

**WELCOME TO THE  
OPENING SESSION OF  
10GBASE-LRM MEETING  
16 – 18 NOVEMBER 2004**

**Task Force Chair: David Cunningham**

# AGENDA NOVEMBER 2004

- **Opening information**
- **Reminder, goals for the meeting**
- **Agree agenda**

# MOBILE PHONES



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PHONES**

**THANK YOU**

# GROUND RULES

**802.3 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**

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# 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 portions 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.

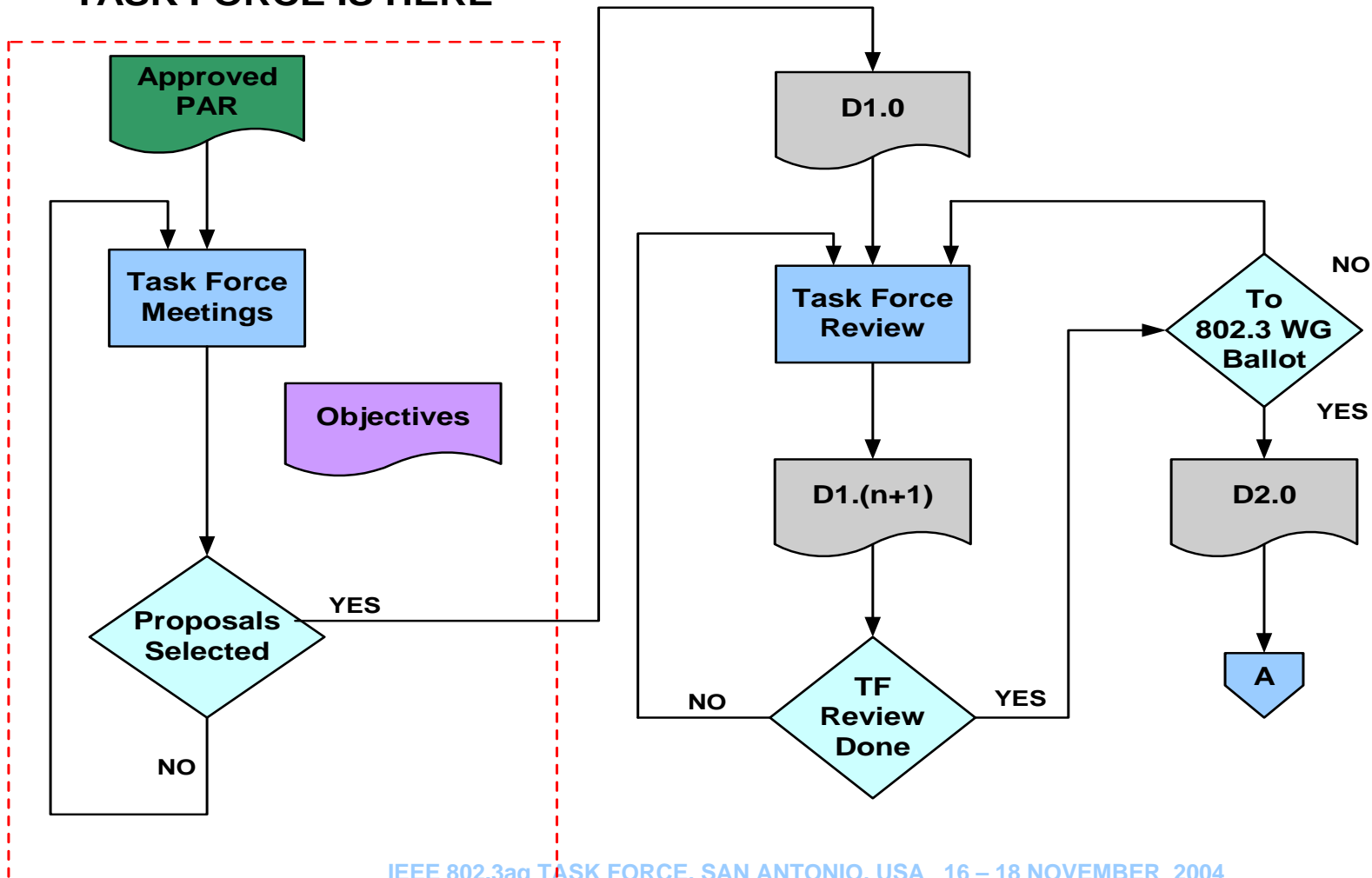
# INAPPROPRIATE TOPICS FOR IEEE TASK FORCE MEETINGS

- **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](mailto:patcom@ieee.org) or visit <http://standards.ieee.org/board/pat/index.html>**

