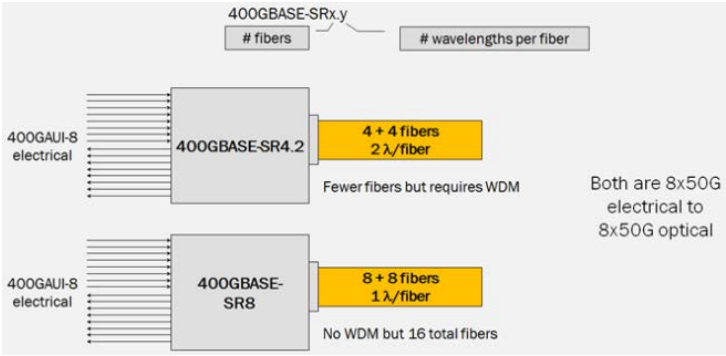
IEEE P802.3cm Task Force Update
Summary

- P802.3cm 400 Gb/s over Multimode Fiber Task Force (TF)
- Two of the Key Objectives, adopted by WG March, 2018:
  - Define a physical layer specification that supports 400 Gb/s operation over 4 pairs of MMF with lengths up to at least 100m
  - Define a physical layer specification that supports 400 Gb/s operation over 8 pairs of MMF with lengths up to at least 100m
- Baseline proposals adopted July, 2018:
  - 400GBASE-SR4.2 meets the 4-pair objective and uses 2 BiDi wavelengths per fiber
    - Baseline reach objectives: 70m OM3, 100m OM4, 150m OM5
    - Standard 12-fiber MPO connector interface (8 active fibers)
  - 400GBASE-SR8 meets the 8-pair objective
    - Baseline reach objectives of 70m on OM3 and 100m using OM4/OM5
    - Both single row MPO-16 and 24f MPO (MPO-12 two-row) were chosen as MDI options



- Draft 1.0 TF review started: October, 2018
- Draft 2.0 WG ballot started: March 2019
- Standard completion targeted date: December, 2019

IEEE P802.3cm Task Force Update
Vancouver, Canada 802.3 Plenary TF Meetings, March 2019
Ad Hoc meeting, April 2019

- Current technical topics under discussion:
  - Modal Noise (MN) penalty
  - To lesser extent, Mode Partition Noise (MPN) and TDECQ/SECQ penalties
  - Proposal to update the current 400GBASE-SR4.2 specification (Clause 150, Draft 2.0) for interoperation with 100G BiDi specification
- Comment resolution against Draft 1.2 (third and final TF draft) completed
- WG Ballot Draft 2.0 initiated