WELCOME TO THE OPENING SESSION
OF
10GBASE-LRM

17 – 19 MAY 2005

Task Force Chair For May Interim Meeting:

Jim McVey

10GBASE-LRM MAY 2005

- **IEEE802.3aq Officers**

- **Reflector and Web details**

- **Ground Rules & Standards Process**

- **10GBASE-LRM Objectives**

- **Project schedule**

- **Goals for this meeting**

- **Plan for this week**

IEEE 802.3aq Officers

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

- **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**

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

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**

MOBILE PHONES

PLEASE SWITCH OFF YOUR MOBILE PHONES

THANK YOU

GROUND RULES

802.3 TF Rules apply – Foundation based upon Robert's rules of order

- Anyone in the room may speak

- Anyone in the room may vote

- Respect – give it, get it

- No product pitches

- No corporate pitches

- No prices – this includes costs, ASPs, etc. no matter what the Currency

- No restrictive notices

IEEE-SA STANDARDS BOARD BYLAWS ON PATENTS IN STANDARDS

IEEE standards may include the known use of essential patents and patent applications provided the IEEE receives assurance from the patent holder or applicant with respect to patents whose infringement is, or in the case of patent applications, potential future infringement the applicant asserts will be, unavoidable in a compliant implementation of either mandatory or optional portions of the standard [essential patents]. This assurance shall be provided without coercion and prior to approval of the standard (or reaffirmation when a patent or patent application becomes known after initial approval of the standard). This assurance shall be a letter that is in the form of either:

a) A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement either mandatory or optional potions of the proposed IEEE standard against any person or entity complying with the standard; or

b) A statement that a license for such implementation will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination.
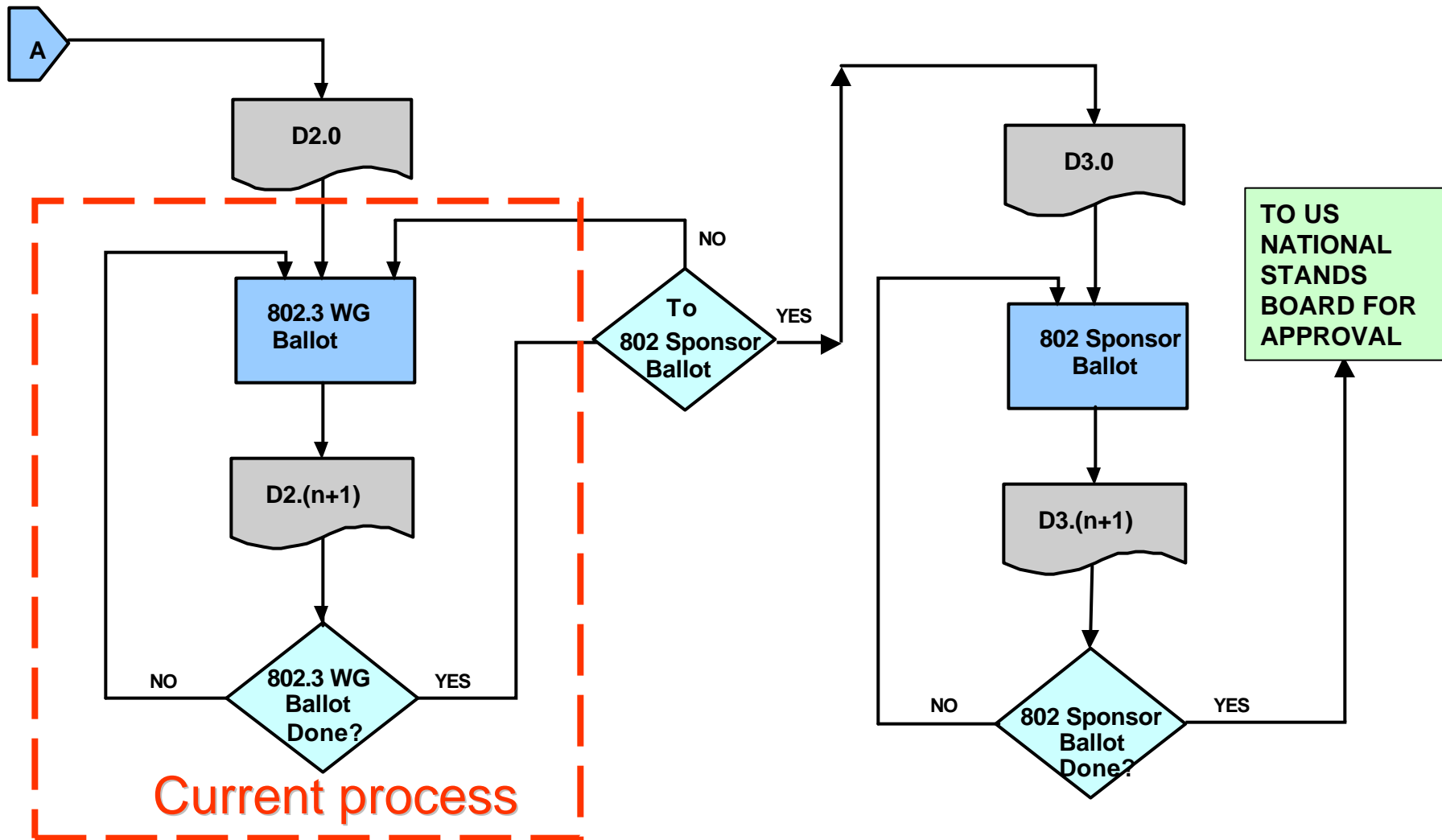
This assurance shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal and is irrevocable during that period.

