

# SMF Ad Hoc report

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IEEE P802.3bs Task Force, Pittsburgh PA, May 2015

# Activity

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

- Held one conference call since the Berlin meeting:
  - 28 April 2015 – 38 attendees
- Reviewed 3 presentations:
  - Big Ticket Item supporting data for 10km 8x50G NRZ [takai 01 0415 smf](#)
    - Provided dispersion penalty measurements for 10km 8x50G NRZ.
  - Modification proposal for 500m using 8x50G NRZ [takai 02 0415 smf](#)
    - Proposed a modification of the proposal in [cole 3bs 01a 1114](#) to use bidirectional transmission over 8 fibers.
    - Note – The P802.3bs Chair stated that he considered this to be a new proposal.
  - HOM papers from OFC 2015 potentially addressing BTI [ghiasi 01 0415 smf](#)
    - Reviewed papers from OFC 2015 relevant to the P802.3bs BTIs.
- 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

BTIs common to all proposals:

- Dispersion penalty worst case, TDP
- RX sensitivity / technical feasibility
- MPI
- More test results
- Evaluate Coupling between electrical and optical interfaces

BTIs for specific proposals

- 10 km, 2 km, 500 m 4 x 100 Gb/s DMT
  - Optical loss budget model
  - Interoperability
- 500m 4 x 50 GBd PAM4
  - Test results establishing acceptable BER curve

# Going forward

At the Berlin meeting, all presenters were asked when the information in support of the BTI's on the previous page is expected to be available.

- All responses were that this information is expected to be available by the May 2015 interim at the latest

Consequently, further SMF Ad Hoc calls will be scheduled going forward only if the SMF baselines are not adopted in this meeting.

Thanks!