

Closing Report

IEEE P802.3bs 400GbE Task Force

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Berlin, Germany

IEEE 802 Mar 2015 Plenary

IEEE P802.3bs 400GbE Task Force

Project information

- Task Force Organization
 - John D'Ambrosia, IEEE P802.3bs Task Force Chair
 - Kent Lusted, IEEE P802.3bs Task Force Secretary
 - Pete Anslow, IEEE P802.3bs Task Force Chief Editor
- Task force web and reflector information
 - Reflector information: <http://www.ieee802.org/3/400GSG/reflector.html>
 - Home page: <http://www.ieee802.org/3/bs/index.html>
 - PAR: http://www.ieee802.org/3/bs/PAR_P802.3bs_14_0612.pdf
 - CSD (including 5C): http://www.ieee802.org/3/bs/CSD_400_14_0121.pdf
 - Objectives: http://www.ieee802.org/3/bs/Objectives_14_0320.pdf
 - Approved Timeline New timeline necessary
 - Private area: <http://ieee802.org/3/bs/private/index.html>
 - Username: xxxx
 - Password: xxxxx
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This Week

- \approx 113 Attendees
- Inaugural Chief Editor's Report to discuss document structure
- Ad Hoc Updates
- Discussed update to timeline – no update
- Reviewed 39 Technical Presentations
- Motions (See Next Page)
- Assessed / Updated BTI
- Generated informal communication to OIF (update on adopted baselines)

Motions Summary

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- Adopted RS(544,514,10) as 802.3bs FEC

- Results All (y/n/a): 87/0/10

- CDAUI-8 C2C adopts PAM-4 baseline

- Baseline proposal - li_3bs_01a_0315.pdf, except for the differential return losses (on slide 11) for the TX and the RX shall be TBD .

- Results All (y/n/a): 84/3/18
802.3 (y/n/a): 63/3/15

- CDAUI-8 C2M adopts PAM-4 baseline

- Baseline proposal - brown_3bs_01a_0315.pdf

- Results All (y/n/a): 82/4/17
802.3 (y/n/a): 64/2/15

- “BTI Discussion” Motion

- Move to add to the BTI list for the 2km and 10km SMF NRZ PMDs the item provide evidence for the premise that packaged 50GHz components will be the same cost as 25GHz components in 2017.

- Results All (y/n/a): 15/45/30
- Group recognizes its responsibility to 5C (i.e. economic feasibility)

- Approved informal communication to OIF (update of adopted baselines)

Moving Forward

- More technical work – resolve BTIs
- More Ad Hoc Calls
- More offline consensus building
- Schedule assessment

Future Meetings

- See: <http://www.ieee802.org/3/interims/index.html>
- May 2015 Interim
 - Week of May 18, 2015
 - Omni William Penn Hotel, Pittsburgh, PA, USA
 - Hosted by Ethernet Alliance
- July 2015 Plenary
 - Week of July 12
 - Hilton Waikoloa Village, Waikoloa, Hawaii USA
- Sept 2015 Interim
 - Week of Sept 14
 - Hyatt Regency Coconut Point, Bonita Springs, FL, USA
 - Hosted by NEC
- Nov 2015 Plenary
 - Week of Nov 8
 - Hyatt Regency Dallas, Dallas, TX, USA
- Anyone interested in hosting a meeting or webex contact me.

Thank You!

Backup

Task Force Team

- John D'Ambrosia: Chair
- Kent Lusted: Secretary
- Pete Anslow:
 - Chief Editor
 - SMF Ad hoc Chair
- Mark Gustlin, Logic Ad Hoc Chair
- Jonathan King: MMF Ad Hoc Chair
- Gary Nicholl: Use Case Ad Hoc Chair
- Joel Goergen / Vasu Parthasarathy: Electrical Interface Ad Hoc Co Chairs

Project Objectives

- Support a MAC data rate of 400 Gb/s
- Support a BER of better than or equal to 10^{-13} at the MAC/PLS service interface (or the frame loss ratio equivalent)
- Support full-duplex operation only
- Preserve the Ethernet frame format utilizing the Ethernet MAC
- Preserve minimum and maximum FrameSize of current Ethernet standard
- Provide appropriate support for OTN
- Specify optional Energy Efficient Ethernet (EEE) capability for 400 Gb/s PHYs
- Support optional 400 Gb/s Attachment Unit Interfaces for chip-to-chip and chip-to-module applications
- Provide physical layer specifications which support link distances of:
 - At least 100 m over MMF
 - At least 500 m over SMF
 - At least 2 km over SMF
 - At least 10 km over SMF