

Unapproved Minutes
IEEE 802.3 40GE SMF PMD SG
Jan 28-29th, 2010
New Orleans, LA, USA
Prepared by: Steve Trowbridge

The meeting was called to order at 1:06 pm, Thursday Jan 28th,2010 by David Law, IEEE 802.3 chair.

Steve Trowbridge volunteered as Recording Secretary. A recording secretary will be appointed on a per-meeting basis.

David Law indicated that he would like to appoint Mark Nowell as Study Group chair.

Motion to confirm Mark Nowell as Study Group Chair:

M: W. Diab; S: J. D'Ambrosia

For: 41; Against: 0; Abstain: 0

Motion Passes

Mark Nowell returned to the room to chair the remainder of the meeting. Documentation for the meeting can be found at:

<http://www.ieee802.org/3/40GSMF/public/jan10/index.html>

Agenda and General Information

By – Mark Nowell

See – agenda_01_0110.pdf

The guidelines for IEEE-SA meetings were displayed. It was asked whether anyone was present in the room who had not attended another IEEE 802.3 meeting this week - nobody responded, so the slide was not necessary to present verbally.

Motion to approve the agenda:

M: Steve Trowbridge; S: John D'Ambrosia, passes by voice without opposition.

There was considerable support and no opposition to striving for the "stretch goal" of achieving "Scenario 1" to reach agreement on the Objectives, 5C and PAR this week to allow for pre-submission to EC and NESCOM ahead of the March meetings.

Presentation #1

Title – 802.3 standards development: lessons learned

By – Brad Booth, Applied Micro

See – booth_01_0110.pdf

The presenter and the chair expressed confidence that the stretch goal of completing the objectives, 5C and PAR this week was feasible.

Presentation #2

Title – 40G Serial Module Technical requirement

By – Zeng Li, Huawei

See – li_01_0110.pdf

There was not support for the proposal for 10km reach as it would force a wavelength decision which was premature and should be a task force decision.

There was not support to add OTU3e2 as there is no optical specification to test compatibility with It was pointed out that the Ethernet standard will only specify Ethernet operation and not provide the implementation details for how one would support non-Ethernet protocols in a common module.

Break at 2:30pm

Reconvene at 2:51pm

Presentation #3

Title – 40GE SMF PMD: RX Feasibility

By – Alul Gupta, Inphi

See – gupta_01_0110.pdf

It was noted that at this stage of the project, this can be considered as an existence proof of technical feasibility rather than as a proposal for a solution to be adopted.

Presentation #4

Title – Carrier requirement for optical compatibility

By – Martin Carroll, Verizon

See – carroll_01_0110.pdf

No questions

Presentation #5

Title – Optical link budget interoperability

By – Pete Anslow, Nortel

See – anslow_02_0110.pdf

Some questions and discussion

Presentation #6

Title – 40 Gb/s Ethernet optimized for client applications in the carrier environment:
BROAD MARKET POTENTIAL

By – Andrew Ambrose, Alcatel-Lucent

See – ambrose_01_0110.pdf

Several speakers expressed support for the Broad Market Potential response as written. It was suggested to include in the presentation in addition to the sources of the market data projections the dates of the various reports. An update to the presentation was prepared to include these changes.

Presentation #7

Title – Technical feasibility

By --- Jon Anderson, Opnext

See – anderson_01_0110.pdf

John D'Ambrosia, P802.3ba chair, indicated that this was discussed as a potential solution in the P802.3ba task force, and no doubt was ever expressed about the technical feasibility of the serial solution.

Presentation #8

Title – 40 Gb/s Ethernet optimized for client applications in the carrier environment:
DISTINCT IDENTITY

By – Pete Anslow, Nortel

See – anslow_01_0110.pdf

The 802.3 chair indicated he agreed that this would receive more scrutiny than the technical feasibility which was not in doubt, however he thought a good job had been done in identifying that compatibility with deployed interfaces in carrier networks was the reason it was distinct.

Presentation #9

Title – Economic Feasibility

By – Sam Sambasivan, AT&T

See – sambasivan_01_0110.pdf

There was some discussion about the transition period where two module types would be required for spares for new and legacy transponders. There was discussion about the degree of specification needed to build a tri-rate module that would actually be specified as part of the 40GbE project.