INAPPROPRIATE TOPICS FOR IEEE TASK FORCE MEETINGS

- **Don't discuss licensing terms or conditions**

- **Don't discuss product pricing, territorial restrictions or market share**

- **Don't discuss ongoing litigation or threatened litigation**

- **Don't be silent if inappropriate topics are discussed - do formally object.**

  If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit http://standards.ieee.org/board/pat/index.html
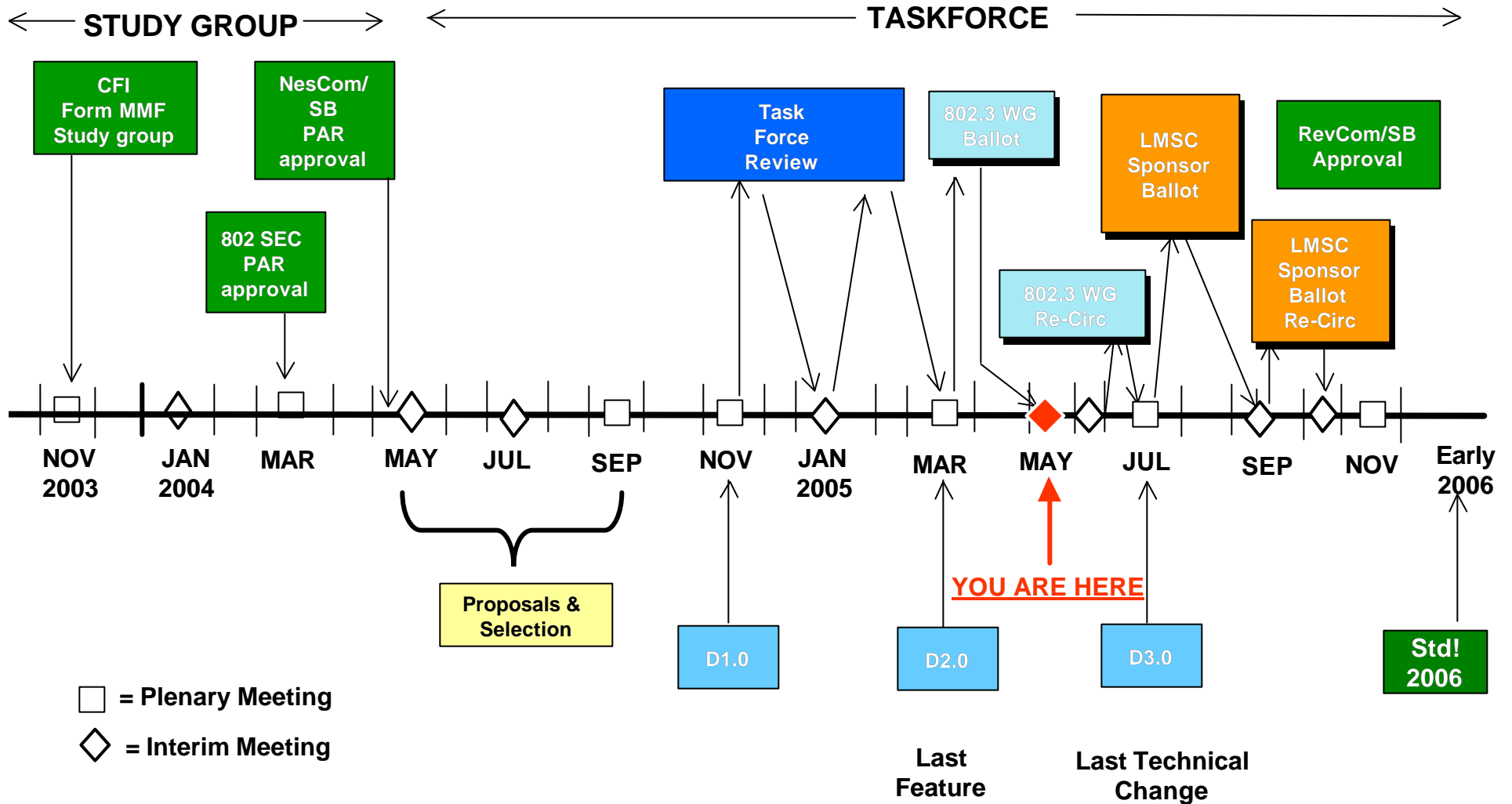
10GBASE-LRM TASK FORCE: IEEE STANDARDS PROCESS