# OUR TASK FORCE JOB: IEEE STANDARDS PROCESS

**TASK FORCE IS HERE**

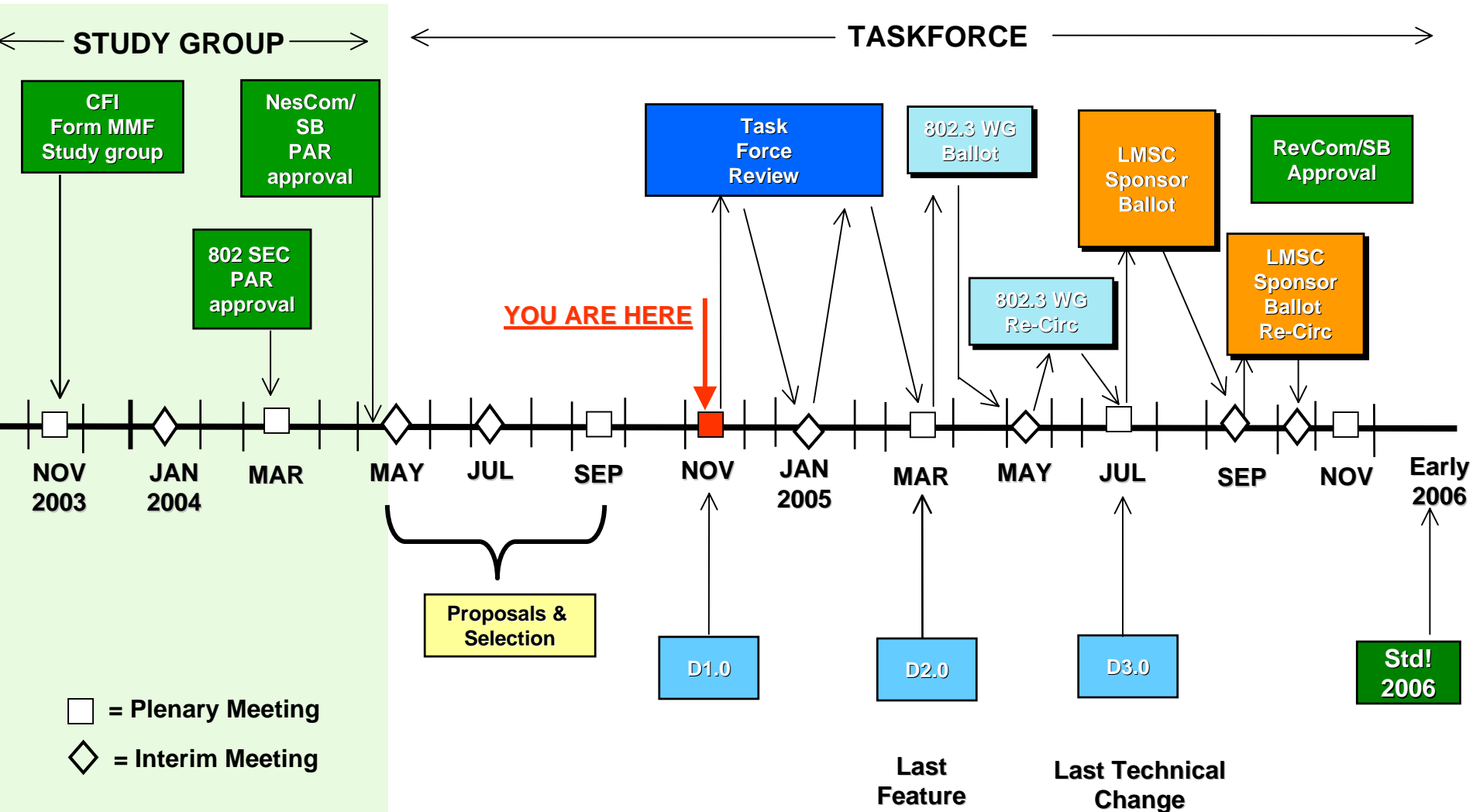




# OBJECTIVES

- **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**
- 62.5 $\mu$ m
  - 160/500 MHz-km (A1b, 60793-2-10:2003)
  - 200/500 MHz-km (A1b, 60793-2-10:2003)
- 50 $\mu$ m
  - 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



