Motions

John D'Ambrosia

Futurewei, Subsidiary of Huawei

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Study Group Objectives Discussions to Date

	50 GbE	100 GbE	200 GbE	400 GbE
40 km to 80 km	Minimal Interest (Nov 17, Straw Poll #3)	More education needed (Jan 2018, Straw Poll #6)		
40 km	Objective Adopted	No Interest (Jan 2018, Straw Poll #2)	Tech Feasibility being addressed	Tech Feasibility being addressed

Rate / BER Objectives

1. 50 Gb/s
    1. Support a MAC data rate of 50 Gb/s
    2. Support a BER of better than or equal to 10^-12 at the MAC/PLS service interface (or the frame loss ratio equivalent) for 50 Gb/s
2. 100 Gb/s
    1. Support a MAC data rate of 100 Gb/s
    2. Support a BER of better than or equal to 10^-12 at the MAC/PLS service interface (or the frame loss ratio equivalent) for 100 Gb/s
3. 200 Gb/s
    1. Support a MAC data rate of 200 Gb/s
    2. Support a BER of better than or equal to 10^-13 at the MAC/PLS service interface (or the frame loss ratio equivalent) for 200 Gb/s
4. 400 Gb/s
    1. Support a MAC data rate of 400 Gb/s
    2. Support a BER of better than or equal to 10^-13 at the MAC/PLS service interface (or the frame loss ratio equivalent) for 400 Gb/s

Motion #3

- **Move that the Beyond 10km Optical PHYs Study Group replace the following objective:**

  “Provide physical layer specifications which support 50 Gb/s operation over at least 40 km of SMF”

  With

  “Provide a physical layer specification which supports 50 Gb/s operation over at least 40 km of SMF”

- **M: Curtis Knittle**
- **S: David Lewis**
- **Technical (>= 75%)**
- **Results**
  - **Y :**
  - **N :**
  - **A:**
- **Motion passes by voice vote without objection**

Motion #4

- Move that the Beyond 10km Optical PHYs Study Group adopt the following objectives:
  - Support a MAC data rate of 200 Gb/s
  - Support a BER of better than or equal to 10^-13 at the MAC/PLS service interface (or the frame loss ratio equivalent) for 200 Gb/s
  - Provide a physical layer specification which supports four-lane 200 Gb/s operation over at least 40km of SMF.
- M: Helen Xu
- S: Pete Anslow
- Technical (>=75%)
- Results Y: 34 N: 3 A: 18
- 802.3 y: 28 N: 2 A: 15
- Motion Passes

Strawpoll #1 (Requested by Mark Nowell)

- I would support that the Beyond 10km Optical PHYs Study Group adopt the following objectives:
  - Support a MAC data rate of 100 Gb/s
  - Support a BER of better than or equal to 10^-12 at the MAC/PLS service interface (or the frame loss ratio equivalent) for 100 Gb/s
  - Provide a physical layer specification supporting 100 Gb/s operation on a single wavelength capable of at least 80 km over a DWDM system.
- Results
  - Y : 38
  - N : 6
  - A: 6
  - Need more Information: 7

Motion #5

- **Move that the Beyond 10km Optical PHYs Study Group adopt the following objectives:**
  - **Support a MAC data rate of 100 Gb/s**
  - **Support a BER of better than or equal to 10^-12 at the MAC/PLS service interface (or the frame loss ratio equivalent) for 100 Gb/s**
  - **Provide a physical layer specification supporting 100 Gb/s operation on a single wavelength capable of at least 80 km over a DWDM system.**
- **Technical (>=75%)**
- **M: Mark Nowell**
- **S: Brad Booth**
- **Results all Y: 42 N: 14 A: 6**
- **802.3 Y: 29 N: 11 A: 3**
- **Motion Passes**

Motion 6

- The Question was called on Motion #5

- M: Dylan Walker
- S: Helen Xu
- Results (>=75%)
  - Yes - 36
  - No – 16
- Motion Fails

Motion #7

Move that the IEEE 802.3 Beyond 10km Study Group approve:

- IEEE_802d3_to_OIF_400ZR_0318_draft

with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to OIF.

- Technical (>=75%)
- M: Ofelt
- S: Anslow
- Motion passes by voice vote without opposition

Motion #8

- Move that the Study Group requests the re-chartering of the IEEE 802.3 Beyond 10 km Optical PHYs Study Group
- Results >= 75%
- M: Nowell
- S: Anslow
- Results: passes by voice vote without opposition

Attendance Strawpolls

- Attend May 2018 SG interim, Pittsburgh, PA, USA:
- Y: 29 N: 4 M: 15

- Attend July 2018 SG Plenary, San Diego, CA, USA
- Y: 36 N: 3 M: 7