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: 2003**

- 62.5µm
  - 160/500 MHz-km (A1b, 60793-2-10:2003)
  - 200/500 MHz-km (A1b, 60793-2-10:2003)
- 50µm
  - 500/500 MHz-km (A1a.1, 60793-2-10:2003)
  - 400/400 MHz-km (A1a.1, 60793-2-10:2003)
  - 1500/500 MHz-km (A1a.2, 60793-2-10:2003)

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

  - at least 220m on installed 500MHz.km multimode fiber
  - at least 300m on selected multimode fiber

10GBASE-LRM TIMELINE

STUDY GROUP

TASKFORCE

CFI
Form MMF
Study group

NesCom/
SB
PAR
approval

Task
Force
Review

802.3 WG
Ballot

LMSC
Sponsor
Ballot

RevCom/SB
Approval

802 SEC
PAR
approval

802.3 WG
Re-Circ

LMSC
Sponsor
Ballot
Re-Circ

NOV
2003

JAN
2004

MAR

MAY

JUL

SEP

NOV

JAN
2005

MAR

MAY

JUL

SEP

NOV

Early
2006

Proposals &
Selection

YOU ARE HERE

D1.0

D2.0

D3.0

Std!
2006

☐ = Plenary Meeting

◇ = Interim Meeting

Last
Feature

Last Technical
Change

Meeting Dates & Places

- **Comment resolution: Austin 17th - 19th May**

- **Comment resolution: London 14th –16th June**

- **1st Recirculation: 24th June – 11th July**

- **Plenary Meeting: San Francisco, week of 18th July.**

London Interim Meeting 14th –16th June

Hotel Information

Novotel London Tower Bridge

10 Pepys Street

London

EC3N 2NR   UK

IEEE 802.3 Room Rate: £155.00 (GBP) Single Occupancy including VAT and Breakfast

£175.00 (GBP) Double Occupancy including VAT and Breakfast

Group Name: IEEE

In order to make room reservations either:

- Call the hotel directly on +44 207 265 6033 quoting the preferential code IEEE at time of booking.
- Complete the Hotel Reservation Form and Fax it to +44 207 265 6060.

- URL for meeting details
  http://grouper.ieee.org/groups/802/3/interims/london_0605.html

GOALS FOR THIS MEETING

- **Begin comment resolution of the draft D2.0.**

- **Assign comments accepted for further study to ad hoc with the following goals:**

    - Study until the June Interim meeting.
    - Bring proposed resolution to June Interim meeting.

- **If required, adopt amendments to fiber, link or channel models per associated supporting presentations.**

COMMENT REVIEW IN WG BALLOT

• Unlike taskforce review, comments can't be pushed from one ballot to the next.

• Comments propose changes to the document. To change the document the taskforce must accept the response by a 75% vote. The response can be "accept", "accept in principle" with a new remedy, or "reject" with an explanation. There is no fixed order for calling for a vote on each of the three types of remedies.

• There can be multiple attempts to adopt different remedies. The editor will record remedies and voting results. The Chairman may defer consideration of a comment after a number of attempts to adopt a remedy.

• All comments must be considered and a response written for them with agreed (by a 75% vote) changes implemented in the draft before a recirculation ballot can occur.

• All responses should be respectful and provide thoughtful justification for the response <u>especially</u> if other than accept.

• Response generation can be delegated to subgroups or even individuals, but the customary practice is to only do this delegation by a motion of the group, typically at the end when time is running out.