# GOALS FOR THE MEETING

- **To review the draft D0.2 and associated comments.**
- **To consider contributions proposing corrections or additions to the draft.**
- **To adopt the baseline draft with amendments agreed during the interim meeting.**
- **To direct the editor to prepare a draft D1.0 for a 30 day task force ballot.**

# Proposed Agenda – 10GBASE-LRM

10GBASE-LRM				
Tuesday 16 November 2004				
Presenter	Topic	Length (Minutes)	Start	Finish
David Cunningham	Opening Session	00:30:00	08:00	08:30
	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			
	<b>Channel Ad Hoc Reports</b>			
DGC for R Penty	Report from Task 1 Group	00:15:00	8:30 AM	8:45 AM
Jonathan King	Report from Task 2 Group	00:15:00	8:45 AM	9:00 AM
Jonathan King	Experiments on Time Variation Due to Polarisation and MMF Shaking and Initial Results	00:15:00	9:00 AM	9:15 AM
Ketan M Patel	Detailed Study on Impulse Response Fluctuation Induced by Polarization Variation	00:15:00	9:15 AM	9:30 AM
Petar Pepeljugin	Improvements to Modal Noise Penalty Calculations	00:30:00	9:30 AM	10:00 AM
Yu Sun	Report from Task 4 Group	00:15:00	10:00 AM	10:15 AM
	<b>Break</b>	00:15:00	10:15 AM	10:30 AM
Joerg-R Kropp	Variation in Multimode Fiber Response Summary of Experimental Results	00:15:00	10:30 AM	10:45 AM
David Cunningham	Observed Variation of Received Waveforms in Multimode Fibre:....	00:15:00	10:45 AM	11:00 AM
	<b>Other Reports</b>			
Tom Lindsay	Report of TP2 Con-Calls	00:15:00	11:00 AM	11:15 AM
Tom Lindsay	Relationship between TP2 and TP3 Tests and Budget (update)	00:30:00	11:15 AM	11:45 AM
Piers Dawe	Signal Metrics for 10GBASE-LRM	00:30:00	11:45 AM	12:15 PM
Tom Lindsay	Preliminary TP2 Waveform Study Results	00:30:00	12:15 PM	12:45 PM
	<b>Lunch</b>	01:15:00	12:45 PM	2:00 PM
Greg Lecheminant	Test Metrics for TP2	00:15:00	2:00 PM	2:15 PM
Jan Peeters Weem	Alternative Proposal to TP2 testing	00:30:00	2:15 PM	2:45 PM
Mike Lawton	Report of TP3 Con-Calls	00:15:00	2:45 PM	3:00 PM
	<b>Break</b>	00:15:00	3:00 PM	3:15 PM
	<b>General</b>			
Prof Ralph	Fiber Modelling Resolution and Assumptions Analysis, Data and Recommendations	00:30:00	3:15 PM	3:45 PM
John Abbott	Monte Carlo Update: PIE Metric Results, Further Benchmarking to Fiber Data	00:30:00	3:45 PM	4:15 PM
		00:15:00	4:15 PM	4:30 PM
Yu Sun	Updated Results of PIE Metrics Calculations	00:15:00	4:30 PM	4:45 PM
John Ewen	108-Fiber and Gen54YY Delay Sets: Comparison with Spreadsheet Model	00:15:00	4:45 PM	5:00 PM
	Break	00:15:00	5:00 PM	5:15 PM
John Ewen	PIE Metric Comparison: 108-Fiber and Gen54YY Delay Sets	00:15:00	5:15 PM	5:30 PM
Paul Kolesar	10GBASE-LRM Specification Philosophy	00:15:00	5:30 PM	5:45 PM

# Proposed Agenda – 10GBASE-LRM

Wednesday 17 November 2004				
Presenter	Topic	Length (Minutes)	Start	Finish
	Comment Review		8:00 AM	6:00 PM
Thursday 18 November 2004				
Presenter	Topic	Length (Minutes)	Start	Finish
	Closing Plenary and Voting		8:30 AM	12:30 PM
	Meeting Adjourned			