802.3ah Ethernet in the First Mile

May, 2002 Interim Meeting
Edinburgh, UK

Scott Simon, Recording Secretary

Day One TF Meeting AM

Straw poll "beauty contest" taken to determine general support for 4 copper baseline proposals:

When each attendee may vote for just one proposal:
Langston: 1
Beck: 37
Wei: 12
Barrass: 49

When each attendee may vote for more than one proposal:
Langston: 5
Beck: 53
Wei: 27
Barrass: 59

When each 802.3 approved voter may vote for just one proposal:
(disregarding Livingston and Wei due to lack of support)
Beck: 17
Barrass: 28

1. Motion to adopt the Beck proposal as reflected in Beck_01_0502.pdf

Moved: Hugh Barrass
Second: John Egan

> **Motion to refer this matter to the Cu subtaskforce committee**
> Moved: Michael Beck
> Second: Fletcher Kittredge
> Y: 34 **N: 42   Technical, requires >= 75%**
> **MOTION FAILS**

Votes by all attendees:
Y: 45 **N: 46** A:18   **Technical, requires >= 75%**

Votes by 802.3 approved voters:
Y: 21 **N: 25** A: 9   **Technical, requires >= 75%**

MOTION FAILS

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2. Motion to adopt the Barrass proposal as reflected in barrass_02_0502.pdf

Moved: Tom Dineen
Second: David Law

> **Motion to amend the motion in question to add advice to Cu track to put weighting on those solutions that achieve longer reach and reduced rate**
> Moved: Nelson Zagalski
> Second: Daun Langston
>
> **MOTION WITHDRAWN**
>
> **Motion to postpone discussion until after the presentation of omahony_1_0502.pdf regarding PHY evaluation criteria.**
> Moved: John Egan
> Second: Ed Eckert
>
> > **HOWARD SUSPENDS THE RULES**
> > to take a straw poll about who wants to see the omahony_1_0502.pdf presentation now
> > TF is not in consensus
> > **HOWARD REINSTATES THE RULES**
>
> Votes by all attendees:
> Y: 28 **N: 48**
> **MOTION FAILS**

Votes by all attendees:
Y:66 **N: 39** A: 5   **Technical, requires >= 75%**

Votes by 802.3 approved voters:
Y: 33 **N: 16** A: 4   **Technical, requires >= 75%**

MOTION FAILS

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3. Motion to adopt the wei proposal as reflected in wei_01_0502.pdf

Moved: Matt Squire
Second: Walter Soto

> **Motion to Call the Question**
> Mover: John Thatcher
> Approved by Unanimous Acclamation

MOTION PASSES

Votes by all attendees:
Y:18 **N: 51** A: 21   **Technical, requires >= 75%**

Votes by 802.3 approved voters:
Y: 11 **N: 26** A: 4   **Technical, requires >= 75%**

MOTION FAILS

Straw poll to determine how many people voted against or abstained on barrass_02_0205.pdf because of the lack of a review of line code selection criteria:

Obvious result is that not enough attendees voted N or A for the above reason to make a difference.

Day Two TF Meeting AM

4. Motion to accept squire_2_0502.pdf (as clarified with new media type applicability slide) as the baseline for OAM

Moved: Matt Squire
Second: Rich Taborek

> **Motion to amend to add bullets to the above motion: 1) mandatory OAM in frames, 2) optional OAM in PHY**
> Moved: Jonathan Thatcher
> Second: Tom Dineen
>
> Votes by all attendees:
> Y: 46 N: 50 A: 8 **Technical, requires >= 75%**
> **MOTION FAILS**

Votes by all attendees:
Y: 67 **N: 23** A: 11 **Technical, requires >= 75%**

VOTE RETAKEN BECAUSE OF "CLOSE" TALLEY, AND BECAUSE CHAIR WAS UNSURE THAT COUNT HAD BEEN TAKEN ACCURATELY DUE TO MOVEMENT IN THE ROOM.

Votes by all attendees:
Y: 71 **N: 30** A: 10 **Technical, requires >= 75%**

OBVIOUSLY, A LARGE NUMBER OF PEOPLE WALKED INTO THE ROOM FROM THE HALLWAY AT THIS POINT.

