



IEEE 802.3
Higher Speed Study Group
Thursday Discussions

Orlando, FL
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John D'Ambrosia, Chair
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Motion #1

- Move that:
 - The HSSG requests that IEEE 802.3 extend the Higher Speed Study Group.

- Moved by – Schelto Vandoorn
- Second by – Mark Nowell

- Procedural (>50%)

- All Yes - 58 No – 0 Abstain - 0
- Motion Passes

Straw Poll #13

- I would be interested in attending an HSSG Interim meeting in September in Korea per the offer to host by Samsung Electronics, ETRI, and TTA.

- **Results**

Yes - 27

No - 29

Straw Poll #14

- I would be interested in attending an HSSG Interim meeting in September in Korea per the offer to host by Samsung Electronics, ETRI, and TTA, but can not because of date of event.
- Results
 - Yes - 10
 - No – 12
 - Abstain - 17

Where Are We – Current Objectives

- **Straw Poll #1** - Based on adopted objectives for PAR A, does the HSSG believe that there is broad market potential for 100 GbE? (All: 71/2/10)
- **Straw Poll #6** - The HSSG has demonstrated economic feasibility for a 10km single-mode PMD at 100 Gb/s. (All: 59/0/16)
- **Straw Poll #7** - The HSSG has demonstrated economic feasibility for a 100m multi-mode PMD at 100 Gb/s.(All: 47/0/25)
- **Straw Poll #8** - The HSSG has demonstrated technical feasibility for a 40 km SMF PMD at 100 Gb/s. (All: 30/6/40)
- **Straw Poll #9** - The HSSG has demonstrated economic feasibility for a 40 km SMF PMD at 100 Gb/s. (All: 12/15/50)
- **Straw Poll #10** - Does the HSSG believe that the 40km reach objective should be added to HSSG PAR A? (All: 14/26/43)

Where We Are – Other Areas

- **Straw Poll #2** - Should the HSSG continue to study 40Gb/s operation? (All: 35/33/20)
- **Straw Poll #3** - Does the HSSG believe that there is broad market potential for 40 GbE (in addition to 100GbE)? (All: 23/32/36)
- **Straw Poll #11** - The HSSG should adopt a copper objective (All: 34/15/36)

Where We Are – How to Proceed (1/2)

- **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

Where We Are – How to Proceed (2/2)

■ **Straw Poll #12**

Does the HSSG feel that the chair should request to present “PAR A” to the IEEE 802.3WG at the July Plenary?

■ Results

Yes – 48

No - 3

Abstain - 28

Motion #2

Motion:

Modify the 2nd Economic Feasibility response to change ‘rival technologies’ to ‘alternate approaches or technologies’ in HSSG_PARA_5C_WD_0107:

New response would be:

“Representations from component and equipment suppliers and their customers indicate that Ethernet at 100 Gb/s will offer better value and lower cost than alternate approaches or technologies.”

Moved by John Jaeger

Second by: Mark Nowell

Technical ($\geq 75\%$)

All Yes: 59

No: 1

Abstain: 4

Motion Passes

Motion #3

Motion:

Motion: Modify the 1st Broad Market Potential response to change ‘market requirements’ to ‘market need’ in HSSG_PARA_5C_WD_0107:

New response would be:

Rapid growth of network and internet traffic has placed high demand on the existing infrastructure motivating the development of higher performance links. Quantitative presentations have been made to the IEEE 802.3 HSSG indicating significant market need for 100 Gb/s Ethernet across a wide range of applications

Moved by John Jaeger

Second by: Mark Nowell

Technical ($\geq 75\%$)

All Yes: 62

No: 0

Abstain: 8

Motion Passes

Motion #4

Motion: The HSSG should adopt an objective to specify a single PCS to be used for all PMDs

Moved by Steve Trowbridge

Second by: Ted Woodward

Technical ($\geq 75\%$)

All Yes: 13

No: 43

Abstain: 15

Motion Fails



Motion #5

Motion: The HSSG would like to hear Motion #4

Moved by: Tom Dineen

Second by: John Dallesasse

Procedural (>50%)

All Yes: 45

No: 5

Abstain: 22

Motion Passes

Motion #6

- Motion: The HSSG has demonstrated broad market potential for 100 GbE based on adopted objectives for PAR A. PAR A objectives (to be uploaded as HSSG_PAR_A_Objectives_0307.pdf) are:
 - Support full-duplex operation only.
 - Preserve the 802.3/Ethernet frame format at the MAC Client service interface.
 - Preserve minimum and maximum FrameSize of current 802.3 Std.
 - Support a speed of 100 Gb/s at the MAC/PLS service interface.
 - Support at least 10km on SMF.
 - Support at least 100 meters on OM3 MMF.
 - Support a BER better than or equal to 10^{-12} at the MAC/PLS service interface.

Moved by: Mark Nowell

Second by: John Jaeger

Technical ($\geq 75\%$)

All Yes: 59

No: 5

Abstain: 12

Motion Passes

Motion #7

- Motion: The HSSG has demonstrated economic feasibility for a 10Km SMF 100 Gb/s PMD.

Moved by: Dan Dove

Second by: Chris DiMinico

Technical ($\geq 75\%$)

All Yes: 52 No: 1 Abstain: 11

Motion Passes

Motion #8

- Motion: The HSSG has demonstrated economic feasibility for a 100m multi-mode 100 Gb/s PMD.

Moved by: Dan Dove

Second by: Mike Dudek

Technical ($\geq 75\%$)

All Yes: 54 No: 0 Abstain: 10

Motion Passes

Motion #9

- Motion: The HSSG modify the meeting format to use a 2 minute question / comment requirement.
- Moved by Tom Dineen
- Second by Paul Kolesar
- Procedural Motion (>50%)
- Results
- All: Y:14 N:52 Abstain: 12
- Motion Fails

Action Plan

- Tutorial Preparation
- At least 40 km PMD Objective
 - Technical feasibility
 - Economic feasibility
- 40G MAC Rate
 - Add as an objective?
 - Economic feasibility
 - Broad market potential
 - What pmds?
- Cu
 - Add as an objective?
- # of PAR?
 - Get the work done for all of it



Straw Poll #15

- I intend to attend the April interim meeting in Ottawa.
- Count - 40



Straw Poll #16

- I intend to attend the May Interim meeting in Geneva.
- Count - 45