Adopted PHY baselines

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PHY baseline motions (11/14/2024)

11/14/2024:

- Motion #3: Move that the IEEE P802.3dg Task Force adopt slides 3 to 8 and slide 10 of <u>Murray_3dg_01a_11132024.pdf</u>
- Encoding and decoding rules for the PCS using 8N/(8N+1) Encoding, and optional support of Sequence Ordered Sets
- Motion #4: Move that the IEEE P802.3dg Task Force adopt slides 4 to 7 of <u>Murray_3dg_03a_11132024.pdf</u>
- EEE LPI quiet-refresh timing and definition of the auxiliary bit for signaling insufficient LPI refresh.
- Motion #5: Move that the IEEE P802.3dg Task Force adopt slides 3 to 7 of <u>Fitzgerald_3dg_01_11132024.pdf</u>
- Auto-Negotiation parameters including technology definition bits, transmit level negotiation, priority resolution, & break_link_timer

PHY baseline motions (9/17/2024)

9/17/2024:

- Motion #6: Move that the IEEE P802.3dg Task Force adopt slides 2, 3, and 4 of <u>murray_3dg_02_09172024.pdf</u>
- Slides 2 & 3 are a 33-bit side stream PCS Tx scrambler, based on 40.3.1.3.2, including how the data octet is combined with scrambler bits
- Slide 4 is a format for a PMA training frame, composed of 16 partial PHY frames with several TBD parameters including partial frame length and infofield contents.
- Motion #8: Move that IEEE 802.3dg not include an OAM channel, and set the auxiliary bit in the PHY frame to zero

PHY baseline motions (5/13 & 7/15/2024)

7/15/2024:

• Motion #1 Adopt a proposal for a 100BASE-T1L PHY using PAM-3 8b6T in Murray_3dg_07152024.pdf (as amended during discussion)

https://www.ieee802.org/3/dg/public/May_2024/Murray_3dg_01a_07152024.pdf

• Motion #2 Adopt:

• Sequence ordered set of the MII according to <u>Lo_3dg_01a_0724.pdf</u>, page 3.

• The nibble combining at the input of the 8N/(8N+1) encoder, and byte splitting rules at the output of the 8N/(8N+1) decoder according to Lo_3dg_01a_0724.pdf, page 10, 11, 12, 15 and page 9 for ordered sets.

• The 100BASE-T1L 8N/(8N+1) encoder/decoder with modifications according to Lo_3dg_01a_0724.pdf, pages 13, 14

5/13/2024: (These motions refined and implemented by the above)

- Motion #1 Move that the TF select PAM3 as the modulation for the IEEE 802.3dg PHY
- Motion #2: Move that 802.3dg add the capability to support sequence ordered sets to the MII signaling.