MOTION FAILS

Votes by 802.3 approved voters:
Y: 30 N: 22 A: 5   **Technical, requires >= 75%**

MOTION FAILS

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5. Motion to adopt the mandatory portion of squire_2_0502.pdf (as clarified with new media type applicability slide) as the baseline for OAM

Moved: Brad Booth
Second: Rich Brand

Votes by all attendees:
Y: 85 N: 20 A: 6   **Technical, requires >= 75%**

MOTION PASSES

Votes by 802.3 approved voters:
Y: 46 N: 10 A: 2   **Technical, requires >= 75%**

MOTION PASSES

NOTE THAT THE "MANDATORY PORTION OF SQUIRE_2_0502.PDF" INCLUDES OAM IN FRAMES. OAM IN PREAMBLE IS NOT INCLUDED IN THE BASELINE.

Day Three TF Meeting PM

6. Motion to adopt the minutes from the March Interim meeting in St. Louis

Moved: Tony Jeffree
Second: Hugh Barrass

MOTION PASSES BY ACLIMATION

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7. Motion to adopt the draft outline, based on daines_1_0502.pdf as the basis for the first draft of P802.3ah

Moved: Kevin Daines
Second: David Law

MOTION PASSES BY ACLIMATION

Straw poll taken to see who would plan on attending an EFM interim meeting from Sept 30 – Oct 4, 2002 in the southeastern US:

<u>Planned attendance</u>: 86

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8. Motion to Define minimal hooks to provide adequate privacy for EFM P2MP which will include an encryption mechanism

M: Ariel Maislos on behalf of the P2MP STF

> **Motion to amend the motion to read: "Define minimal hooks to an encryption and authentication engine to provide adequate privacy for EFM P2MP"**
> Moved: Brad Booth
> Second: David Law
>
> **MOTION WITHDRAWN**
>
> **Motion to table the motion in question**
> Moved: Brad Booth
> Second Barry O'Mahony
> <u>Votes by all attendees</u>:
> **Y: 68** N: 10

MOTION TABLED

Straw poll to gauge interest in adding encryption in EPON:

Those who would like to support encryption in EPON: 71
Those who would be opposed to support encryption in EPON: (1) Tom Dineen

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9. Motion to adopt LASER control signal direct from MAC-control to PHY taking the MAC "transmitting" variable as described in sala_3_0502 pages 15-17 for the baseline text.

Moved: Ariel Maislos on behalf of the P2MP STF

MOTION PASSED BY ACCLIMATION

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10. Motion to adopt the model presented in finn_3_0502.pdf, Section 2.5 (Advanced Upper-Layer Shared LAN Emulation), and Section 2.6 (Special Control Functions), is to be adopted for the baseline text for 802.3ah P2MP

Moved: Ariel Maislos on behalf of the P2MP STF

> **Motion to table the motion in question**
> Moved: Brad Booth
> Second: Tom Dineen

MOTION TABLED

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11. Motion to incorporate sala_3_0502, pages 8-12 into the baseline text, replacing pages 8-9 in sala_1_0502 (previously adopted), harmonizing the nomenclature between existing baselines

Moved: Ariel Maislos on behalf of the P2MP STF

MOTION PASSES BY ACCLIMATION

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12. Motion to adopt the letter from the P2MP STF to be sent to 802.1

Moved: Ariel Maislos on behalf of the P2MP STF

MOTION PASSES BY ACCLIMATION

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13. Motion to Adopt the proposal described in jonsson_1_0502.pdf as the basis for the first draft of P802.3ah to meet the objective: 100BASE-X >= 10km over SM fiber

Moved: Vipul Bhatt on behalf of the Optics STF

MOTION PASSES BY ACCLIMATION

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14. Motion to adopt the proposal described in tatum_1_0502.pdf as the basis for the first draft of P802.3ah to meet the objective: 1000BASE-X >= 10km over single SMF

Moved: Vipul Bhatt on behalf of the Optics STF

Votes by all attendees:
Y: 80 N: 1 A: 9 **Technical, requires >= 75%**

MOTION PASSES

Votes by 802.3 approved voters:
Y: 45 N: 1 A: 8 **Technical, requires >= 75%**

MOTION PASSES

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15. Motion to adopt the proposal described in tatum_3_0502.pdf as the basis for the first draft of P802.3ah as a single fiber solution for the objective: 100BASE-X >= 10km over SMF 100M

