

Approved Minutes
IEEE 802.3 Higher Speed Study Group
September 11-13, 2007
Seoul, South Korea

Prepared by: Trey Malpass

Meeting convened at 9:10 AM, Tuesday, September 11, 2007.

Agenda & General Information

By – John D'Ambrosia

See – agenda_01_0907.pdf

- Introductions – Everyone introduced themselves
- Appointed Secretary – Trey Malpass appointed by Chair as Secretary for this meeting
- Motion to approve the agenda-
 - Moved by Matt Traverso, 2nd by Steve Trowbridge
 - Approved by voice vote without objection
- Motion to modify agenda to include minutes approval
 - Moved by Howard Frazier, 2nd by David Law.
 - Approved by voice vote without objection
- Motion to approve the July Plenary meeting minutes
 - Moved by Pete Anslow, 2nd by Frank Chang
 - Approved by voice vote without objection
- Chair reviewed the Study Group decorum and rules and asked if members of the press were present; none noted.
- Chair reviewed the HSSG organization
- Goals for meeting
 - Hear Technical Presentations
 - Identify potential “Big Ticket Items”
 - Tutorial Preparations
- Ground Rules – reviewed by Chair
- IEEE Structure, Bylaws & Rules – reviewed by Chair
- IEEE Patent policy
 - Chair showed the five slides to the body, reading slides 1 and 5 aloud
 - The Chair advised the HSSG that:
 - The IEEE’s patent policy is consistent with the ANSI patent policy and is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
 - Early identification of patent claims which may be essential for the use of standards under development is encouraged;
 - There may be Essential Patent Claims of which the IEEE is not aware. Additionally, neither the IEEE, the WG, nor the WG chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.

- The chair provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for the use of that standard. No one came forward.
- The group was reminded that Mr. Law provided a tutorial on the Patent Policy and the group was encouraged to review that information.
- Study Group function and IEEE Standards Process Flow
 - Function of the SG and the completed steps were reviewed
 - PAR and Task Force approval is expected in December; Task Force meetings will begin in January
 - Key Dates going forward were reviewed
- Reviewed Approved HSSG Project Documents and Objectives
- Possible Task Force timeline for standard development was reviewed
- Chris DiMinico submitted presentation, diminico_01_0907 late. Trey Malpass / Zhong Qiwen had made late request for presentation time, malpass_03_0907. Chair asked if there were any objections to hearing either of these presentations. There were none.
- Reviewed voting privileges and requirements to maintain those rights
- Chair reminded the HSSG to make sure they declared their affiliation
- Reviewed list of presentations

Presentation #1

Title – Questions to be Answered
 By – John D'Ambrosia – Force10
 See – dambrosia_01_0907.pdf

Presentation #2

Title – 100GE and 40GE PCS Proposal
 By – Mark Gustlin – Cisco
 See – gustlin_01_0907.pdf

Break at 10:45 AM
 Reconvened at 11:02 AM

Presentation #3

Title – 100GE and 40GE PCS Modeling
 By – Mark Gustlin – Cisco
 See – gustlin_02_0907.pdf

Presentation #4

Title – 100GE Layering Model Overview
 By – Trey Malpass – Huawei
 See – malpass_01_0907.pdf

Break for lunch at 12:00 noon
 Reconvened at 1:30 PM

Presentation #5

Title – Partial Fault Protection
By – Trey Malpass – Huawei
See – malpass_02_0907.pdf

Presentation #6

Title – 40 GbE and 100 GbE PCS Considerations
By – Steve Trowbridge – Alcatel-Lucent
See – trowbridge_02_0907.pdf

Break at 3:09 PM

Reconvened at 3:31 PM

Presentation #7

Title – Rate Preset as Appropriate Support for OTN
By – Shoukei Kobayashi – NTT
See – kobayashi_01_0907.pdf

Presentation #8

Title – 40GE OTN – Support Options
By – Osamu Ishida – NTT
See – ishida_01_0907.pdf

Presentation #9

Title – OTN Compatibility for 40 Gb Ethernet
By – Steve Trowbridge – Alcatel-Lucent
See – trowbridge_01_0907.pdf

Presentation #10

Title – 40 GE WAN Interface
By – Trey Malpass – Huawei
See – malpass_03_0907.pdf

Meeting breaks for the day at 4:54 PM

Meeting reconvenes at 9:05 AM, Wednesday, September 12, 2007.

The chair made some opening comments regarding review of the draft tutorial and the timeline for the day.

Presentation #11

Title – Considerations for 40G Backplane Ethernet PHY
By – Ilango Ganga – Intel
See – ganga_01_0907.pdf

Presentation #12

Title – Copper Interconnects
By – Chris DiMinico – MC Communications
See – diminico_01_0907.pdf
Break at 10:17 AM
Reconvened at 10:31 AM

Presentation #13

Title – Consider Transceiver Interfaces for 100G and 40G Ethernet
By – Frank Chang – Vitesse
See – chang_01_0907.pdf

Presentation #14

Title – Nx10G I/O Specification Proposal
By – Lew Aronson – Finisar
See – aronson_01_0907.pdf

Presentation #15

Title – Channel Studies on 4x25G Optical Module with CEI-25CFBI Electrical Interface
By – Wenbin Jiang – JDSU
See – zhong_01_0907.pdf