Presentation #10

Title – 40 Gb/s Ethernet optimized for client applications in the carrier environment:
COMPATIBILITY

By – Stephen Trowbridge, Alcatel-Lucent

See – trowbridge_01_0110.pdf

The 802.3 chair questioned whether the final bullet of the response could be shortened (add a full stop after "SNMP"). It was noted that the sentence was identical to the corresponding sentence in the P802.3bf response just approved.

Presentation #11

Title – Proposed Objectives

By – John D'Ambrosia, Force 10

See – dambrosia_01_0110.pdf

There was considerable discussion on the objective of a reach of at least 2km. All agreed that more would be better. 2km is the minimum needed for optical compatibility with existing interfaces. More may be possible at no additional cost depending on the wavelength choice, but that is a matter for task force decision and not the Study Group.

Straw Poll #1:

I would support a project to specify a 40 Gb/s Ethernet SMF PMD with objectives as proposed in dambrosia_01_0110.pdf

All in the room:

Y: 39

N: 0

A: 0

802.3 voters:

Y: 29

N: 0

A: 1

Presentation #12

Title – Proposed PAR Responses

By – John D'Ambrosia, Force 10

See – dambrosia_02_0110.pdf

Need to add why the PAR is being submitted before the approval of P802.3ba

There was discussion about acronym expansion, for example: "Synchronous Transport Module" is less meaningful than STM. Text will be added to the notes section to explain these terms since they should be considered terms rather than abbreviations. POS is an abbreviation that can be spelled out.

Straw Poll #2

I believe that Broad Market Potential has been demonstrated for 40 Gb/s Ethernet optimized for client applications in the carrier environment.

All in the room:

Y: 33

N: 0

A: 2

802.3 voters:

Y: 27

N: 0

A: 0

Straw Poll #3

I believe that Economic Feasibility has been demonstrated for 40 Gb/s Ethernet optimized for client applications in the carrier environment.

All in the room:

Y: 35

N: 0

A: 1

802.3 voters:

Y: 26

N: 0

A: 0

Break for the day at 6:30pm.

Reconvene on Friday, March 29 at 9:10am

Discussion returned to objectives presented in dambrosia_01_0110.pdf for consideration of any proposed edits. The agreed revision with minor edits is posted as dambrosia_01a_0110.pdf.

Motion #1

Move that the Study Group adopt the objectives in slide 3 of dambrosia_01a_0110.pdf

M: John D'Ambrosia

S: Pete Anslow

Technical $\geq 75\%$

All in the room: 802.3 voters

Y: 30

Y: 21

N: 0

N: 0

A: 0

A: 0

Motion passes

Break at 10:39am

The meeting was reconvened at 10:54am

The meeting resumed with discussion of the 5-criteria.

Presentation #13

Title – 40Gb/s Ethernet Single-mode Fibre PMD Study Group: Proposed 5-Criteria responses

By – Stephen Trowbridge, Alcatel-Lucent

See – trowbridge_02_0110.pdf

This deck was the collected set of 5-criteria responses from ambrose_01_0110.pdf, trowbridge_01_0110.pdf, anslow_01_0110.pdf, anderson_01_0110.pdf, and sambasivan_01_0110.pdf. Each slide of this deck was used for editing to produce the final responses before a motion on each of the 5-criteria. The full deck as a result of editing was posted as trowbridge_02a_0110.pdf.

Motion #2

Move that the Study Group adopt the Broad Market Potential response in slide 2 of trowbridge_02a_0110.pdf.

M: Andy Ambrose

S: John D'Ambrosia

Technical $\geq 75\%$

All in the room: 802.3 voters

Y: 32

Y: 22

N: 0

N: 0

A: 0

A: 0

Motion passes

Motion #3

Move that the Study Group adopt the Compatibility response in slide 3 of trowbridge_02a_0110.pdf.

