

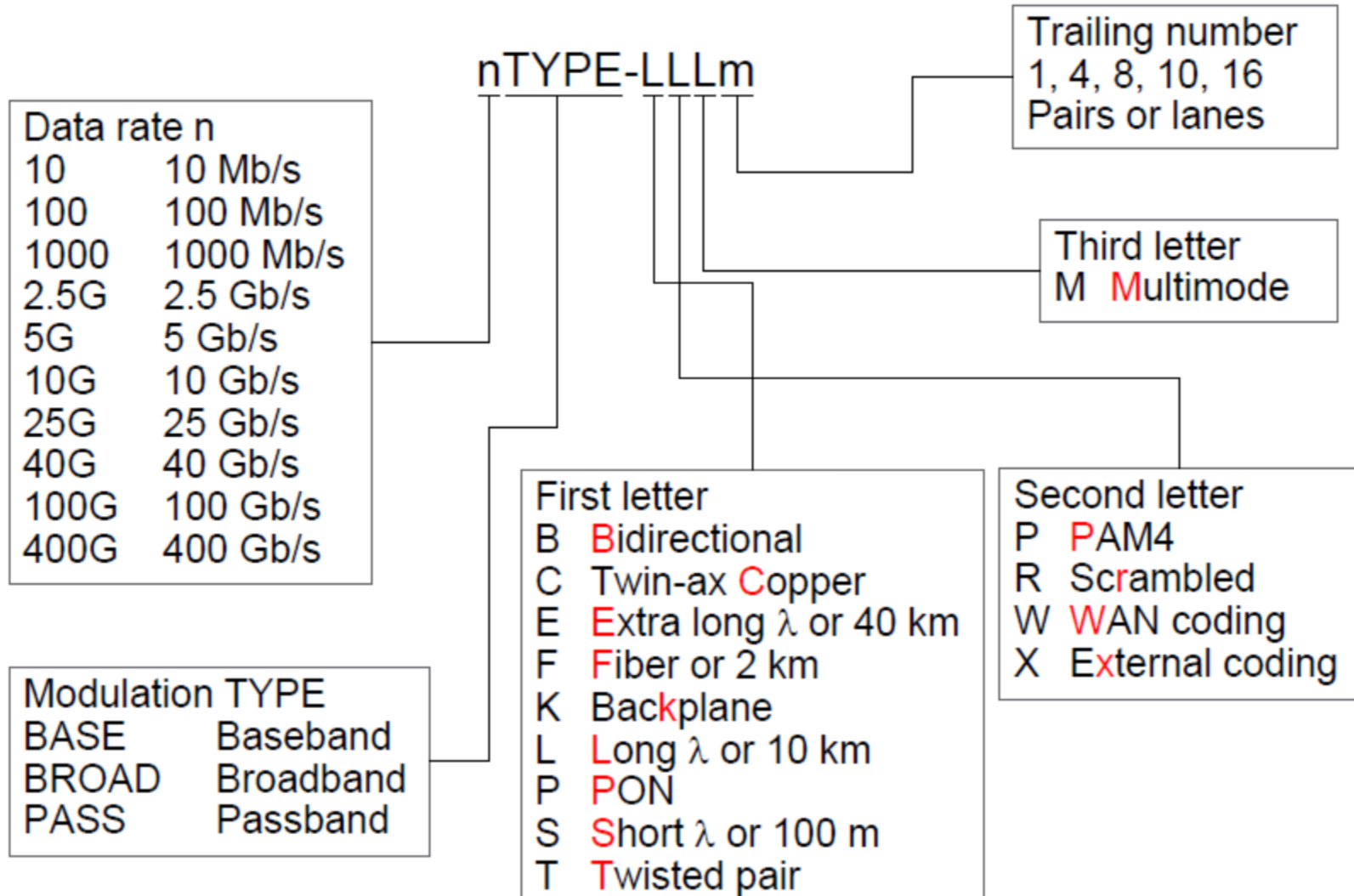
# PMD Naming Proposal

Kenneth Jackson (Sumitomo Electric)

IEEE 802.3 100 Gb/s per lane optical PHYs Task Force

Salt Lake City, UT  
May 2019 Interim

# Background: PHY name decoder



Source: [http://www.ieee802.org/3/bs/public/15\\_07/anslow\\_3bs\\_03\\_0715.pdf](http://www.ieee802.org/3/bs/public/15_07/anslow_3bs_03_0715.pdf)

# This project has four PMD objectives

- Define a **single-wavelength 100 Gb/s** PHY for operation over SMF with lengths up to at least **2 km**
- Define a **single-wavelength 100 Gb/s** PHY for operation over SMF with lengths up to at least **10 km**
- Define a **four-wavelength 400 Gb/s** PHY for operation over SMF with lengths up to at least **2 km**
- Define a **four-wavelength 400 Gb/s** PHY for operation over SMF with lengths up to at least **10 km**

# Proposed PHY Names

- 100Gb/s, single-wavelength, 2km: *100GBASE-FR*
- 100Gb/s, single-wavelength, 10km: *100GBASE-LR*
- 400Gb/s, four-wavelength, 2km: *400GBASE-FR4*
- 400Gb/s, four-wavelength, 10km: *400GBASE-LR4*

# Thank You.