

Meeting Minutes
IEEE P802.3bq Channel Model Ad Hoc
October 2nd, 2013
Prepared by Pete Cibula and Brad Booth

Meeting Agenda:

- 1) Roll call - Record attendance, attendees' names and affiliations
- 2) Reminder of IEEE patent policy: www.ieee802.org/3/patent.html
- 3) Houskeeping:
 - a) Placeholder
- 4) New business for the October 2nd ad hoc meeting as follows:
 - a) Channel Modeling ad hoc sub-team updates with discussion
 - i) MDI & isolation path (M. Grimwood and G. Zimmerman) – Update on data collection for MDI and isolation path with discussion.
 - ii) PCB transmission lines & noise for 10GBASE-T systems (B. Booth and P. Cibula) - Update on data collection on PCB transmission lines and noise for 10GBASE-T systems with discussion.
 - iii) MDI-to-MDI cabling channel (C. DiMinico and W. Larsen) – Update on MDI-to-MDI cabling channel efforts with discussion
 - b) New contributions with discussion
- 5) General Discussion and meeting wrap-up
 - a) Review action items from the October 2nd meeting
 - b) Suggestions for future presentations
 - c) Next steps/future meetings

The 8th meeting of the P802.3bq Channel Modeling Ad Hoc was called to order at 8:09 AM Pacific Time.

- 1) Participants were asked to email B. Booth or P. Cibula a note confirming their attendance. The attendance record at the bottom of these minutes is a compilation of email confirmations and an online meeting log.
- 2) P. Cibula reminded everyone of the patent policy. Those not familiar with it were directed to the URL above.
- 3) Houskeeping & general updates:
 - a) The agenda was reviewed with those in attendance; no modifications were suggested and the agenda was approved without opposition. The agenda stands approved.

- b) Participants were informed that new Cable Channels were recently posted and that the Host PCB Trace Channel overview presentation was updated (additional details are available in the following subteam updates).
 - c) Participants were informed that the [September 18th meeting minutes](#) were posted and are available for review.
- 4) The meeting was then opened to hear new business for the October 2nd ad hoc meeting as follows:
- a) Channel Modeling ad hoc sub-team updates
 - i) MDI & isolation path (M. Grimwood and G. Zimmerman)
 - (1) Subteam participants are working to have 16 port measurements ready for the November meeting and are moving ahead with preliminary measurements.
 - ii) PCB transmission lines & noise for 10GBASE-T systems (B. Booth and P. Cibula).
 - (1) Subteam participants are continuing their effort to evaluate the effects of variations in channel impedance using 90 ohm and 110 ohm targets, as well as to characterize the robustness of the host PCB trace channel model with respect to stability, causality, and passivity.
 - (2) Dave Chalupsky clarified that the host PCB channel Model contribution presented at the York interim meeting (chalupsky_3bq_01_0913.pdf) was not updated but that PSNEXT plots were updated [overview presentation](#) associated with the channel. There are no changes to s16p file.
 - iii) MDI-to-MDI cabling channel (C. DiMinico and W. Larsen).
 - (1) The subteam reported that they have provided the set of MDI-to-MDI cable channels necessary for PHY participants to begin evaluating PHY solutions/characteristics, thus meeting their charter and stated goals. PHY participants polled at the last MDI-to-MDI channel subteam meeting agreed that the current dataset is appropriate and sufficient to begin those efforts.
 - (2) The subteam currently plans to maintain their 3 week meeting schedule and will continue to support other channel modeling sub-teams and PHY activities as needed.
 - (3) Participants were notified of two channel configurations recently submitted by Wayne Larsen (0.5m patch cord + 3m horizontal cable + 0.5m patch cord) and Mike Good (3m patch cord + 24m horizontal cable + 3m patch). Touchstone files for these and other cable channels are available in the [Channel Data section](#) of the P802.3bq public area.
 - (4) Many thanks to the MDI-to-MDI cabling channel champions and participants for their contributions!

b) Closing discussion – It was noted that there is a potential conflict between the proposed date for the next channel modeling ad hoc meeting and an upcoming industry event. Participants agreed that the meeting timeslot doesn't present a significant issue.

5) The next meeting was scheduled for Wednesday, October 16th, 2013 at 8:00AM PDT.

The P802.3bq Channel Modeling Ad Hoc meeting was adjourned at 8:30 AM Pacific Daylight Time.

Meeting Attendance

Name	Employer	Affiliation (if different)
Brad Booth	Microsoft	
Brian Buckmeier	Bel Fuse (Please confirm, thx!)	
Dave Chalupsky	Intel	
Pete Cibula	Intel	
Chris DiMinico	MC Communications	Panduit
Thuyen Dinh	Pulse	
Harry Forbes	Nexans	
Mike Good	Berk-Tek	
Mike Grimwood	Broadcom	
Dave Jeskey	Sentinel Connector Systems	
Andrew Jimenez	Anixter	
Wayne Larsen	Commscope	
Rich Mellitz	Intel	
Jeff Poulsen	Leviton	
Dominik Schweizer	R&M	
Sterling Vaden	OCP	
Bob Wagner	Panduit	
Peter Wu	Marvell	
George Zimmerman	CME Consulting	Commscope, Aquantia