

IEEE802.3bw Task Force

- Meeting started at 09:00
- David Law (803.3 working group chair) opened the meeting and announced that this is the first Task force meeting
- David Law announced Helge Zinner as recording secretary for Wednesday (10) and Thursday (11)
- The first task of the group is the voting of the Task Force chair
 - Thomas Hogenmüller volunteered for this job
- Thomas H. left the room and David L makes a Motion on Thomas H. as Task Force chair.
- **Motion #1:** Motion to appoint Thomas H. to be the Task Force chair for IEEE802.3bw
 - Moved: Mehmet Tazebay
 - Seconded: Albert Kuo
 - No discussion
 - Vote: Yes=20, No= 0, Abstain = 1 (21 people in the room)
 - Motion passes
- Thomas showed the agenda for today
 - http://www.ieee802.org/3/bw/public/Hogenmueller_3bw_01_0914.pdf
- Everyone introduced himself and sign in sheet was distributed
- Thomas asked for question to the Agenda
 - Geoff mentioned that the PoDL group wants to have a 15min slot about a PoDL update which was not on the agenda. Dave D. wants to give an update after lunch (Wednesday)
 - No other comments
- Thomas shows reflector and web information
 - New URL for the task force and new private area
 - Thomas announced Password and Email
- Thomas reminded everyone to use imat to sign in
 - Natalie W. makes a comment that the web page imat.ieee.org is not accessible right now but it is working by using VPN.
- Geoff read out loud the patent policy at 9:15 am
- Thomas calls for potentially essential Patent claims at 9:20am
 - No one responded

- Thomas asked if someone is from the press
 - No one announced their presence
 - Thomas read out loud other Guidelines for IEEE WG meetings
 - Thomas announced that we will discuss technical solutions in the task force
 - Thomas asked if there are any comments for Mehmet T. as Vice chair
 - Mehmet volunteers as vice chair for this group
 - No comments
 - **Motion #2:** Motion to appoint Mehmet T. (Broadcom) to be the Task Force vice chair for IEEE802.3bw and Chris Donahue (UNH-IOL) as chief editor
 - Approved by voice without opposition
 - Geoff explained the IEEE802.3 Standard process
 - He shows the current position of the Task Force within the process
 - He explained that we still have open Objectives (PoDL and Autoneogation) before we will have the first draft version
 - Thomas showed the timeline of the group
 - Timeline will not be discussed on Wednesday
 - **Motion #3:** Thomas requested to change the agenda. Mike Tu (Broadcom) presentation will be moved after presentation from William Lo.
 - Approved by voice without opposition
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- William showed a presentation of PoDL influence on Autoneogation
 - http://www.ieee802.org/3/bw/public/Lo_3bw_01a_0914.pdf
 - PODL requires high pass filtering on data path
 - William shows implication to 1TPCE compared to RTPGE
 - Transmitter needs to run faster (8ns: normal is 15ns)
 - William shows possible solutions – bypass the filter
 - Questions: Mehmet agreed to have a open task
 - Questions: Ahmad C. mentioned that the inductors are the challenge, voltage limit and noise level needs to be different than for RTPGE
 - William agreed that those are valid and open points. Work has just started
 - Mike Tu (Broadcom) showed a presentation about “Autoneg Signaling under noisy conditions”
 - http://www.ieee802.org/3/bw/public/tu_3bw_01a_0914.pdf

- Major point: T3 should consider $\geq 15\text{ns}$ due to the AFE baud rate being at 66.6MHz
 - Comment Mehmet: we will probably have two different coupling networks
 - Question Geoff: wants to have a definition on the channel: Mehmet mentioned that the term means: 1pair cable 4 inline connectors
 - Comment Natalie: general question to Autoneg, 100Mbit PHY should not try to detect whether a 1Gig PHY is connected.
- Coffee break 10:10 to 10:30
- Mehmet summarizes discussion on Autoneg in RTPGE
 - Autoneg is good from PHY perspective
 - Next state: Autoneg signaling on the line
 - General feeling -> one more cycle is required
 - Risk: different requirements from PoDI, startup requirements are the challenge as well
 - PHY ad-hoc discussion is needed to get a robust solution
 - State machines are complicated
 - Corner case analysis not done yet
 - Don't look promising from Mehmet's point of view
- Thomas showed a presentation of automotive requirements which was shown at the RTPGE group
 - http://grouper.ieee.org/groups/802/3/RTPGE/public/may12/hogenmuller_01_0512.pdf
 - This presentation was shown to align on automotive requirements for those who are new in this topic
 - Presentation was shown already at RTPGE and wasn't modified
- Helge showed an update on the automotive requirements
 - http://grouper.ieee.org/groups/802/3/RTPGE/public/july12/zinner_02_0712.pdf
 - This presentation was shown to align on automotive requirements for those who are new in this topic
 - Presentation was shown already at RTPGE and wasn't modified
 - Discussion from Meborach (Cadence): Liason with JasPar

