

Nomenclature: Part 3

Kent Lusted, Intel Corporation

Nomenclature Proposal Update

- Based on the feedback and straw poll results at the 14 April 2022 IEEE P802.3df Optical ad hoc, the optical nomenclature proposal was updated
 - Straw Poll #1
 - I would support the proposed nomenclature for parallel 500m and duplex 2km SMF listed on `lusted_3df_optx_01_220414`, slide 8
 - Results: Y: 64 N: 0
 - Straw Poll #2
 - For the 2km parallel SMF nomenclature, I would support the direction of:
 - A. use “DR”, such as shown in Example A listed on `lusted_3df_optx_01_220414`, slide 11
 - B. use “FR”, such as shown in Example B listed on `lusted_3df_optx_01_220414`, slide 11
 - Results: A: 44 B: 12
 - Straw Poll #3
 - For the length (“LEN”) representation for the “DR” PMDs shown on `lusted_3df_optx_01_220414`, slide 11, I prefer the format:
 - A. units in meters, e.g. “2000”
 - B. units in km, e.g. “2”
 - C. units in km plus showing units, e.g. “2km”
 - Results: A: 5 B: 36 C: 22
- This proposal for 500m and 2km SMF PHYs will be brought forward to the Task Force May meeting series.

Proposal for 500m and 2km SMF

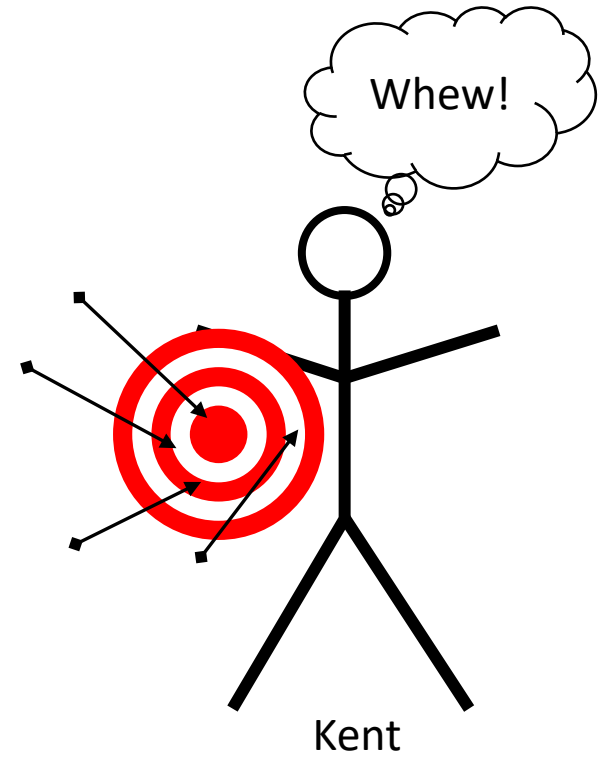
Ethernet Rate	Assumed Signaling Rate	SMF 500m	SMF 2km
200 Gb/s	200 Gb/s	Over 1 Pair: 200GBASE-DR1	Over 1 Pair: 200GBASE-FR1
400 Gb/s	100 Gb/s		Over 4 Pair: 400GBASE-DR4-2
	200 Gb/s	Over 2 Pair: 400GBASE-DR2	
800 Gb/s	100 Gb/s	Over 8 Pair: 800GBASE-DR8	Over 8 Pair: 800GBASE-DR8-2
	200 Gb/s	Over 4 Pair: 800GBASE-DR4	1) Over 4 pairs = 800GBASE-DR4-2 2) Over 4 λ 's = 800GBASE-FR4
	TBD		
1.6 Tb/s	100 Gb/s		
	200 Gb/s	Over 8 Pair: 1.6TBASE-DR8	Over 8 Pair: 1.6TBASE-DR8-2

Straw Polls

Potential Straw Poll #1

- I would support the proposed nomenclature for the 500m and 2km SMF solutions listed on lusted_3df_optx_01_220428, slide 3
 - Y, N, A

THANKS!



Nomenclature References

- Participants are invited to reference the following contributions related to nomenclature
 - Past PHY naming:
 - https://www.ieee802.org/3/cb/public/jan16/PHY_names_1115.pdf
 - 3cn naming related:
 - https://www.ieee802.org/3/cn/public/18_11/anslow_3cn_01_1118.pdf
 - 3cz naming related:
 - https://www.ieee802.org/3/cz/public/nov_2020/perezaranda_3cz_02c_1120_phyname.pdf
 - 3db naming related:
 - https://www.ieee802.org/3/db/public/March-04-2021/parsons_3db_01_030421.pdf
 - 3cu naming related:
 - https://www.ieee802.org/3/cu/public/Nov19/cole_3cu_01a_1119.pdf