



IEEE 802.3
Higher Speed Study Group
Opening Plenary Report

San Francisco, Ca
July 16, 2007

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IEEE 802.3 HSSG Organization

- Study Group Chair:
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- HSSG web page URL:

[*http://www.ieee802.org/3/hssg/*](http://www.ieee802.org/3/hssg/)

Interim Meetings

- April 17 – 19, Ottawa, ON, Canada
 - Hosted by Nortel Networks (Thanks!)
- May 28 – 31, Geneva Switzerland
 - Hosted by ITU
- July 16, San Francisco, CA
 - Adjacent to and co-located with this week's Plenary

April Interim Meeting

- April 17 – 19, 2007
- Ottawa, ON, Canada
 - Hosted by Nortel Networks
- 94 attendees
- 20 Presentations
 - Strawmans –
 - 40G MAC Rate Objective
 - 40km Objective
 - Cu Objective

April Interim – 40G MAC Rate

- Straw Poll #1 - Does the HSSG believe that there is broad market potential for 40 GbE (in addition to 100GbE)? (All: 24 / 24 / 26)
- Straw Poll #2 - Should the HSSG adopt the following objective - “Support a speed of 40 Gb/s at the MAC/PLS service interface.” (All: 22 / 24 / 24)
- Straw Poll #11 - A standard for higher speed Ethernet should specify: A. 100 Gbps operation only; B. 40 Gbps operation & 100 Gbps operation; C. No Opinion (All: 27 / 26 / 14)
- Straw Poll #13 - If a 40G objective is to happen, should it be included in: A. PAR A; B. Separate HSSG PAR; C. A separate SG effort (All: 28 / 16 / 16)
- Straw Poll 14 - Should the 100G PAR A (including objectives approved at this meeting) be delayed due to lack of consensus on an additional 40G MAC Rate Option? (All (Y/N): 0 / 39)

Results from April Interim

- Adopted 1 New Objective
 - Move that the HSSG adopt an objective: to support at least 10m over a copper cable assembly (A: 51/0/15, 802.3: 23/0/7)
- Moved 2 Objectives into PAR A
 - Move the HSSG add the 40km reach objective to PAR A: Support at least 40km on SMF. (A: 49/1/11, 802.3: 22/1/7)
 - Move that the HSSG include the copper objective, “to support at least 10m over a copper cable assembly,” into PAR A. (A: 47/0/22, 802.3: 20/0/11)
- PAR / 5 Criteria Response: Updated and confirmed

May Interim Meeting

- May 28 - 31, 2007
- Geneva, Switzerland
 - Hosted by ITU
- 89 attendees
- 27 Presentations
 - Objectives
 - Critters
 - 40G MAC Rate Objective
 - 40km Objective
 - Cu Objective
 - Strawmans – Objectives / PAR / Critters

May Interim: 40G MAC Rate Straw Polls

- Do you believe that the HSSG has proven broad market potential for a 40G objective? (All: 46 / 4 / 19)

- Which of the following would you support:
 - A: Forward PAR A as is (100G only) for July consideration
 - B: Forward modified PAR A with 40G added for July consideration
 - C: Forward dambrosia_01_0507 proposal (2 separate PARs) for July consideration
 - D: Forward PAR A as is (100G only) for July consideration and find a mechanism to study 40G

- Results
 - By Chicago Rules: A: 36 B: 28 C: 28 D: 36
 - Select 1: A: 2 B: 26 C: 6 D: 35
 - By Affiliation: A: 3 B: 13 C: 3 D: 22

May Interim Meeting Motions

- Failed Motions:
 - Adopt the objectives for 40 Gb/s operation shown below:
 - Support a speed of ~40 Gb/s at the MAC/PLS service interface while ensuring compatibility with OTN infrastructure
 - Define a family of physical layers for 40 Gb/s operation
 - Support at least 100m on OM3 MMF
 - Support at least 10m over a copper cable assembly
 - Support at least 1m over a backplane
 - All: 41 / 17 / 10, 802.3: 28 / 8 / 4
 - Move the HSSG request 802.3 working group approval of the PAR A objectives contained in agenda_01_0507 slide 21. All: 34 / 20 / 5, 802.3: 18 / 11 / 6
- Passed (Procedural) Motion:
 - The Higher Speed Study Group recommends the IEEE 802.3 WG form a 40G Study Group to evaluate definition of approximately 40Gb/s MAC data rate and related PHY capability to IEEE Std 802.3. All: 33 / 22 / 7, 802.3: 16 / 15 / 5



July Interim

- July 16, San Francisco, CA
- Adjacent to and co-located with this week's Plenary
- ≈90 Attendees
- Reviewed HSSG status and goals for week

Plans For the Week

- Hear 17 Presentations
 - Finalize Objectives
 - Finalize and approve PAR (or PARs)
 - Finalize and approve 5C
-
- Pending this week's meeting, a PAR or PARs may be brought forward for consideration by the WG on Thursday

Straw Poll (802.3 Voters only)

- I am planning on attending the IEEE 802.3 September Interim in Seoul Korea

- Results

- Yes - 46
- No - 21
- Don't know - 15
 - Likely to attend if it is a WG Interim Meeting - 3



Thank You!