



IEEE 802.3 Higher Speed Study Group Opening Plenary Report

Orlando, FL
March 12, 2006

John D'Ambrosia, Chair
jdambrosia@ieee.org

IEEE 802.3 HSSG Organization

- Study Group Chair:
 - John D'Ambrosia (jdambrosia@force10networks.com)
- Web Master
 - Frank Chang (ychang@vitesse.com)

- “Reach” Ad Hoc Chair
 - Andy Moorwood (amoorwood@extremenetworks.com)
- “Fiber Optic” Ad Hoc Chair
 - Dan Dove (dan.dove@hp.com)

Reflector and Web

- To subscribe to the HSSG reflector, send an email to:

[*ListServ@ieee.org*](mailto:ListServ@ieee.org)

with the following in the body of the message (do not include “<>”):

*subscribe stds-802-3-hssg <yourfirstname> <yourlastname>
end*

- Send HSSG reflector messages to:

[*STDS-802-3-HSSG@listserv.ieee.org*](mailto:STDS-802-3-HSSG@listserv.ieee.org)

- HSSG web page URL:

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

Interim Meeting

- January 17 – 19, 2007
- Monterey, CA
- ≈ 100 attendees
- 35 Presentations
 - Objectives
 - Critters
 - Broad market potential
 - Technical feasibility
 - Economic feasibility
 - Strawmans – PAR / Critters

Results from Interim

- Adopted 2 new objectives
 - Support a BER better than or equal to 10⁻¹² at the MAC/PLS service interface. (A: 68/0/4)
 - Support at least 40-km on SMF. (A:38/10/12, 802.3 12/6/16)
- Other Motions
 - The HSSG has demonstrated technical feasibility for a 10km single mode 100 Gb/s PMD. (A: 67/0/14, 802.3: 25/0/4)
 - The HSSG has demonstrated technical feasibility for a 100m multi-mode 100 Gb/s PMD. (A: 64/0/17, 802.3: 23/0/7)
- Determined one PAR from subset of objectives
 - Adopted Working Draft of PAR (All: 54/1/7, 25/1/4)
 - Adopted Working Draft for 5 Criteria Responses
 - Broad Market Potential (All: 39/4/9, 802.3: 15/3/7)
 - Distinct Identity (All: 53/1/5, 802.3: 26/1/3)
 - Compatibility (All: 54/1/6, 802.3: 25/1/5)
 - Technical Feasibility (All: 57/2/6, 802.3: 21/2/4)
 - Economic Feasibility (All: 48/4/8, 802.3: 21/3/7)

HSSG – All Objectives

- Support full-duplex operation only (approved 11/16/06: All 73/0/4)
- Preserve the 802.3 / Ethernet frame format at the MAC Client service interface (approved 11/16/06: All 76/0/4)
- Preserve minimum and maximum FrameSize of current 802.3 Std (approved 11/16/06: All 74/0/4)
- Support a speed of 100 Gb/s at the MAC/PLS interface (approved 11/16/06: All 67/9/14, 802.3 26/4/11)
- Support at least 10km on SMF. (approved 11/16/06: All 86/0/4, 802.3 40/0/4)
- Support at least 100 meters on OM3 MMF. (approved 11/16/06, All 61/3/27, 802.3 33/2/13)
- Support a BER better than or equal to 10^{-12} at the MAC /PLS service interface. (approved 1/19/07, All 68/0/4).
- Support at least 40-km on SMF. (approved 1/19/07, All 38/10/32, 802.3 12/6/16).

PAR “A”

- Objectives
 - 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.

- PAR – Working Draft
 - http://grouper.ieee.org/groups/802/3/hssg/HSSG_PARA_PAR_WD_0107.pdf

- Critters – Working Draft
 - http://grouper.ieee.org/groups/802/3/hssg/HSSG_PARA_5C_WD_0107.pdf

Plans For the Week

- Hear 30 Presentations
 - Objectives
 - Critters
 - Broad Market Potential
 - Technical Feasibility
 - Economic Feasibility
 - PAR A
- Finalize Objectives
- Determine # PAR
- Further refinement of PAR A
- Begin tutorial preparations



Thank You!