

SMF Ad Hoc report

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Activity

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

- Held one conference call since the Pittsburgh meeting:
 - 9 June 2015 – 39 attendees
- Reviewed 5 presentations:
 - SMF BTIs [anslow_01_0615_smf](#)
 - Proposed a revised set of SMF BTI's following the decisions made in the Pittsburgh meeting.
 - 400G-PSM4: A Proposal for the 500m Objective using 100 Gb/s per Lane Signaling [welch_01_0615_smf](#)
 - Contained a slightly updated version of the PSM4 500m baseline proposal.
 - 400Gb/s 8x50G PAM-4 WDM 2km SMF PMD Discussion [cole_01a_0615_smf](#)
 - Proposed selecting the 8 x 50G PAM4 proposal for the 2 km objective.
 - Updated considerations on 8x50G PAM4 for 2km duplex SMF [stassar_01_0615_smf](#)
 - Proposed selecting the 8 x 50G PAM4 proposal for the 2 km objective.
 - Ge/Si APD for PAM4 application [huang_01_0615_smf](#)
 - Contained details of APDs with ~ 28 GHz -3dB bandwidth.
- Meeting minutes and presentations can be found at:
 - <http://www.ieee802.org/3/bs/public/adhoc/smf/index.shtml>

Big ticket items as discussed in SMF Ad Hoc

500 m objective

4 x 100G PAM4 PSM4 adopted as the modulation format

- Baseline parameters required

2 km objective

- 8 x 50G NRZ
 - Cost and size low enough to address this market?
- 8 x 50G PAM4
 - Cost and size low enough to address this market?
- 4 x 100G PAM4
 - Test results establishing acceptable BER curve
 - RX sensitivity / technical feasibility

Thanks!