

# SMF Ad Hoc report

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# Activity

The IEEE P802.3bs 400 Gb/s Ethernet Task Force SMF Ad Hoc has:

- Held two conference calls since the Ottawa meeting:
  - 30 September 2014 – 41 attendees, 14 October 2014 – 43 attendees
- Reviewed 5 presentations:
  - Updated Considerations on 400Gb/s Ethernet SMF PMDs [stassar\\_01a\\_0914\\_smf](#)
    - Discussed 4 x 100G PAM4 power budgets and BER floors.
  - Optical Specifications of SMF PMDs Study [cole\\_01\\_0914\\_smf](#)
    - Updated version of a set of idealised optical budgets for the candidate optical modulation formats
  - SMF PMD Nominal Specifications [cole\\_01a\\_1014\\_smf](#)
    - Further refined version of the presentation above.
  - Silicon Photonics PSM4 Chipset Transmitter Measurements [welch\\_01\\_1014\\_smf](#)
    - Provided measurements of achievable OMA levels in silicon photonics solutions
  - BER-floors in 400Gb/s Ethernet SMF PMDs What are the issues? [stassar\\_01\\_1014\\_smf](#)
    - Gave further information on the concern over BER floors seen in 4 x 100G PAM4 experiments
- Meeting minutes and presentations can be found at:
  - <http://www.ieee802.org/3/bs/public/adhoc/smf/index.shtml>

# Going forward

Despite the large number of SMF contributions to this meeting the P802.3bs project still lacks consensus presentations that provide all of the detail required to enable a proposal to be adopted as a baseline for one of the SMF project objectives. To allow us to adopt something as an SMF baseline we need:

- A good level of consensus to enable a motion to reach 75% approval
- Confidence in economic feasibility and broad market potential
- A detailed power budget
- Measurements of key parameters such as dispersion tolerance etc.

It is therefore expected that there will be a need for further SMF Ad Hoc meetings going forward.

Thanks!