

Minutes P802.3by 25 Gb/s Ethernet Task Force ad-hoc meeting – August 12, 2015

Prepared by Matt Brown

Proposed Agenda:

- Approval of the Agenda
- IEEE patent policy reminder (see <http://www.ieee802.org/3/patent.html>)
- Approval of draft minutes for June 10, 2015
- P802.3by Task Force Update, Matt Brown
- P802.3by D2.0 editorial update, Matt Brown
- “Arguments for Standard 3m no-FEC DAC Solution”, Mike Andrewartha
- Discussion

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

Meeting began at 8:08 a.m. Pacific.

Meeting began with the agenda presentation:

http://www.ieee802.org/3/by/public/adhoc/architecture/agenda_081215_25GE_adhoc-v3.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 noted that since the Webex was set up by Mark and that Mark was not attending it might not be possible to extract the attendee list for this meeting.

Matt presented 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 June 10 meeting minutes were posted shortly after the meeting. Matt Brown asked if there were objections to approving the minutes as posted. No one responded. The June 10 meeting minutes were approved by the ad hoc.

Note: Ingvar Froroth sent an email during the meeting indicating that he was unable to speak at the meeting, but that he had provided feedback to Kent regarding a correction in a date reference on the first page of the June 10 minutes.

P802.by editorial update – Matt Brown

- Matt presented the Draft 2.0 editorial schedule.
- Matt presented that the only remaining “hot” topic was the “3 m DAC with no FEC” option. This was the subject of Mike’s presentation today.
- Matt presented the Draft 2.0 WG Ballot status. 24% ballot returns so far. Need 73 more returns.
- Feedback that some were not aware that a ballot was required if you support and/or did not have comments. There was a request to provide this information as well as instructions to the reflector.

Presentation #1:

“Arguments for Standard 3m no-FEC DAC Solution”, Mike Andrewartha

See

http://www.ieee802.org/3/by/public/adhoc/architecture/andrewartha_3by_adhoc_081215-v2.pdf

- Reiterating arguments for a low latency 3 m mode.
- RDMA is new capability permitting low-latency between memory buffers on two servers.
- Server to server (same rack) latency is less than 2 us. Estimate FC-FEC is less than 100 ns.
- Two links (server-switch and switch-server) mean FEC contribution is 200 ns or 10%.
- Slide 9 refers in error to 802.3bs instead of 802.3bj. Mike will send corrected slides.
- Comment on Slide 9 that FC-FEC is required regardless so there is no gate cost. Mike will send corrected slides.
- Discussion that CA-N as currently defined could meet the 3 m, no FEC with lower loss cables (e.g., larger gauge).
- Discussion whether reducing the number of cable specification would reduced the cost of cables.
- Mike Andrewartha to provide updated ‘v2’ presentation.

Discussion:

Rich Mellitz reported that results based on measurements showed host transmit SNDR much lower than specification. There was some discussion on the measurements and simulations. Rich indicated that he would capture these results in a presentation for a future ad hoc or September Interim.

Next ad hoc meeting will be August 19.

The ad hoc meeting ended at 9:35a.m. Pacific.

List of attendees (captured from Webex tool)

We were not able to get a log of the callers. However I did a screen capture of the attendee list. See below.

Participants ⚙️ ✕

Speaking: Mike A

-   **Matt Brown** (me)  
-  Adee Ran
-   Andre Szczepanek
-   Andrew Lillie
-   Aviran Kadosh
- Brian Teipen
-  Call-in User_1
-  Call-in User_12
-  Call-in User_16
-  Call-in User_7
-  Carlo Tosetti (Cisco)
-   chris
-   dan dillow
-  Gary Nicholl
-   Geoffrey Chacon (HP)
-   Gianpiero
-  Greg LeCheminant
-   Ingvar Froroth
- Jay Diepenbrock
-  Jeff Slavick
-   jgoergen
-   Jing Fang
-   John Dillard
- John Nelson
-  Kapil Shrikhande
-   Ken Van Orman
-   Kenneth Jackson
-    Madhavi
-   Mark Gravel
-   martin white
-   Megha Shanbhag
-  Mike A
-  Mike Dudek
-  Oded Wertheim
-   Paul kolesar

 Make Presenter  Raise Hand  Audio

Participants  

Speaking: Oded Wertheim

-   **Matt Brown** (me)  
-  Gianpiero
-  Greg LeCheminant
-  Ingvar Froroth
- Jay Diepenbrock
-  Jeff Slavick
-  jgoergen
-  Jing Fang
-  John Dillard
- John Nelson
-  Kapil Shrikhande
-  Ken Van Orman
-  Kenneth Jackson
-   Madhavi
-  Mark Gravel
-  martin white
-  Megha Shanbhag
-  Mike A
-  Mike Dudek
-  Oded Wertheim
-  Paul kolesar
-   Phil Sun
- Piers
-  Randy k Rannow
-  Ray
-  Rich Mellitz
-  Rick Rabinovich
-  Rita Horner
-   rob stone
-  Scott Kipp
- Tom Palkert
-  Upendranadh Kareti
-  Vittal Balasubramanian
-  Yasuo Hidaka

 Mike Decoster  Dale Wood 