Opening Report

IEEE 802.3 Working Group

2.5G and 5G Ethernet Backplane and Short Reach Copper Cable Call For Interest

Yong Kim, Broadcom

July 13, 2015, 802.3 Plenary

Overview and Motivation

- CFI to initiate a Study group to study the need for 2.5G and 5G Ethernet operating on Backplane and Short Reach Copper cabling, higher speed than current 1 GE rates that are deployed.
- Target applications include
  - Enterprise and Cloud storage market using high capacity HDDs (and SSDs) is transitioning from dedicated drive interface to networked native Ethernet interface. The transition is motivated by “block” storage access method to “object” storage. This represents broad market applicability.
  - Long term bandwidth needs of HDDs, which serve the low-cost and deep storage, are 2.5Gb/s and 5Gb/s.
- This Call For Interest Consensus Building presentation will examine the market drivers and technical feasibility of 2.5 Gb/s and 5 Gb/s Backplane and Short reach copper cabling.

Logistics

- CFI information posted at
  http://www.ieee802.org/3/cfi/request_0715_2.html

- Consensus building presentation

  Date: Tuesday, July 14th, 2015

  Time: 7:30 PM to 9 PM

  Room: TBD

- The Vote to determine if a Study Group will be formed will take place at the IEEE 802.3 Closing Plenary on the afternoon of Thursday 16th, 2015.