

# Summary:

## Proposed Project Documentation Packages

John D'Ambrosia

Chair, IEEE 802.3 Beyond 10km Optical PHYs Study Group

Futurewei, Subsidiary of Huawei

IEEE 802.3 May Interim

Pittsburgh, PA, USA

# Current Status

- Presentation is being given with my “Chair” hat on.
  - None of this discussion should be interpreted as an endorsement of any objective or proposal by me.
  - This presentation is my interpretation, as chair, of conversations in the Study Group and associated ad hoc calls.
- Updated work on CSD responses to include 200 GbE/40km objective were presented in 100 GbE / 200 GbE CSD Responses Ad Hocs
  - “Clean” version of ad hoc CSD responses shown in [http://www.ieee802.org/3/B10K/public/adhoc/18\\_0515/dambrosia\\_b10k\\_02\\_180515.pdf](http://www.ieee802.org/3/B10K/public/adhoc/18_0515/dambrosia_b10k_02_180515.pdf)
- Discussion of determination of PAR project dates raised the question of whether the Study Group should develop project documentation for 1 or 2 projects.
- As noted in call, as Chair, I have prepared project documentation (PAR Response / CSD) for the potential different project types to enable SG consideration at May meeting.
  - Note – Output of ad hoc work was used as the basis for all proposals.

# Overview of Objectives

- Adopted physical layer objectives
  - Provide a physical layer specification which supports 50 Gb/s operation over at least 40 km of SMF
  - Provide a physical layer specification which supports four-lane 200 Gb/s operation over at least 40km of SMF.
  - Provide a physical layer specification supporting 100 Gb/s operation on a single wavelength capable of at least 80 km over a DWDM system.
- Other objectives may be adopted @ May Interim meeting.
- It was noted that the media (SMF versus DWDM system) could distinguish the different efforts.

# Documentation Package Options

- Study Group has to chose between
  - Option #1 – single project
  - Option #2 – two projects
- Options
  - Option #1 – all physical layer objectives are grouped together in a single project.
    - Proposed PAR Response: dambrosia\_b10k\_03\_0518
    - Proposed CSD Response: dambrosia\_b10k\_04\_0518
  - Option #2a – physical layer objectives related to “at least 40 km of SMF” in one project.
    - Proposed PAR Response: dambrosia\_b10k\_05\_0518
    - Proposed CSD Response: dambrosia\_b10k\_06\_0518
  - Option #2b - physical layer objectives related to “at least 80 km over a DWDM system” in one project.
    - Proposed PAR Response: dambrosia\_b10k\_07\_0518
    - Proposed CSD Response: dambrosia\_b10k\_08\_0518

# Going Forward

- SG needs to finalize selection of objectives
- SG then determines 1 or 2 projects
- SG then considers appropriate documentation package for review, update, submission