GAUI-4/1.6TAUI-8 C2M interfaces

Results (all) Y: 64 , N: 1 , NMI: 18 , A: 12

15 March 2023

Straw Poll #5

I am supportive of the direction of patra_3dj_01b_2303 pages 3, 6-14 and 20-23 as the baseline FEC proposal for 200 Gb/s per lane optical PMDs (per page 3) with the details of the convolutional interleaver to be determined later.

(Choose one)

Results (all) Y: 48 , N: 31 , A: 34

Results (802.3 voters only) Y: 29 , N: 29 , A: 29

Straw Poll #6

The primary issue that I think should be addressed with the baseline proposal in straw poll #5 is:

a. AUI BER details
b. 1.6T support
c. convolutional interleaver
d. common FEC across the 200G/lane PMDs
e. latency
f. FEC lane rate
g. other

(choose one)

Results (all): A: 26 , B: 9 , C: 5 , D: 27 , E: 10 , F: 6 , G: 4

Motion #1

Move to:

Replace the following objective:

- Define a physical layer specification that supports 800 Gb/s operation over a single SMF in each direction with lengths up to at least 10 km

with the following two objectives:

- Define a physical layer specification that supports 800 Gb/s operation over 1 wavelength over a single SMF in each direction with lengths up to at least 10 km
- Define a physical layer specification that supports 800 Gb/s operation over 4 wavelengths over a single SMF in each direction with lengths up to at least 10 km

M: Mark Nowell

S: John Johnson

Technical (>=75%)

802.3 voters only

Result: Y: 63, N: 3, A: 12 Motion passed 2:43 p.m.

Motion #2

Move to adopt the following objective for 400GBASE-DR2-2:

- Define a physical layer specification that supports 400 Gb/s operation over 2 pairs of SMF with lengths up to at least 2 km

M: Brian Welch

S: John Johnson

Technical (>=75%)

802.3 voters only

Result: Motion passed by unanimous consent 2:47 pm.

Straw Poll #7

I support a CRU bandwidth and jitter tolerance corner frequency of Fbaud/26562.5 for all 802.3dj interfaces operating at 200 Gb/s/lane

Results (all) Y: 49, N: 3, NMI: 15 , A: 32

Motion #3

Move to:

- adopt opsasnick_3dj_01a_2303, slides 3, 5-9, 12-13, as a supplement to the previously adopted 1.6TbE PCS baseline from gustlin_3dj_01b_230206.pdf.

M: Eugene Opsasnick

S: Xiang He

Technical (>=75%)

802.3 voters only

Result: Passed by unanimous consent. 5:12 p.m.

Motion #4

Move to:

- Adopt ran_3dj_01a_2303, slides 6-24 as a baseline for the PMAs with 200 Gbps per lane signaling

M: Adee Ran

S: Shawn Nicholl

Technical (>=75%)

All / 802.3 voters only

Result: Y: 69, N: 1, A: 13 Motion passes 5:22 p.m.

16 March 2023

Straw Poll #8

I would support patra_3dj_01b_2303 slides 6 to 8, 13, 14, and 20 to 23 as part of the FEC approach for

- 800GBASE-DR4, 800GBASE-DR4-2, 800GBASE-FR4
- 400GBASE-DR2, 400GBASE-DR2-2*
- 200GBASE-DR1, 200GBASE-FR1

with FEC lane rate, convolutional interleaver details, and 1.6T support to be determined later

Results (all) Y: 80 , N: 6 , A: 22

* Note: 400GBASE-DR2-2 pending WG approval

Motion #5

Move to:

Adopt patra_3dj_01b_2303 slides 6 to 8, 13, 14, and 20 to 23 as part of the FEC approach for

- 800GBASE-DR4, 800GBASE-DR4-2, 800GBASE-FR4
- 400GBASE-DR2, 400GBASE-DR2-2* (Note: 400GBASE-DR2-2 pending WG objective approval)
- 200GBASE-DR1, 200GBASE-FR1

with FEC lane rate, convolutional interleaver details, and 1.6T support to be determined later

M: Adam Healey

S: Mike Dudek

Technical (>=75%)

802.3 voters only

Result: Y: 70, N: 5, A: 15 motion passes 9:10 a.m.

Motion #6

Move to:

Amend motion #5 to read:

Adopt patra_3dj_01b_2303 slides 6 to 8, 13, 14, and 20 to 23 as part of the FEC approach for

- ~~800GBASE-DR4, 800GBASE-DR4-2,~~ 800GBASE-FR4
- ~~400GBASE-DR2, 400GBASE-DR2-2* (Note: 400GBASE-DR2-2 pending WG objective approval)~~
- ~~200GBASE-DR1, 200GBASE-FR1~~

with FEC lane rate, convolutional interleaver details, and 1.6T support to be determined later

M: Piers Dawe

S: Zvi Rechtman

Technical (>=75%)

802.3 voters only

Result: Y: 17, N: 44, A: 27 Motion failed 904am

Straw Poll #9

I believe 200G Medium BER C2M AUI specifications will require support for:

A. BER ≤ 1e-5 (per segment)
B. BER ≤ 5e-5 (per segment)
C. BER ≤ 1e-4 (per segment)
D. BER ≥ 1e-4 (per segment)
E. Need more information

(pick one)

Results (all): A: 49 , B: 30 , C: 0 , D: 0 , E: 25

Straw Poll #10

I believe 200G High BER C2M AUI specifications will require support for:

A. BER ≤ 1e-5 (per segment)
B. BER ≤ 5e-5 (per segment)
C. BER ≤ 1e-4 (per segment)
D. BER ≥ 1e-4 (per segment)
E. Need more information

(pick one)

Results (all): A: 16 , B: 47 , C: 17 , D: 1 , E:23

Straw Poll #11

I support adoption of C-band (~1550nm) operation for 800GBASE-LR1 and 800GBASE-ER1 PMDs

(Choose one)

Results (all) Y: 21 , N: 41 , NMI: 26 , A: 28

Results (802.3 voters only) Y: 20 , N: 22 , NMI: 22 , A:22

Motion #7

Move that the IEEE P802.3df and P802.3dj Task Forces approve:

- IEEE_802d3_to_ITU_3df_2303_draft_redacted.pdf with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to ITU.
- IEEE_802d3_to_OIF_3dj_2303_CMIS_draft_redacted.pdf with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to OIF.
- IEEE_802d3_to_OIF_3df_2303_800GLR_draft_redacted.pdf with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to OIF.

M: Tom Huber

S: Ali Ghiasi

Technical (>=75%)

802.3 voters only

Result: Passed by unanimous consent 11:30 a.m.