Minutes 25Gb/s Ethernet Architecture ad-hoc meeting 09/02/14

Proposed agenda:
- Approval of the Agenda
- IEEE patent policy reminder http://www.ieee802.org/3/patent.html
- Approval of draft minutes for August 28
- Objectives and CSD update – Mark Nowell
- Time permitting:
  o Adee Ran et al presentation

Matt Brown – Agenda and opening remarks
- Matt presented the agenda slides.
- Matt reminded everyone of the IEEE patent policy (http://www.ieee802.org/3/patent.html).
- Matt asked if anyone had any objection to the agenda as presented. There were no objections.
- Matt asked if anybody objected to the posted Aug 28 draft minutes. There were no objections. Aug 28 minutes approved.

Matt noted late presentations received from Adee Ran et al and Mark Lutkowitz will be posted on the ad hoc web page.

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

Mark Nowell -- 25 Gb/s Ethernet over a single lane for server interconnect Study Group: status and work
- reviewed slides 4 to 7
- slide 4, marked up last meeting
- straw poll held on survey monkey, 22 respondents
- slide 5, chicago rules, no clear winner/loser
- slide 6, pick one, option D gets almost no support
- slide 7, proposes new straw poll, eliminate option D, and add Chicago Rules question for opposition to option

Agreed to retake the same straw poll eliminating option D and adding new question with Chicago rules asking which option you would oppose.

Discussion

Matt asked for each of the CR objective options for reasons for objecting:
Option A
- excludes large portion of applications, e.g., intra-rack, that require the extra reach
- hard to reach adjacent rack
- interop issues WRT CR4 break-out mode

Option B
- for 3 m max. applications, still paying cost of 5 m
- forces use of RS-FEC or similar (but can be addressed by having non-FEC mode)

Option C
- permits more than one PHY to be specified (but does not preclude a single PHY satisfying both objectives)

Option E
- precludes any changes to tx/rx if necessary given the way it's worded
- does not give guidance on reach
- unclear to people unfamiliar with this specification (e.g., reference to Clause 93)
- not clear what it supports relative to the CSD (5C)

A new form of objective was proposed where there are two objectives: the first objective specifies a PHY with one reach and the other specifies a mode of operation or channel for the other reach. After some discussion it was concluded that this is not better than Option C.

John D asked the group if everybody agreed that 3 m (intra-rack) and 5 m (inter-rack) are distinct applications. Nobody expressed disagreement.

Matt asked the group if there are any objections to option C given the current discussions. There were no objections. It was noted that Option C as written permits the task force to develop two PHYs, but also that it does not preclude a single PHY.

Mark will send out new straw poll using survey monkey as noted above.

Adee agreed that it was not necessary to present his slides at this meeting given the progress that was made. However, he asked that the presentation be posted on the ad hoc web page and that attendees review his presentation and provide feedback.

Attendees (from Webex attendance)

Mark Nowell   Cisco
jonathan king Finisar
Rita Horner   Synopsys
Matt Brown   APM
Joel Goergen   Cisco
Paul Mooney   Spirent
John D 'Ambrosia Dell
salvatore rotolo   ST
Erdem Matoglu   Amphenol-tcs

mike dudek   QLogic
Dale Murray   Lightcounting
Ingvar Froroth Marvell
Peter Anslow   Ciena
Mark Lutkowitz   Fibereality
George Zimmerman   CME consulting
Megha Shanbhag   TE
Rich Mellitz   Intel
Tony Zortea   PMC-Sierra
Frank Straka   Panduit
Piers Dawe   Mellanox
Nathan Tracy   TE
Scott Kipp   Brocade
sam sambasivan   AT&T
Vineet Salunke   Cisco
Adee Ran   Intel
John D   Vitesse
Andy Zambell   FCI
Mark Gustlin   Xilinx
Dave Brown   Semtech
Marty Spadaro   Vitesse
Chris DiMinico MC Communications/ PHY-SI LLC/Panduit
Paul Kolesar   CommScope
martin white   Xpliant
Jeffery Maki   Juniper
David Chalupsky   Intel
john petrilla   Avagotech
pirooz   Cisco
Ron Muir   Jae
Beth Kochuparambil   Cisco