- Natalie showed a presentation about the automotive voltage and fault conditions
 - http://www.ieee802.org/3/bw/public/Wienchowski_3bw_02_0914.pdf
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- lunch break: 11:40 am until 1:30 pm
- Dave gave an update of the PoDL group and introduced Andy
- Andy Gardner (Linear) shows a presentation of PoDL
 - Momentary cable short
 - Requirements to survive cable shorts
 - Dave mentioned that this problem will be even more critical for 802.3bw
- Mehmet gave a presentation on EMC Environment and Test
 - http://www.ieee802.org/3/bw/public/buntz_tazebay_3bw_01_0914.pdf
 - M. mentioned that the shown set is not complete
- Howard gave a presentation on his first draft version of IEEE802.3bw D0.1
 - http://www.ieee802.org/3/bw/private/8023bw_D0p1.pdf
 - The document is just a contribution by now – no official status
 - The document shall help to understand the technology
 - Curtis D. tracked the comments and discussions
- Thomas announced that he would like to make another interim meeting in October to provide a draft to the Working Group for the plenary in November for Working Group ballot
 - An interim needs to be announced 30 days in advance
 - The group discussed different possible dates
 - 1st possible date 19/20th of October in Detroit hosted by General Motors
 - 2nd possible date: week of 15th to 16th in Bay-Area hosted by Marvell
 - 3rd possible date: week of 15th to 16th in UK hosted by Jaguar Land Rover
 - Straw Poll: Who is in favor to have the meeting on 19/20 October in Detroit?

- 10 yes, 1 no, 8 abstain (19 people in the room)
 - Thomas H. decided that the interim will be done at 19/20th in Detroit
 - Thomas H. asked the group who will join the meeting?
 - 8 yes, 4 maybe, 7 no
 - Natalie was asked to host the meeting and she agreed
- David L. made a suggestion to make a ad hoc for clause 34 and 45
 - Mehmet was confirmed as the ad hoc chair
- Curtis went step by step through the 43 comments (all from Geoff T.)
- Meeting ended at 06:00 pm

Thursday

- Meeting started at 09:00 am
- Thomas reminded everyone that the group will have another interim at October 19/20 in Detroit -> Natalie will announce the meeting information
- 09:50 am group was done with the comments
- Coffee break 9:50 am to 10:15am
- Thomas made a proposal to go through the documents (contribution by Howard) step by step all together
- Lunch break 11:50am to 1:00 pm
- Group went through the document step by step to make comments
- Thomas created a comments folder (comments received) on the task force page
 - <http://www.ieee802.org/3/bw/comments/index.html>
 - Thomas uploaded the comments on the web page, <http://www.ieee802.org/3/bw/comments/100BASE-T1 CommentResolution 140911 v0 1.pdf>

- **Motion #3:** That the P802.3bw Task Force adopt http://www.ieee802.org/3/bw/private/8023bw_D0p1.pdf plus editorial improvements to be implemented by the TF editor as documented on <http://www.ieee802.org/3/bw/comments/100BASE-T1 CommentResolution 140911 v0 2.pdf> as the BASELINE TEXT for the Task Force draft (to be assigned as D1.0). D1.0 to be distributed for initial task force off-line review which is to be done before the Oct., 2014 Interim Meeting to be held in Detroit (area), Michigan on Oct. 19-20, 2014.
 - Moved: Mehmet T.
 - Seconded: Natalie W.
 - No discussion
 - Vote: Yes=13, No= 0, Abstain = 1 (13 people in the room)
 - Motion passes

- **Motion #4:** Motion to adjourn
 - Moved: Mehmet Tazebay
 - Seconded: Efstathios Larois
 - No discussion
 - Motion passes by voice without opposition