

IEEE 802.3aq
10GBASE-LRM
Task Force

Report to closing session of
IEEE 802.3 CSMA/CD WG

Portland, OR
15 JULY 2004

Outline

- **Goals for this meeting**
- **Agenda for this meeting**
- **Accomplishments this week**
- **Significant motions**
- **Back up slides**

Announced Goals for this week.

- **To adopt a baseline fiber model for 62/125 FDDI-grade fiber.**
- **To select baseline technologies for the standard.**
- **To direct the editor to draft the initial baseline draft for review at the next interim meeting.**

Agenda,

Tuesday 13 July

08:00 AM	Opening Remarks
08:40 AM	Ad Hoc Reports
10:10 AM	Break
10:30 AM	MMF Modeling & Measurements 1
12:40	Lunch
2:00 PM	MMF Modeling & Measurements 2
3:00 PM	Break
3:25 PM	Technology Proposals & Comparisons
5:40 PM	Adjourn for day

Agenda, Wednesday 14 July

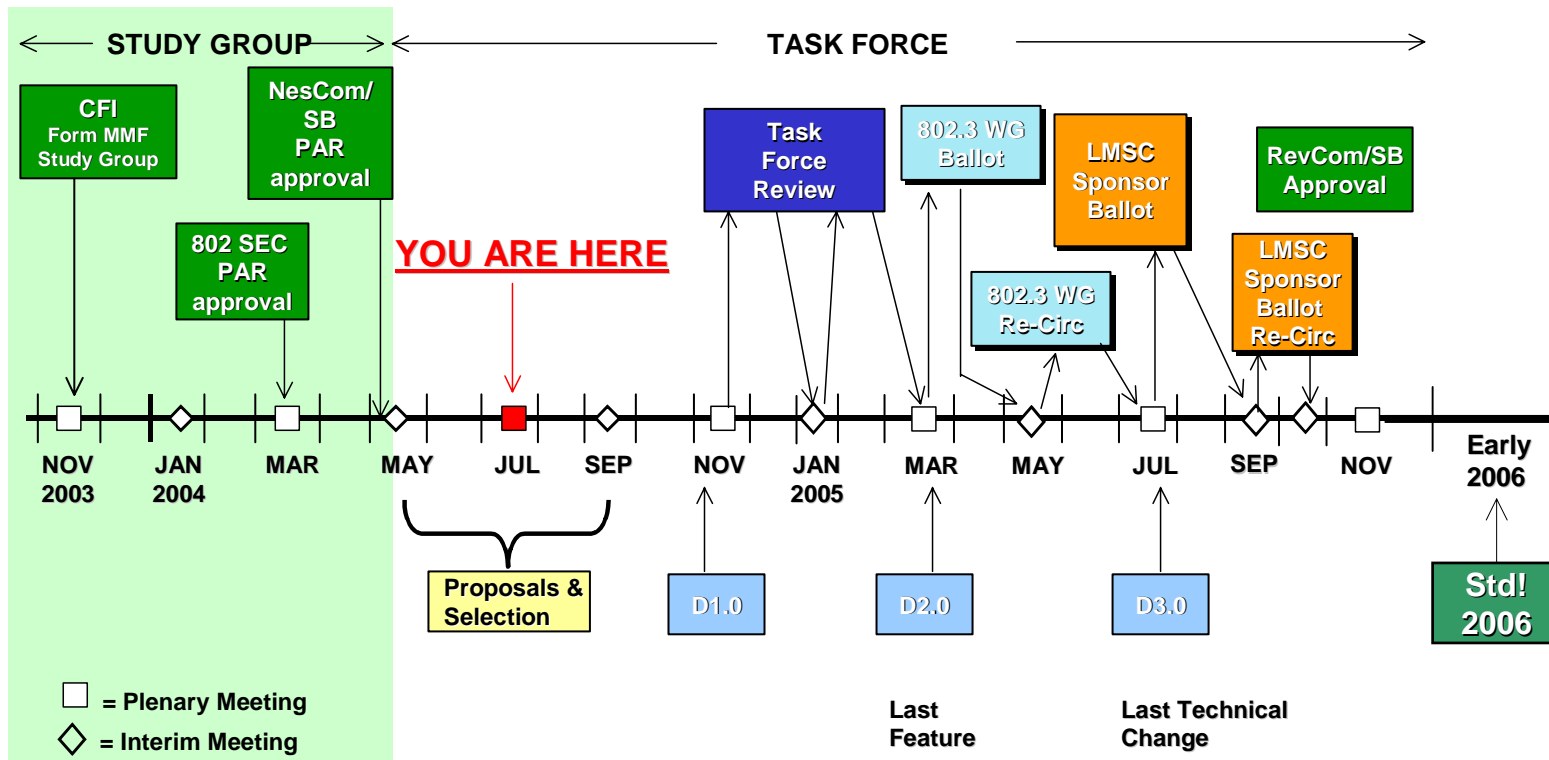
08:00 AM	Meeting Start
08:20 AM	Open period for late presentations
09:20 AM	EDC Baseline Proposal
1:30 PM	Lunch
2:15 PM	Closing Session and Motions
5:45 PM	End of 10GBASE-LRM TF Meeting

