10GBASE-LRM
CLOSING REPORT TO IEEE 802.3

17th November 2005

Outline

- **IEEE802.3aq Officers**

- **Reflector and Web details**

- **Achievements this week**

- **Working Group and Confirmation Ballot Results**

- **TF Motions in 10GBASE-LRM meetings**

- **Motions to IEEE802.3**

IEEE 802.3aq Officers

- **Task Force Chair: David Cunningham**
- **Editor: Nick Weiner**
- **Web Master: Piers Dawe**

- **TP2 weekly call leader: Tom Lindsay**
- **TP3 weekly call leader: Jim McVey**

- **Channel Ad hoc Chair: Ian White**
  - **Task 1 (OM1, OM2, OM3 & connectors) leader: Richard Penty**
  - **Task 2 (Time variation of channel & MN): Jonathan King**
  - **Task 3 (Input-output parameters) leader: Lars Thon**
  - **Task 4 (Launch & Mode Filtering) leader: Yu Sun**
  - **Task 5 (Validation) leader: Nick Weiner**

REFLECTOR AND WEB

There is a reflector set up

To subscribe, use this URL:

- **http://ieee802.org/3/aq/reflector.html**

To subscribe via e-mail send this message

- **stds-802-3-10gmmf <yourfirstname> <yourlastname> to ListServ@ieee.org**

The IEEE 802 web page URL:
http://ieee802.org/3

10GBASE-LRM web page URL:

- **http://ieee802.org/3/aq**

ACHIEVEMENTS FOR THIS MEETING

- **Completed comment resolution on Draft P802.3aq/D2.4.**

- **No changes were made to D2.4.**

- **TF passed motions to:**

  ➢ Tidy up project objectives

  ➢ Accept interoperation report

  ➢ Approve recirculation of unsatisfied comments on D2.4

  ➢ Direct TF chair to request conditional approval for Sponsor Balloting of D2.4/D3.0

Working Group Confirmation Ballot Results

	D2.0	D2.1	D2.2	D2.3	D2.4
Voters	206	206	206	206	206
Approve	72	86	95	99	103
Disapprove	22	22	19	18	17
Abstain	9	4	6	6	6
Returns	103	112	120	123	126
Comments T	85	25	10	14	2
Comments TR	107	44	51	16	14
Comments E	209	64	37	22	10
Comments ER	57	5	8	2	1
Comments	458	138	106	54	27
RespRate	**50.00%**	**54.37%**	**58.25%**	**59.71%**	**61.17%**
AppRate	**76.60%**	**79.63%**	**83.33%**	**84.62%**	**85.83%**
AbsRate	**8.74%**	**3.57%**	**5.00%**	**4.88%**	**4.76%**
New Disapprove	22	2	0	0	2

Ballot closed on the 1 November 2005

Unsatisfied TR Comments on D2.4

Comments requiring recirculation:

- Comment 1, R Mei   Power budget
- Comment 2, L Adriaenssens   Interoperation
- Comment 5, P Kolesar   Broad Market Potential
- Comment 6, P Kolesar   Fails 300 m objective
- Comment 7, J Abbott   Range with 50MMF
- Comment 19, J Abbott   Range with OM3 50MMF

Comments not requiring recirculation:

- Comment 11, A Ghiasi   Jitter (Withdrawn)
- Comment 12, A Ghiasi   CSRS test (Withdrawn)
- Comment 20, N Swenson   TWDP limit (Pile-on)

Unsatisfied TR's And ER

63 unsatisfied R comments on Drafts 2.0 to 2.4:

On D2.4

7, 19	Abbott, John
2	Adriaenssens, Luc
5, 6	Kolesar, Paul
1	Mei , Richard

On D2.3

50, 51	Abbott, John
6, 9, 17	Dawe, Piers
30	Kolesar, Paul
20	Popescu, Petre

On D2.2

22, 36, 44, 54, 76, 77, 78, 79, 80, 81	Abbott, John
49, 67	Ali, Ghiasi
37, 75, 86	Dawe, Piers
64	Dudek, Mike
33, 53	John George
56	Kolesar, Paul
20, 34, 51	Swanson, Steve
45	Weiner, Nick

On D2.1

1066, 1116	Dallesasse, John
1050, 1089	Dudek, Mike
1031, 1047	Swanson, Steve

On D2.0

165, 166	Abbott, John
173, 231, 273, 278, 279, 281, 285, 433 (ER)	Dawe, Piers
6, 215, 369	George, John
414	Ghiasi, Ali
160, 333	Kolesar, Paul
216, 251, 293	Swenson, Norman
213, 367	Thompson, Geoff

Motion 1 (Technical)

- **Move to accept the *10GBASE-LRM Interoperability Report* (mcvey_1_1105) as fulfillment of the requirements of the motion below from the 11/16-18/04 10GBASE-LRM meeting;**

  Motion # 3 Move that IEEE 802.3aq demonstrate a 10^{-12} BER over the rated distance on a specified channel (TBD) and show interoperability between PMD's of at least three vendors for 10GBASE-LRM to support technical feasibility prior to sponsor ballot.

- **Moved: Dan Dove**

- **Seconded: Sudeep Bhoja**

- **Results: For: 39   Against: 0   Abstain: 7**

Motion 2 (Technical)

Change project objectives to remove the requirement:

At least 300 meter on selected multimode fiber.

