

**Minutes – 10G EPON Study Group Interim Meeting,
San Diego
July 18-19, 2006**

Recorded by Jeff Mandin (Jeff_Mandin@pmc-sierra.com)

Tuesday, 18 July 2006

For attendee list please refer to

http://www.ieee802.org/3/10GEPON_study/public/july06/10gepon_attendance_0706.pdf

08:30 Glen Kramer called the meeting to order

Glen asked for a volunteer to be recording secretary. Jeff Mandin volunteered.

Introductions by attendees

Glen described the attendance books

Glen requests vote for approval of minutes of previous meeting (not moved and seconded)

Passed by voice vote without opposition

IEEE patent policy was read by Glen

Motion to approve revised agenda

(http://www.ieee802.org/3/10GEPON_study/public/july06/10gepon_agenda_0706.pdf)

Moved: Lowell Lamb

Second: Duane Remein

Passed by voice vote without opposition

Presentations are given according to the agenda:

Ryan Hirth / *1Gbps to 10 Gbps Migration*

Toshiaki Mukojima / *Backward Compatibility and Co-Existence*

Roger Merel / *Backward Compatibility*

Coffee break

Keiji Tanaka / *System Configuration*

Akihiro Otaka / *Motion Text*

Motion to add the following text to the objectives:

"Investigate physical layer specification(s) which can co-exist with 1G-EPON and 1550 1560nm video overlay system in a fiber"

Moved: Akihiro Otaka

Seconded: Toshiaki Mukojima

Motion to postpone the motion until the end of presentations on Wednesday

Moved: Denis Beaudoin

Seconded: Roger Merel

For: 54 Against: 0 Abstain: 5

Motion to postpone passed

Pat Thaler / *64b/66b encoding*

Lunch

13:30 Frank Chang / *10G EPON Optical Budget Considerations*

14:15 Frank Effenberger / *10Gb/s PMD Considerations*

14:40 *Coffee break*

15:00 Roger Merel / *PMD Proposal Considerations*

15:10 Akihiro Otaka / *Background of the 29dB Requirement*

15:20 Motoyuki Takizawa / *Optical Budget for 10G-EPON*

15:30 Akira Takahashi / *Experimental Consideration on EPON Transmission*

15:40 Mitsunobu Kimura / *Feasibility at 29dB Loss Budget*

15:55 Hiroshi Murata / *A PMD Class Supporting 29 dB Link Budget*

16:10 **Motion to recess till Wednesday 0900**

Moved: Jeff Mandin

Second: Lowell Lamb

Passed by voice vote without opposition

Wednesday, 19 July 2006

(From 9:00 to 9:40 the minutes were taken by Duane Remein, duane.remein@alcatel.com. Jeff Mandin resumed recording duties at 9:40.)

- 09:00 Glen Kramer called meeting to order.
- 09:08 Hirotaka Wada / *29dB Budget Technical Feasibility for 10Gb/s EPON*
- 09:19 Haim Ben-Amram / *Serial 10G Downstream using FEC*
- 09:36 Dong-Soo Lee / *Technical Feasibility of 10Gb/s EPON*
- 09:50 Toshiaki Mukojima / *Considerations for 10Gb/s EPON PHY*
- 10:05 Bin Yeong Yoon / *Advent of 10G Asymmetric EPON*
- 10:30 Jeff Mandin / *FEC Framing*
- 10:50 *Coffee Break*

Motion that was postponed from yesterday:

Add the following text to the objectives:

"Investigate physical layer specification(s) which can co-exist with 1G-EPON and 1550-1560nm video overlay system in a fiber"

Revised by mover to:

"Following PAR approval, 802.3av task force should investigate the development of physical layer specification(s) which accommodate the simultaneous operation of existing 1G-EPON, a 1550-1560nm video overlay, and 10G-EPON. If the Task Force decides that this is feasible, add this to the objectives at that time."

Accepted by the seconder as a friendly amendment.

Motion to amend

Remove the last sentence so that motion text reads:

"Following PAR approval, 802.3av task force should investigate the development of physical layer specification(s) which accommodate the simultaneous operation of existing 1G-EPON, a 1550-1560nm video overlay, and 10G-EPON."

Mover: Thomas Dineen

Accepted as friendly amendment by mover and seconder.

Motion to amend

"Following PAR approval, 802.3av task force should investigate the development of physical layer specification(s) which accommodate the simultaneous operation of existing 1G-EPON, and/or 1550-1560nm video overlay, with 10G-EPON."

Mover: Mike Dudek

Accepted as friendly amendment by mover and seconder.

SG chair interrupted discussion for announcement by Bob Grow: At the closing plenary, the 802.3 WG will vote on PAR and each criterion individually and there will be one vote on the objectives text.

Continued discussion on the motion...

Motion to amend

"Following PAR approval, 802.3av task force should investigate the development of physical layer specification(s) which accommodate the simultaneous operation of existing 1G-EPON and a 1550-1560nm video overlay, with 10G-EPON."

Mover: Frank Effenberger

Seconded: Roger Merel

Not accepted by mover as friendly.

Required: 75%

Question called by Duane Remein, second by Jeff Mandin

No objections to calling a question

Vote on amendment: For: 17, Against: 27, Abstain: 18

Motion to amend failed.

Motion to call question

Mover: Jeff Mandin

Second: Frank Effenberger

David Cunningham objects

Required: 50%

For: 24, Against: 9

Question is called.

Vote on proposed motion.

Required: 75%

For: 45 Against: 4 Abstain: 12

Motion Passed

Motion to recess for lunch

Mover: Duane Remein

Second: Lowell Lamb

Passed by voice vote without opposition

Motion:

(1) Delete the following text from Objectives:

"Investigate split ratios of 64 and 128"

(2) *Following PAR approval, the 802.3av Task Force shall investigate the development of physical layer specification(s) which accommodate split ratios of 64 and 128.*

Mover: Lowell Lamb

Amended by mover at suggestion of chair Glen Kramer:

(1) Delete the following text from Objectives:

"Investigate split ratios of 64 and 128"

(2) *Following PAR approval, the 802.3av Task Force should form an ad hoc group to investigate the development of physical layer specification(s) which accommodate split ratios of 64 and 128.*

Required: 75%

For: 39 Against: 0 Abstain: 11

Motion Passed

Motion

On behalf on 10Gb/s PHY for EPON Study Group, the SG chair shall request IEEE 802.3 WG to approve PAR, 5 criteria and Objectives during IEEE 802.3 WG closing plenary session on Thursday, July 20, 2006.

Mover: Howard Frazier

Second: Frank Chang

Motion to Table:

Mover: Roger Merel

Second: Lowell Lamb

Motion to table passed by voice vote w/o opposition

Motion

Change last objective:

"Define up to 3 optical power budgets that support split ratios of 1:16 and 1:32, and distances of at least 10 km and at least 20 km"

Moved: Howard Frazier

Seconded: Roger Merel

Motion to call the question:

Mover: Jan Peeters Weem

No objections

Question was called

For: 51 Against: 0 Abstain: 10

Motion Passed

Motion to take tabled motion off the table

Moved: Duane Remein

Seconded: Thomas Dineen

No objections

Tabled Motion by Howard Frazier (Second: Frank Chang):

On behalf on 10Gb/s PHY for EPON Study Group, the SG chair shall request IEEE 802.3 WG to approve PAR, 5 criteria and Objectives during IEEE 802.3 WG closing plenary session on Thursday, July 20, 2006.

For: 56 Against: 0 Abstain: 3

Motion Passed

Motion to adjourn

Moved: Howard Frazier

Second: Roger Merel

Motion passed by voice vote without opposition