- **Thursday morning 15 July: Channel Ad Hoc to meeting**
- **All meetings held in meeting room: Queen Marie**

IEEE 802.3aq Portland meeting highlights

- Task Force met for two days (Tuesday & Wednesday)
- ~ 80 attendees
- ~ 23 technical presentations presentations
- Agreed methodology for fiber modeling: both TIA Monte Carlo and Gigabit Ethernet “81 fiber” models will be used
- Wrote response to TIA FO 4.2.1 letter regarding fiber modeling
- Adopted timeline for the project
- Adopted EDC with NRZ as baseline technologies for preparation of an initial draft
- Chair instructed editor to prepare baseline document for review and adoption at the next meeting
- Channel Ad hoc met Thursday morning

10GBASE-LRM DRAFT TIMELINE



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Motion: Technical

Direct the channel modeling ad-hoc to enhance Cambridge model with consideration of the following input.

- Re-examine perturbations of present Cambridge model to more closely represent observed behavior shown in DMD plots of kolesar_1_0704 and delay sets of abbott_1_0704. Possibilities to accomplish this include seeding the existing delays with those taken from this data and/or generation of a new class of index perturbations to replicate underrepresented delay set behaviors of installed fiber (e.g. “kinked” delays).

Moved: Paul Kolesar
Second: Steve Swanson

Y: 50 N: 0 A:7
Result: Pass

Motion: Technical

Direct the channel modeling ad-hoc to enhance Cambridge model with consideration of the following input.

- Consider scaling all delay sets to 500 MHz-km OFL BW without limiting DMD to 2 ps/m.
- Consider non-uniform scaling methods, such as scaling delays as a function of local index delta, should uniform scaling produce delay structures not observed in manufacturing.

Moved: Paul Kolesar
Second: Steve Swanson

Y: 8 N: 31 A: 11
Result: Failed

Motion: Technical

Agree to apply the following approach to channel modeling effort. Use both the Cambridge and FO-4.1.2 models as cross check for each fiber type after modification as follows.

Consider using the Kolesar motion 2, to enhance the Cambridge 62.5 μm fiber set and consider creating 50 μm equivalent sets for OM2 and OM3. Enhance FO-4.1.2 fiber delay set by modifying OM3 set for 1300 nm operation and create OM2 and 62.5 μm equivalent sets.

Moved: Paul Kolesar
Second: Steve Swanson

Y: 45 N: 0 A:10
Result: Pass

MOTION: Technical

Accept letter to TIA FO-4.1 regarding multimode fiber model concerns.

Moved: Petar Pepeljugoski

Seconded: John Dallesasse

PASSED BY ACCLAIMATION

Motion#	8			
<p>Move that the 802.3aq task force adopt the NRZ EDC based proposal (lawton_01_0704) all of the diagrams on page 10,11 & 13 in aronson_2_07_04 as the basis for on-going committee tasks in order to focus & progress the work towards a draft standard as modified according to the notes 1 and 2 below.</p> <p>Note 1: This motion does not change the draft TF timeline nor does it preclude new proposals from being brought forward in the September interim. It does direct the task force to work on key areas of the NRZ EDC proposal.</p> <p>Note 2: All the table entries in lawton_01_0704 with items in red & all of diagrams from pgs. 10, 11, 13 in aronson_2_0704 shall be considered and identified as "TBD", with a corresponding Editors note based upon the placeholder value to be considered by the value / parameter in red.</p>				
Moved	Mike Lawton			
Seconded	Pete Hallemeier			
Technical (75%)	Yes	No	Abstain	Result
	59	0	2	Passes

Motion#	9			
Adopt the timeline as presented by David Cunningham in his closing comments presentation.				
Moved	David Law			
Seconded	John Jaeger			
Technical (75%)	Yes	No	Abstain	Result
	by acclamation			Passes