

Minutes P802.3by 25 Gb/s Ethernet Task Force ad-hoc meeting – May 13, 2015

Prepared by Kent Lusted and Mark Nowell

Proposed Agenda:

- Approval of the Agenda
- IEEE patent policy reminder (see <http://www.ieee802.org/3/patent.html>)
- Approval of draft minutes for May 6 2015
- P802.3by Task Force Update (tentative), Mark Nowell
- P802.3by D1.0 editorial update (tentative), Matt Brown
- “Two cable types for 25GBASE-CR and 25GBASE-CR-S”, Matt Brown
- “AM0 Talking Points ”, Eric Baden
- “Support for CWM removal”, Jeff Slavick

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

Meeting began at 8:05 a.m. Pacific.

Meeting began with the agenda presentation:

http://www.ieee802.org/3/by/public/adhoc/architecture/agenda_051315_25GE_adhoc-v2.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 reminded participants to mute their lines when not speaking.

Matt presented the proposed agenda. There was a query about performing a straw poll on the ad hoc. Mark Nowell encouraged participants to use the email reflector. No one objected to the proposed agenda. The agenda was approved by the ad hoc.

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

The May 6 meeting minutes were posted shortly after the meeting. Comments were received from Ingvar Fröroth. Kent noted that the comments received were deemed editorial. The corrected minutes were posted last week. Kent offered to show the updated minutes. Matt Brown asked if there were objections to approving the minutes as posted. No one responded. The May 6 meeting minutes were approved by the ad hoc.

25GE Task Force update – Mark Nowell

- Reviewed the tentative meeting plan for the task force. The current plan is to focus Wednesday on cables and Thursday on PCS/logic. There is a hard stop of 4:00 p.m. on Friday.
- Please plan to go late both evenings in order to resolve comments.

P802.by editorial update – Matt Brown

See http://www.ieee802.org/3/by/public/adhoc/architecture/agenda_051315_25GE_adhoc-v2.pdf

- Proposed responses were posted on May 12.
- Received comment on bucket comments. Matt noted that the proposed responses indicating “bucket” should be reviewed by the Task Force. Notify Matt if there is a comment to pull from the bucket.
- Reviewed items requiring work and consensus building.
- Reviewed hot topics from Draft 1.0 comment summary.

Presentation #1:

“Two cable types for 25GBASE-CR and 25GBASE-CR-S”, Matt Brown

See http://www.ieee802.org/3/by/public/adhoc/architecture/brown_051315_25GE_adhoc-v2.pdf

- Proposed that if 3m cable operation with no-FEC is adopted, then the Task Force should consider reducing the number of cables supported to CA-S (for up to at least 3m) and CA-L (for up to at least 5m) and drop CA-N cable type.
- Reviewed the previous use-case presentations made to the SG and TF to support proposal
- BASE-R FEC is no longer required but can be used to improve performance (BER or MTTTFA) or extend reach at user discretion.
- Clarification that the Task Force will need to decide on the 3m no-FEC proposal first before considering this proposal in Pittsburgh

Presentation #2:

“AM0 Talking Points”, Eric Baden

See http://www.ieee802.org/3/by/public/adhoc/architecture/baden_051315_25GE_adhoc.pdf

- Reviewed the selection of AM0 for CWM in 802.3by
- Presentation considers the change made in March meeting as not necessary. Original decision to adopt the AM0 from 40GE was changed to the AM0 from 100GE for CWM definition in 802.3by
- Presented that gate count differences between choices are practically insignificant in current designs
- Presented that 40GE AM0 may reduce confusion if 100GE FEC logic tries to lock. Comments made that this could also be considered an implementation optimization to re-use 100GE FEC logic.
- Proposes moving back to 40GE AM0 for CWM in 802.3by

Presentation #3:

“Support for CWM removal”, Jeff Slavick

See http://www.ieee802.org/3/by/public/adhoc/architecture/slavick_051315_25GE_adhoc.pdf

- Reviewed proposal for removal of CWM from 802.3by draft specification
- Identified IEEE 1588vs, OTN and FlexE as potential issues around using CWMs. Comment made that the Task Force needs to look at what is included in our objectives
- Reviewed details of these scenarios with and without CWMs
- Summarized that removal of CWMs simplifies specification and improves ease of use
- Presented detailed review of editorial changes that the proposal would require if adopted.
- Many questions of clarification, concern, support...

Next ad hoc meeting will be announced after the interim meeting.

The ad hoc meeting ended 9:40 a.m. Pacific.

List of attendees (captured from Webex tool)

| Name | company |
|-------------------------|----------------------|
| Adam Healey | avagotech |
| Adee Ran | intel |
| Adrian Butter | us.ibm |
| Ali | gmail |
| Ali Ghiasi | gmail |
| Andre Szczepanek | inphi |
| Arthur Marris (Cadence) | cadence |
| Brad Booth | microsoft |
| Chris DiMinico | ieee |
| Chris Roth (Molex) | molex |
| Dale Murray | lightcounting |
| Dan Dove | avagotech |
| Daniel Koehler | morethanip |
| David Chalupsky (Intel) | intel |
| David Malicoat | hp |
| David Ofelt | gmail |
| Duane Remein | huawei |
| Erdem Matoglu | amphenol-tcs |
| Eric Baden (Broadcom) | broadcom |
| Gary Nicholl | cisco |
| george zimmerman | Commscope & Aquantia |

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|------------------------------|------------------|
| Ghani Abbas | ericsson |
| Greg D Le Cheminant | keysight |
| hfrazier | broadcom |
| Ingvar Froroth | marvell |
| Jacky Chang | hp |
| jean-michel | inphi |
| Jeff Slavick | avagotech |
| Jing Fang | marvell |
| John Nelson(Arista) | arista |
| Juan-Carlos Calderon | inphi |
| Kapil Shrikhande | dell |
| Ken Van Orman | spirent |
| Kenneth Jackson | sei-device |
| Kent Lusted (Intel) | intel |
| Lokesh Kabra | synopsys |
| Madhavi | barefootnetworks |
| Marco | cisco |
| Mark Gravel | hp |
| Mark Nowell | cisco |
| martin | altera |
| martin white | caviumnetworks |
| Matt Brown | apm |
| Megha Shanbhag | te |
| Mike Andrewartha (Microsoft) | microsoft |
| Mike Dudek | qlogic |
| Nathan Tracy | te |
| Oded Wertheim | mellanox |
| Omer Sella | mellanox |
| Peter Anslow | ciena |
| Phil Sun | marvell |
| Piers | mellanox |
| Pirooz Toyserkani | cisco |
| Randy k Rannow | ieee |
| Remy Chang | barefootnetworks |
| Rich Mellitz (Intel) | intel |
| Rick Rabinovich | alcatel-lucent |
| rob stone | broadcom |
| Scott Kipp | brocade |
| Scott Sommers | molex |
| Steve Trowbridge | alcatel-lucent |
| Susan Bueti | us.ibm |

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|------------------------|----------|
| Vittal Balasubramanian | dell |
| Zhongfeng Wang | broadcom |
| Zvi Rechtman | mellanox |
| Yasuo Hidaka | Fujitsu |