Moved: Vipul Bhatt on behalf of the Optics STF

Votes by all attendees:
Y: 78 N: 1 A: 15 **Technical, requires >= 75%**

MOTION PASSES

Votes by 802.3 approved voters:
Y: 46 N: 1 A: 11 **Technical, requires >= 75%**

MOTION PASSES

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16. Motion to identify Mr. Koichiro Seto as an informal liaison from 802.3ah to the TTC

Moved: Vipul Bhatt

Votes by all attendees:
Y: 82 N: 0 A: 4 **Technical, requires >= 75%**

MOTION PASSES

Votes by 802.3 approved voters:
Y: 46 N: 0 A: 3 **Technical, requires >= 75%**

MOTION PASSES

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17. Motion to add an FEC option for the 1gig P2P and P2MP PHY for the following reason:

1) *Improves reach of a MPN limited link by 50% for links with MPN penalty of about 2dB*

2) *Permits operation at an SNR lower by 2.5dB for non-dispersion limited links*

Moved: Vipul Bhatt on behalf of the Optics STF

Motion to amend the motion in question to state: "Motion to add an FEC option for the 1Gig P2P and P2MP PHY, <u>maintaining backward compatibility with the 1000BASE-X PCS,</u> for the following reason. . ."
Moved: David Law
Second: Brad Booth

MOTION TO AMEND PASSES BY ACLIMATION

Motion to divide the motion in question to consider P2P and P2MP PHYs separately
Moved: Koichiro Seto

Second: Hans Mickelson
Voice vote: simple majority opposed

MOTION TO DIVIDE THE QUESTION FAILS

Motion to call the question
Moved: Scott Simon

NO OBJECTION TO CALLING THE QUESTION

Votes by all attendees:
Y: 66 N: 3 A:18 **Technical, requires >= 75%**

MOTION PASSES AS AMENDED

Votes by 802.3 approved voters:
Y: 38 N: 4 A: 10 **Technical, requires >= 75%**

MOTION PASSES AS AMENDED

Straw poll to gauge the 802.3ah TF opinion on the requirement for the 10^{-12} BER on optical EFM PHYs

Those in favor of reducing the BER requirement for 100M fiber to 10^{-10}: **21**
Those opposed to reducing the BER requirement for 100M fiber to 10^{-10}: **29**

AS THIS ISSUE HAS BEEN RAISED SEVERAL TIMES OVER THE COURSE OF MULTIPLE MEETINGS, WITH PRECISELY THE SAME OUTCOME, THE CHAIRMAN CONSIDERS THE ISSUE CLOSED.

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18. Motion to approve and transmit the communication letter to the ITU-T SG15/Q4 regarding EFM Copper
Moved: Scott Simon
Second: Tony Jeffree

Votes by all attendees:
Y: 51 N: 9 A: 23 **Technical, requires >= 75%**

MOTION PASSES

Straw poll to gauge 802.3ah TF opinion on allowing multiple linecodes (PMDs) for the Cu standard

Those to who would vote for the barrass proposal, all the way to WG ballot, if it included both linecodes: 27
Those who would vote against the barrass proposal if it included both linecodes:17

Straw poll

Those who would support a baseline that included both VDSL variants and methods to extend reach: 50
Those who would not support such a baseline: 4

Straw polls among 802.3 WG voting members:

Those who would support a proposal that contained two PMDs for the same medium: 18
Those who would oppose such a proposal: 11
Those who would support the use of each VDSL line codes if they would be used on different "media" (defined by some arbitrary distinction): 20
Those who would not support such a proposal: 8

Those who would support one VDSL line code plus a method to extend reach: 22
Those who would not support such a proposal: 6

Straw poll all attendees::
Those who would support one VDSL line code plus a method to extend reach: 44
Those who would not support such a proposal: 9

> *Official entry to the minutes: Jonathan Thatcher requests the chair of 802.3ah to determine if any organization is exerting "undue influence" on 802.3ah EFM Copper decisions. The chair refuses to do so, as the allotted time for the meeting is about to expire. It is now 6:59 pm GMT according to the wall clock.*

Hiroshi Suzuki makes a very brief announcement concerning his plans for future presentations on the subject of OAM in Preamble.

Meeting adjourned at 7:00 pm GMT