- **Moved: Mike Dudek**

- **Seconded: Tom Lindsay**

- **Results:**

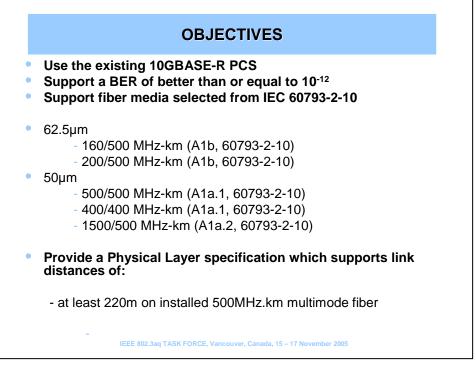For: 34   Against: 1   Abstain: 9

Motion 3 (Technical)

In the project objectives, delete the publication date of 60793-2-10 in all 6 places.

- **Moved: Paul Kolesar**

- **Seconded: Steve Swanson**

- **Results: Passed without objection.**

Motion 4 (Technical)

TF directs TF Chair to move that IEEE802.3 accept the amended 10GBASE-LRM objectives:

OBJECTIVES

- **Use the existing 10GBASE-R PCS**
- **Support a BER of better than or equal to 10^{-12}**
- **Support fiber media selected from IEC 60793-2-10**

- 62.5µm
  - 160/500 MHz-km (A1b, 60793-2-10)
  - 200/500 MHz-km (A1b, 60793-2-10)
- 50µm
  - 500/500 MHz-km (A1a.1, 60793-2-10)
  - 400/400 MHz-km (A1a.1, 60793-2-10)
  - 1500/500 MHz-km (A1a.2, 60793-2-10)

- **Provide a Physical Layer specification which supports link distances of:**

  - at least 220m on installed 500MHz.km multimode fiber

Moved: Dan Rausch

Seconded: Sudeep Bhoja

Votes: Y 34   N 0   A 4

Motion 5 (Technical)

Request WG authorization for sponsor ballot of P802.3aq/D2.4 per "Procedure For Conditional Approval To Forward a Draft Standard (formerly Procedure 10)" and authorize re-circulation ballots and interim meetings as necessary.

Moved: John Jaeger
Seconded: Lew Aronson

Votes: Y 32   N 2   A 2

Motion 6 (Technical)

Request SEC authorization for sponsor ballot of P802.3aq/D2.4 per "Procedure For Conditional Approval To Forward a Draft Standard (formerly Procedure 10)" and authorize re-circulation ballots and interim meetings as necessary.

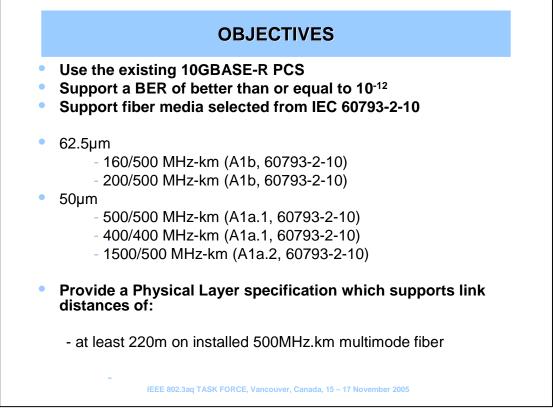Moved: John Jaeger
Seconded: Jim McVey

Votes: Y   32   N   2   A 2

10GBASE-LRM Motions to IEEE 802.3
& Supporting Material

Motion LRM1 (Technical)

Move that IEEE802.3 accept the amended 10GBASE-LRM objectives:

OBJECTIVES

- **Use the existing 10GBASE-R PCS**
- **Support a BER of better than or equal to 10^{-12}**
- **Support fiber media selected from IEC 60793-2-10**

- 62.5µm
    - 160/500 MHz-km (A1b, 60793-2-10)
    - 200/500 MHz-km (A1b, 60793-2-10)
- 50µm
    - 500/500 MHz-km (A1a.1, 60793-2-10)
    - 400/400 MHz-km (A1a.1, 60793-2-10)
    - 1500/500 MHz-km (A1a.2, 60793-2-10)

- **Provide a Physical Layer specification which supports link distances of:**

    - at least 220m on installed 500MHz.km multimode fiber

Moved: David Cunningham on behalf of 10GBASE-LRM TF
IEEE802.3 Votes: Y: 52   N: 1   A: 19

LRM Motion 2 (Technical)

Request WG authorization for sponsor ballot of P802.3aq/D2.4 per "Procedure For Conditional Approval To Forward a Draft Standard (formerly Procedure 10)" and authorize re-circulation ballots and interim meetings as necessary.

Moved: John Jaeger
Seconded: Lew Aronson

TF Votes: Y 32   N 2   A 2

Moved: David Cunningham on behalf of 10GBASE-LRM TF
IEEE802.3 secretary recorded vote.
Motion passed.

LRM Motion 3 (Technical)

Request SEC authorization for sponsor ballot of P802.3aq/D2.4 per "Procedure For Conditional Approval To Forward a Draft Standard (formerly Procedure 10)" and authorize re-circulation ballots and interim meetings as necessary.

Moved: John Jaeger
Seconded: Lew Aronson
TF Votes: Y 32   N 2   A 2

Moved: David Cunningham on behalf of 10GBASE-LRM TF
IEEE802.3 Votes Y: 57   N: 3   A: 9

Draft Re-circulation and Ballot Schedules

- **Recirculation of unsatisfied TR's:**
  > 22nd November – 6th December 2005

- **WG Chair, TF Chair & TF editor confirm approval rate greater than 75% and draft any required responses:**
  > 7th December 2005.

- **Sponsor Ballot:**

- **10GBASE-LRM only Comment resolution meeting:**