• The comment database is the master minutes for comment resolution – no need for minutes on comment resolution.

COMMENT REVIEW IN WG BALLOT

- **Some comments on D2.0 require further study:**

    - These will be assigned to ad hoc(s) and studied between the May and June interim meetings.

- **Comment resolution of D2.0 will take two interim meetings: May and June.**

    - Plan to be at the June meeting!

- **Recirculation of D2.1 will occur out of the June meeting.**

Proposed Outline Agenda – 10GBASE-LRM

- **Chairs opening remarks**
- **Approve minutes**
- **Editors report**
- **Ad hoc reports**
- **Presentations**
- **Comment review preliminaries**
  - Agree editors proposed order for addressing the comments (Procedural vote requiring a majority).
  - Agree which comments are to be accepted but need further study (Procedural vote).
  - Assignment of comments for study to ad hoc(s) with objective of bringing resolution to the June meeting (Procedural vote).
- **Comment Review**
- **Technical Motions**
- **On Thursday morning comment review and a brief closing session**
- **Adjourn until June where comment review of D2.0 will continue.**

Agenda – 10GBASE-LRM

10GBASE-LRM				
Tuesday 17 May 2005				
Presenter	**Topic**	**Length (Minutes)**	**Start**	**Finish**
Jim McVey	Opening Session	0:30:00	9:00	9:30
	Welcome and Introduction			
	Appoint Recording Secretary			
	Goals for the Meeting			
	Reflector and Web			
	Ground Rules			
	Review of Draft Project Timeline (not to be voted upon during 25 May)			
	Approve Minutes			
	Other Reports			
Nick Weiner	Editors Report	0:15:00	9:30 AM	9:45 AM
Tom Lindsay	TP2 Conference Call Summary	0:10:00	9:45 AM	9:55 AM
	Break	0:15:00	9:55 AM	10:10 AM
Jim McVey	Report from TP3 Conference Calls	0:15:00	10:10 AM	10:25 AM
	Channel Ad-Hoc	0:10:00	10:25 AM	10:35 AM
	General			
Steve Swanson	The Need for a Robust 10GBASE-LRM Standard	0:15:00	10:35 AM	10:50 AM
John George	Installed Base Coverage Deficiencies and Remedies for 10GBASE-LRM	0:15:00	10:50 AM	11:05 AM
John Abbott	Scaling LRM Length to Match PIE-D Capability and Failure Rate Using Gen67 Fiber Set	0:15:00	11:05 AM	11:20 AM
John Abbott	Effect of 1355nm Source on LRM Length/PIE-D/%failure tradeoffs	0:15:00	11:20 AM	11:35 AM
Norman Swenson	A New Approach to Measure TX Signal Strength and Penalty	0:30:00	11:35 AM	12:05 PM
Paul Kolesar	Dynamic RX Test Justification	0:15:00	12:05 PM	12:20 PM
	Lunch	1:15:00	12:20 PM	1:35 PM
John Dallesasse	Modification of Comprehensive Stressed Receiver Sensitivity and Overload Test for Verification of Equalizer Adaptation Times	0:20:00	1:35 PM	1:55 PM
Tom Lindsay	TP3 Noise Loading	0:20:00	1:55 PM	2:15 PM
Albrecht Rommel	Noise Load for Comprehensive Receiver Test	0:15:00	2:15 PM	2:30 PM
Albrecht Rommel	Stressors Selection, Coverage and Reach Requirements	0:15:00	2:30 PM	2:45 PM
Tom Lindsay	Calibration of ER for TP3 Stress Tests	0:10:00	2:45 PM	2:55 PM
	Break	0:15:00	2:55 PM	3:10 PM
Robert Lingle, Jr	Analysis of TP3 Candidate Stressor Sets	0:05:00	3:10 PM	3:15 PM
	Start Comment Review	1:30:00	3:15 PM	4:45 PM
	Break	0:15:00	4:45 PM	5:00 PM
	Comment Review	1:00:00	5:00 PM	6:00 PM
Wednesday 18 May 2005				
Presenter	**Presentations continued**	**Length (Minutes)**	**Start**	**Finish**
	Comment Review	0:20:00	8:00 AM	8:20 AM
		0:20:00	8:20 AM	8:40 AM
		0:40:00	8:40 AM	9:20 AM
			9:20AM	6:00 PM
Thursday 19 May 2005				
Presenter	**Topic**	**Length (Minutes)**	**Start**	**Finish**
	Possible Comment Review		8:30 AM	
	Closing Session			
	Meeting Adjourned			12:00 PM