



IEEE 802.3
Higher Speed Study Group
Tuesday Discussions

Orlando, FL
March 12, 2006

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Observations (100G Broad Market Potential)

- Increased # of supporters for 100 GbE from end user community
- “Broad set of applications”
 - Keeps increasing

BMP – HSSG Historical Perspective

“Nuggets” from End User Community

- CFI Supporters – individuals from AMS-IX, Google, Internet Multifeed Co., Japan Internet Exchange Co. Ltd., LBNL, Level3, NTT America, T-Systems, Yahoo
- End User Input
 - bennett_01_0906 – Mike Bennett, LBNL
 - bennet_02_0906 – Mike Bennett, LBNL
 - Title – “Surveying the Industry For a Higher Speed Ethernet”
 - Includes individuals from: Yahoo, Comcast, Cox, Cisco (IT), AMS-IX, Equinix, LINX, IX in Japan, Level 3, ESnet, Brookhaven National Lab, Fermi National Lab, Lawrence Berkeley Lab, Lawrence Livermore Lab, NERSC
 - Note – companies already doing LAG of 4 to 8 10G Links
 - Level 3 – 8 x10 GbE, IX up to 8 for IX noted, Yahoo – 4 x10GbE, LLNL 4x10
 - schoenmaker_01_0906 (Peter Schoenmaker, NTT)
 - “100 Gb/s should be minimum target speed”
 - 2km meets most of their distance needs
 - steenman_01_0906 (Henk Steenman, AMS-IX)
 - “at least 100 Gb/s”
 - “Fiber length between 10 and 40 km on Single Mode fiber”

BMP Slide #2 - HSSG Historical Perspective

“Nuggets” from End User Community

- lee_01_0307.pdf (Donn Lee, Google)
 - “Saturating 10G and 1T Pipes”
 - “Need it today. More so next year.”
- bechtel_01_0307 (Adam Bechtel, Yahoo)
 - “A Web Company’s View on Ethernet”
 - “Real need for at least 80GE today (ideally more)”
- sprenger_01_0307 (Troy Sprenger, EDS)
 - “100 Gigabit Ethernet – Tomorrow is Too Late”
 - “Lack of 100G in the Infrastructure is depressing sale of 10G ports at the server level”
- bach_01_0307 (Andy Bach, NYSE)
 - “The Thirst for More Bandwidth”
 - “Approaching 100 Gig ceiling by 2010”
- seely_01_0307 (Ted Seely, Sprint)
 - “Carrier Hurdles To Meeting 10GE Demand”
 - Introduction of 100GE end of 2009, early 2010 considered already too late by many.



Straw Poll #3 (January 2007 Interim)

- Based on adopted objectives (from November Plenary), does the HSSG believe that there is broad market potential for 100 GbE?

Results

- Yes - 52
- No – 17
- Abstain - 16



Straw Poll #1

- Based on adopted objectives for PAR A, does the HSSG believe that there is broad market potential for 100 GbE?

Results

- Yes - 71
- No – 2
- Abstain - 10

Contributions March Plenary – 40G MAC Rate

■ Presentations

- vandoorn_01_0307 (Schelto Vandoorn, Intel)
 - 40 Individuals from 30 companies
- frazier_01_0307 (Howard Frazier, Broadcom)

Straw Poll #9 (January 2007 Interim)

- Should the HSSG continue to study 40Gb/s operation?

Results

- Yes - 22
 - No – 33
 - Abstain – 21
-
- Requested by Shimon Muller



Straw Poll #2

- Should the HSSG continue to study 40Gb/s operation?

Results

- Yes - 35
- No – 33
- Abstain – 20



Straw Poll #3

- Does the HSSG believe that there is broad market potential for 40 GbE (in addition to 100GbE)?

Results

- Yes - 23
- No – 32
- Abstain - 36



Contributions March Plenary – 40 km Objective

- goergen_02_0307 (Joel Goergen, Force10 Networks)
- Woodward_01_0907 (Ted Woodward, Telecordia)

Motion (January 2007 Interim)

Motion #5: The HSSG adopt an objective of:
Support at least 40-km on SMF.

Results

All

- Yes - 38
- No - 10
- Abstain - 32

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- Yes - 12
- No - 6
- Abstain - 16

Straw Polls (January 2007 Interim)

Straw Poll #2: Does the HSSG feel that the current adopted objectives (November 2006) should be addressed by a single PAR?

Results

- Yes - 63
- No - 3
- Abstain - 18

Straw Poll #12: Does the HSSG feel that the current adopted objectives should be addressed by a single PAR?

Results

Yes - 28
No - 16
Abstain - 32

Straw Poll #4

- Does the HSSG believe that the 40km reach objective should be added to HSSG PAR A?

Results

- Strawpoll withdrawn for consideration at this time until the SG hears presentations on Wednesday related to 40 km technical / economic feasibility



Straw Poll #5

- If 40G were adopted as an objective, the HSSG feels it should be addressed by:
 - a. HSSG PAR A
 - b. a new PAR

Results

- Option A - 18
- Option B - 32
- Abstain - 33