

Minutes 25 Gb/s Ethernet ad-hoc meeting – October 29, 2014

Prepared by Kent Lusted

Proposed Agenda:

- Approval of the Agenda
- IEEE patent policy reminder (see <http://www.ieee802.org/3/patent.html>)
- Approval of draft minutes for October 22
- Study Group Update – Mark Nowell
- Towards a baseline proposal for 25 Gb/s over MMF – Jonathan King
- Architectural Thoughts - 25G Interconnect – Brad Booth
- Discussion

Presentations posted at: <http://www.ieee802.org/3/25GSG/public/adhoc/architecture/index.html>

Meeting began at 8:04 a.m. Pacific.

Meeting began with the agenda presentation:

http://www.ieee802.org/3/25GSG/public/adhoc/architecture/agenda_102914a_25GE_adhoc.pdf

Matt Brown showed the links to the ad hoc page and the email reflector.

Matt Brown reviewed the Attendance information related to the ad hoc. He reminded participants to indicate full names and employer/affiliation correctly for the meeting minutes.

Matt presented the proposed agenda. From posted version, added presentation from Jonathan King. There were no objections to the agenda.

Matt reminded participants of the IEEE patent policy. (see <http://www.ieee802.org/3/patent.html>) No one responded.

The October 22 meeting minutes were posted after the meeting. No comments were received. Matt Brown asked if there were objections to approving the minutes as posted. No one responded. The October 22 meeting minutes were approved by the ad hoc.

Study Group Update -- Mark Nowell

- He will post the received presentations by the end of the day. Due to the conflict with P802.3bs, Mark will attempt to compress all presentations to Tuesday.
- The plenary week plan is to respond to comments received on the submitted documentation.
- Study Group will meet on Wednesday morning to respond to comments from the EC on the project documentation.

Presentation #1:

Jonathan King – “Towards a baseline proposal for 25 Gb/s over MMF”

See http://www.ieee802.org/3/25GSG/public/adhoc/architecture/king_102914_25GE_adhoc.pdf

- Reviewed assumptions on FEC, chip-to-module and optical interfaces, and connectors.
- Discussed potential impact of higher host loss on chip-to-module interface.
- Discussed relevance of CFP4 for twin-ax.
- Discussed compliance boards and COM impact with different MDI.

Presentation #2:

Brad Booth – “Architectural Thoughts - 25G Interconnect”

See http://www.ieee802.org/3/25GSG/public/adhoc/architecture/booth_102914_25GE_adhoc.pdf

- Reviewed assumptions in server to ToR implementations
- Reviewed copper PCS and FEC choices. Discussed potential change in solution if 50G serial comes in the future.
- Reviewed optical PCS and FEC choices.
- Discussed latency and MTTFPA impact of the different PCS and FEC combinations.
- Reviewed the use of Auto-negotiation to resolve configurations. Discussed 10G twinax being outside IEEE 802.3 and the parallel detect mechanism.
- Discussion on optical speed detection and auto-negotiation.

Meeting ended at 9:05 a.m. Pacific.

List of attendees (captured from Webex tool)

Name	company
Rick Rabinovich	alcatel-lucent
Paul Mooney	spirent
Matt Brown	apm
Rick Rabinovich	alcatel-lucent
Chad Erven	semtech
jonathan king	finisar
Arthur Marris - Cadence	cadence
Kent Lusted	intel
Ghani Abbas	ericsson
Eric Cheng(Lenovo)	lenovo
Mark Nowell	cisco
Juan-Carlos Calderon	cortina-systems
martin white	xpliant
Mark Jones	xtera
Rick Pimpinella	panduit
Dale Murray	lightcounting
Scott Irwin	mosys
Jeff Hutchins	ranovus
Adee Ran	intel
Casey Morrison	ti
Piers Dawe	mellanox
Cedrik Begin	cisco
rob stone	broadcom
Joel Adam	paloaltonetworks
Ingvar Froroth	marvell
Gary Nicholl	cisco
mike dudek	qlogic
Tony Zortea (PMCS)	pmcs
Rich Mellitz (Intel)	intel
Megha Shanbhag	te
Mike Andrewartha	microsoft
Scott Feller	inphi
Chris DiMinico	MC Communications
Ramana Kalapatapu (Comira Inc)	Comira
yong kim	broadcom
Brad Booth	microsoft
Bert Klaps	altera
Amrik	cisco
David Law	HP

Steve Trowbridge	alcatel-lucent
Andre Szczepanek	inphi
Pirooz Tooyserkani	cisco
Lokesh Kabra	synopsys
Tom Ambrose	emulex
Oded Wertheim	mellanox
Carlo Tosetti	cisco
Rita Horner	synopsys
Ali Ghiasi	independent
Tom Palkert	visi
Rob Stone (Broadcom)	broadcom
joel goergen	cisco
David Ofelt	juniper