Break for lunch at 11:56 AM
Reconvened at 1:34 PM

Presentation #16

Title – Single Mode Fibre Skew Variation
By – Pete Anslow – Nortel
See – anslow_01_0907.pdf

Presentation #17

Title – Common LAN WDM Grid Proposal for all 100GE SMF Reaches
By – Chris Cole – Finisar
See – cole_01_0907.pdf

Presentation #18

Title – 200GHz Grid 4x25G WDM (100GE) for SMF Reach Objectives
By – Wenbin Jiang – JDSU
See – jiang_01_0907.pdf

Break at 3:22 PM
Reconvened at 3:46 PM

Presentation #19

Title – Optical Interface for 100G SMF PMD
By – Matt Traverso – Opnext
See – traverso_01_0907.pdf

Presentation #20

Title – DQPSK Serial PMD for 100GbE on 40-km SMF
By – Noriyuki Takeda – KDDI Labs
See – takeda_01_0907.pdf

Presentation #21

Title – Implementation of Differential Precoder for DQPSK
By – Hidehiro Toyoda – Hitachi
See – toyoda_01_0907.pdf

David Law requested to make a short presentation/discussion on Thursday. Chair asked the group if there were any objections; there were none.

Meeting breaks for the day at 4:45 PM

Meeting reconvenes at 9:13 AM, Thursday, September 13, 2007.

Chair reviewed the scope of work to be done as the group moves forward.

Presentation #22

Title – Mean Time to False Packet Acceptance (MTTPA)
By – David Law, 3Com
See – law_01_0907.pdf

Break at 10:00 AM

Reconvened at 10:21 AM

Presentation #23

Title – Tutorial – Preview and Discussion
By – John D'Ambrosia, Force10 Networks
See – tutorial_01_0907.pdf, tutorial_02_0907.pdf

An editing work session was held for the tutorial slides.

Break for lunch at 11:45 AM

Reconvened at 12:10 PM

Tutorial review and editing session continued.

The chair requested contributions from the group to address the issue of a <10km SMF reach objective.

Future Meetings:

- November 2007 Plenary
 - November 13-15
 - Hyatt Regency Atlanta
 - Atlanta, GA, USA

It is noted that the HSSG Tutorial is on Monday night November 12.

Motion to adjourn – moved by Larry Green; 2nd by Brad Booth. Approved by acclamation.
Meeting adjourns at 1:50 PM on Thursday, September 13, 2007.

HSSG Attendance Sheet – September 11-13, 2007

Last Name	First Name	Affiliation
Abbas	Ghani	Ericsson, UK
Anslow	Pete	Nortel
Belopolsky	Yakov	BEL
Bennett	Mike	LBNL
Booth	Brad	AMCC
Braun	Ralf-Peter	Deutsche Telekom, T-Systems
Carroll	Martin	Verizon
Chang	Frank	Vitesse
Chien	Ching-yun	ITRI Taiwan
Chow	Jacky	Marvell
Cole	Chris	Finisar
D'Ambrosia	John	Force 10 Networks
DiMinico	Chris	MC Communications
Dove	Dan	DoveNetworking - Procurve by HP
Flatman	Alan	LAN Technologies
Frazier	Howard	Broadcom
Ganga	Ilango	Intel
Geng	Dongyu	Huawei
Godbole	Anil	Inphi Corp
Green	Larry	Ixia
Grow	Bob	Intel
Gustlin	Mark	Cisco
Ishida	Osamu	NTT
Isono	Hideki	Fujitsu
Jewell	Jack	JDSU
Joo	Bheom-Soon	ETRI
Kang	Tae-kyu	ETRI
Kim	Jung-sik	ETRI
Kim	Daeuh	ETRI
King	Jonathan	Finisar
Kipp	Scott	Brocade
Kiyo	Hiramoto	Opnext Japan
Kobayashi	Shoukei	NTT
Law	David	3Com
Leung	Wai-shun	BEL
Li	Zeng	Huawei
Maki	Jeffery	Juniper Networks
Malpass	Trey	Malpass Technology - Huawei
Marris	Arthur	Cadence
McDonough	John	NEC America
Minghui	Wang	HBC Technologies
Muller	Shimon	Sun
Ngj	Alex	Helix AG
Nicholl	Gary	Cisco
Nowell	Mark	Cisco
Parsons	Glenn	Nortel

Pepper	Gerald	Ixia
Ryoo	Jeong-dong	ETRI
Sambasivan	Sam	AT&T
Schiellecenz	Dieter	Independent
Seely	Ted	Sprint
Seki	Murihiro	Sumitomo Electric
Snively	Robert	Brocade
Steerman	Henk	AMS-1X
Storaasli	Olaf	Draka Comteq
Swanson	Steve	Corning
Takamichi	Toru	NEC
Takeda	Noriyuki	KDDI R&D Laboratories Inc.
Tawa	Katsuhisa	Sumitomo Electric
Thiagarajian	Sashi	Ciena
Toyoda	Hidehiro	Hitachi
Traverso	Matt	Opnext
Trowbridge	Steve	Alcatel-Lucent
Tsumura	Eddie	Excelight
Veatch	Anthony	Siemon Company
Vetteth	Anoop	Cisco
Wong	Zhi	Altera Corp
Yoo	Tae-whan	ETRI
Zhangzhen	Jiang	Huawei