CAUI-4 ad hoc report

Ryan Latchman, Mindspeed, CAUI ad hoc chair

IEEE P802.3bm, Dallas, Nov 2013

CAUI-4 ad hoc activity since York meeting

- CAUI-4 ad hoc calls were held on Sept 16th, Sept 30th, Oct 14th and Nov 4th 2013
  - Meeting minutes and presented materials are available on the 40G & 100G CAUI4 ad hoc area: http://www.ieee802.org/3/bm/public/cuadhoc/index.html
- Highlights:
  - 83D
    - Discussed application requirement – 20dB use case examples
    - Channel models added: http://www.ieee802.org/3/bm/public/cuadhoc/channels/index.html
    - New COM tool available: http://www.ieee802.org/3/bj/public/tools.html
    - Discussed potential MTTFPA path forward based on COM (limit channel magnitude), mechanism in field to monitor link performance (additional optional PCS feature to detect bursts and cause assertion of hi_ber – changes to CL 82, 45)
  - 83E:
    - Discussed addition of MDIO registers for host to communicate reference CTLE settings
    - Discussed addition of low loss test for module input evaluation
- Further work:
  - Detailed proposals on 83D/E modifications
    - 83D: Informative channel update
    - 83D: COM parameter update
    - 83D: Rx interference tolerance update
    - 82/45 MTTFPA improvements
    - 45: MDIO registers for CAUI-4 CTLE recommended values
    - 83E: Host communication of recommended CTLE values used in host output compliance test
    - 83E: Low loss module input test
- Future meetings: Yes, dates to be announced
  - Request for additional 15dB and 20dB channel models for use in COM environment