M: Steve Trowbridge

S: John McDonough

Technical $\geq 75\%$

All in the room: 802.3 voters

Y: 34

Y: 23

N: 0

N: 0

A: 0

A: 0

Motion passes

Motion #4

Move that the Study Group adopt the Distinct Identity response in slide 4 of trowbridge_02a_0110.pdf

M: Pete Anslow S: Jon Anderson

Technical $\geq 75\%$

All in the room: 802.3 voters

Y: 34 Y: 23

N: 0 N: 0

A: 0 A: 0

Motion passes

Motion #5

Move that the Study Group adopt the Technical Feasibility response in slide 5 of trowbridge_02a_0110.pdf

M: Jon Anderson S: Steve Trowbridge

Technical $\geq 75\%$

All in the room: 802.3 voters

Y: 35 Y: 23

N: 0 N: 0

A: 0 A: 0

Motion passes

Motion #6

Move that the Study Group adopt the Economic Feasibility response in slide 6 of trowbridge_02a_0110.pdf.

M: Sam Sambasivan S: John D'Ambrosia

Technical $\geq 75\%$

All in the room: 802.3 voters

Y: 33 Y: 23

N: 0 N: 0

A: 0 A: 0

Motion passes

The edited responses from dambrosia_02_0110.pdf presented on Thursday were entered into the online PAR form and additional editing occurred based on comments from the room. When all were satisfied with the responses, the PAR form was printed to nowell_01_0110.pdf for adoption in the following:

Motion #7

Move that the Study Group adopt the PAR question responses in nowell_01_0110.pdf and grant editorial license to the Study Group chair.

M: John D'Ambrosia S: Steve Trowbridge

Technical $\geq 75\%$

All in the room: 802.3 voters

Y: 30 Y: 21

N: 0 N: 0

A: 0 A: 0

Motion passes

Motion #8

Move that the Study Group:

- Submit the project documentation to the 802.3 Working Group for approval.
- Request that the 802.3 Working Group chair pre-submit the PAR and 5 criteria responses to the 802 Executive Committee for consideration at the March 2010 Plenary Session. Should the IEEE 802.3 Working Group not approve the submission at its March 2010 meeting, it will be removed from the IEEE 802 Executive Committee agenda.
- Request that the 802.3 Working Group Chair pre-submit the PAR to NesCom for consideration at the March 2010 meeting. Should the IEEE 802.3 Working Group not approve the submission at its March 2010 meeting, it will be removed from the NesCom agenda.

M: Sam Sambasivan S: Osamu Ishida

Technical ≥ 75%

All in the room: 802.3 voters

Y: 30 Y: 20

N: 0 N: 0

A: 0 A: 0

Motion passes

Presentation #14

Title – Proposed Informal Communication from the Study Group to ITU-T Study Group 15

By – John D'Ambrosia, Force 10 Networks

See – dambrosia_03_0110.pdf

There was some discussion and editing of the proposed informal communication before posting of the document and the following motion.

Motion #9

Move that the Study Group approve the text in dambrosia_03_0110.pdf, with editorial license granted to the Study Group Chair (or his appointed agent) as an informal communication by the Chair to ITU-T Study Group 15

M: John D'Ambrosia S: Robert Lingle, Jr.

Procedural > 50%

Motion passes by voice without opposition

Future Meetings:

Future Meeting information at: <http://ieee802.org/3/interims/index.html>

- March 2010 IEEE 802 Plenary
 - March 14 - 19
 - Caribe Royale Orlando All Suites Resort and Convention Center
 - Orlando, FL, USA
- Tentative - April 2010 IEEE 802.3ba Interim
 - April 19 or April 20
 - Location – San Jose, Ca, USA
- May 2010 IEEE 802.3 Interim
 - May 24 - 28
 - Geneva, Switzerland
- July 2010 IEEE 802 Plenary
 - July 11 - 16
 - Grand Hyatt Manchester
 - San Diego, CA, USA

There was discussion on the likely time allocation for the Orlando meeting. Other Working Groups are permitted to submit questions about the PAR and 5C responses by 5pm Tuesday which must be responded to by 5pm Wednesday. A Tuesday evening slot may be needed to allow for preparing any needed responses. Should there be no questions, this time could be used as a tutorial for other 802.3 working group participants to learn about this proposed project. Motions in the 802.3 working group to adopt the PAR, 5-criteria responses and objectives will occur in the closing plenary on Thursday afternoon.

