100GbE Per Lambda for Data Center Workshop
Panel4: Wrap-up Session

June 12 – 13, 2014

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Thanks to Our Planning Committee

- John D'Ambrosia (Dell), Ethernet Alliance
- Tom Hausken, OIDA
- Howard Frazier, Broadcom
- Mark Nowell, Cisco
- Tom Fawcett, JDSU
- Dale Murray, LightCounting

Summary Impressions (1 of 4)

- Initial strong industry interest
  - Feedback – great to see the quality of analysis done
- Users have diverse needs, but dominated by smaller set of large companies
  - Reach (Key target reach 500m to 2km SMF)
  - Bandwidth
  - Architecture

Summary Impressions (2 of 4)

- Total Cost of ownership needs to be considered
  - Module
  - System
  - Cabling
  - Support
  - Test equipment
  - Qualifications
  - Etc.
- Fragmentation this two ways:
  - N times the costs above
  - Volumes of each niche are smaller.
- Development cost of optics is much greater than electronics in modules. Consideration between optics / electronics for solution optimization.

Summary Impressions (3 of 4)

- 1x100G seems to be technically feasible within the lifetime of IEEE P802.3bs (400GbE)
  - Very smart people disagreeing on approach (PAM4 versus DMT)
  - Why Do 2x50G
  - Need for common channels and parameters for evaluating different solutions.
  - Historical points of reference where there was over-optimism
- More data on the debate between 25 to 100 versus 25—50—100 needed.
- 400GbE need timeframe?

Summary Impressions (4 of 4)

- Agreement on 100GbE single lambda as ultimate solution, but….
  - What is it?
  - When is it needed?
- Standards have played a role in high volume / successful technologies.
  - Is past performance an indication of future behavior?
  - Different markets with different needs?

Actions

- Further research / analysis needed on 100GbE single lambda solutions
- If not in standards body, need a forum to continue industry discussion
- Industry discussion on market fragmentation?