Closing Report

IEEE 802.3 Working Group
25GBASE-T Call For Interest
David Chalupsky, Intel

San Antonio, Texas
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Contributors and Supporters

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- Amrik Bains, Cisco
- Mark Nowell, Cisco
- Ghani Abbas, Ericsson
- Jon Lewis, Dell
- Pete Cibula, Intel
- Allen SJ Wang, Lenovo
- Brad Booth, Microsoft
Value Proposition Summary

Compared to adjacent markets such as Cloud or High Performance Computing…

- The Enterprise Server market (~75% of server units shipping this year) is moving at a measured pace through the Ethernet port speeds
  - Largely multiple ports of 1000BASE-T today, in transition to 10G, >10G in a few years
- This market values ease of use, ease of migration, mixed environments, mixed topologies over getting to the highest speed
- BASE-T Ethernet serves this market well
- Standardizing 25GBASE-T can provide a roadmap from 1G->10G->25G->40G for this market
Consensus

• CFI Consensus-building presentation held Tuesday, November 4, 2014
  – (results next page)

• 25GBASE-T discussion held in P802.3bq TF during September 2014 interim meeting
  – Straw poll indicates unanimous support of task force to bring 25GBASE-T into P802.3bq
CFI Straw Poll Results  
November 4, 2014

• Should a study group be formed for 25GBASE-T?
  • Y: 60  N: 1  A: 8
  • Room count: 82

• I would participate in a 25GBASE-T study group in IEEE 802.3
  – Tally: 37

• My company would support participation in a 25GBASE-T study group
  – Tally: 25
WG Motion

• Request that the IEEE 802.3 WG form a study group to develop PAR and CSD modifications to P802.bq to add 25GBASE-T to that project.

• Moved: David Chalupsky
Seconded: George Zimmerman
Procedural (> 50%)

Yes: _____  No: _______  Abstain: _______
Announcements

• If the motion to form a study group is approved:
  – First study group meeting would be during January 2015 IEEE 802.3 interim meeting in Atlanta (week of Jan 12th, 2015).
  – The study group web page and e-mail reflector will be created and announced.
  – Intention to form ad hoc to hold conference calls ahead of January Interim meeting. Will be posted on SG web page and announced on the reflector.

• Thank you again to the presenters, expert panelist, and supporters.
Thank You!
The Spaces of BASE-T

ENTERPRISE FLOOR
Office space, for example

DATA CENTER

1000BASE-T
2.5/5G?
10GBASE-T
25G?
40G

Row-based (MoR/EoR)
Rack-based (ToR)
Floor or Room-based

Data Rate
Reach

5m
30m
100m
Call For Interest

The rapid progress of the 25 Gb/s Ethernet Study Group highlighted the broad market potential for 25 Gb/s Ethernet switch-to-server interconnect in a range of data center wiring architectures including within-rack, adjacent rack, middle-of-row, and end-of-row switching topologies. At the 10 Gb/s rate, the use of BASE-T for these applications is growing as an augment to fiber and direct-attach twinax copper. The IEEE P802.3bq 40GBASE-T Task Force has been addressing switch-to-server interconnect for these topologies at a 40 Gb/s rate. At this time, there is no path for data centers to utilize cost-effective and backwards compatible BASE-T technology for 25 Gb/s Ethernet. This Call For Interest is a request for the formation of a study group to explore 25 Gb/s BASE-T Ethernet and potentially extending the work of the IEEE P802.3bq Task Force to include it.