Motion to adjourn: John D'Ambrosia; second: Jon Anderson, passes by voice without opposition. The meeting was adjourned at 12:38pm.

Attendee List for IEEE 802.3 40GE SMF Study Group according to the Study Group attendance sheets/books:

To be updated....

IEEE 40GE SMF Study Group Attendance Sheet - Interim Meeting, Jan 28-29th New Orleans				1/28	1/29
Last Name	First Name	Employer	Affiliation	Thurs	Fri
Abbas	Ghani	Ericsson, UK	Ericsson, UK	x	
Ambrose	Andy	Alcatel-Lucent	Alcatel-Lucent	x	x
Anderson	Jon	Opnext	Opnext	x	x
Anslow	Pete	Nortel	Nortel	x	x
Bennett	Mike	LBNL	LBNL	x	
Booth	Brad	Applied Micro	Applied Micro	x	
Carroll	Martin	Verizon	Verizon	x	x
Chang	Frank	Vitesse	Vitesse	x	x
Cole	Chris	Finisar	Finisar	x	
D'Ambrosia	John	Force 10 Networks	Force 10 Networks	x	x
D'Andrea	David	Lightwire	Lightwire	x	x
Dawe	Piers	Iptronics	Iptronics	x	
Diab	Wael	Broadcom	Broadcom	x	
Dudek	Mike	Qlogic	Qlogic	x	x
Hamano	Hiroshi	Fujitsu Labs Ltd	Fujitsu Labs Ltd	x	x
Gupta	Atul	Inphi	Inphi	x	x
Gustlin	Mark	Cisco	Cisco	x	x

Hamano	Hiroshi	Fujitsu Labs Ltd	Fujitsu Labs Ltd	X	X
Hayduczenia	Marek	ZTE Corporation	ZTE Corporation	X	X
Hidehiro	Toyoda	Hitachi	Hitachi	X	X
Horner	Rita	Avago Technologies	Avago Technologies	X	X
Ishida	Osamu	NTT	NTT	X	X
Jiang	Qiaofeng	Nokia Siemens Network	Nokia Siemens Network	X	X
King	Jonathan	Finisar Corp.	Finisar Corp.	X	
Kodama	Satoshi	NTT	NTT	X	X
Kuo	Chien-Yu	Transillion Tech	Transillion Tech	X	X
Latchman	Ryan	Gennum	Gennum	X	
Law	David	3Com	3Com	X	
Lee	Kyo Sang	Kaist	Kaist		X
Lee	DuoJung	Kaist	Kaist		X
Lewis	David	JDSU	JDSU	X	X
Lingle	Robert	OFS	OFS	X	X
Lutz	Sharon	US Conec LTD.	US Conec LTD.	X	
Maki	Jeffery	Juniper Networks	Juniper Networks	X	X
McDonough	John	NEC America	NEC America	X	X
Nowell	Mark	Cisco	Cisco	X	X
Ojha	Raj	Gigfire Micro	Gigfire Micro	X	X
Palkert	Tom	Xilinx, Luxtera	Xilinx, Luxtera	X	X
Petrilla	John	Avago Technologies	Avago Technologies	X	
Sambasivan	Sam	AT&T	AT&T	X	X
Shang	Song	Semtech	Semtech	X	X
Stoddard	Andrew	Cogo Optronics	Cogo Optronics	X	X
Swanson	Steve	Corning	Corning	X	
Swenson	Norm	Clariphy Communications	Clariphy Communications	X	X
Thiagarajan	Sashi	Ciena	Ciena	X	
Tian	Feng	Sumitomo Electric	Sumitomo Electric	X	X
Tracy	Nathan	Tyco Electronics	Tyco Electronics	X	

Trowbridge	Steve	Alcatel-Lucent	Alcatel-Lucent	x	
Vaden	Sterling	OCC Fiber	OCC Fiber	x	
Vanderlaan	Paul	Nexans	Nexans	x	x
Warland	Tim	Applied Micro	Applied Micro	x	x
Zeng	Li	Huawei	Huawei	x	x