

Minutes of Meeting of 10GBASE-T Study Group, 802 Plenary, Dallas, TX, March 10-13, 2003

Tuesday, March 11, 2003

The meeting of the Study Group was called to order at 8:30AM on Tuesday, by the chair, Brad Booth. After a round of introductions, the chair presented the proposed agenda, which was then approved by acclamation.

The chair then reviewed the events leading to the establishment of the Study Group and set the goals for the present meeting, namely the presentation of the contributions and furthering the work of the AdHoc's. The Chair further reviewed the IEEE structure for standards development and presented the IEEE bylaws relating to patents in the standards process.

The schedule for interim meetings based on straw polls taken in Vancouver were reviewed and reaffirmed, namely an interim on May 21-22 co-located with CX-4 and in Italy in September, exact dates to be finalized, possibly co-located with EFM.

The Chair also reviewed the PAR requirements and the forthcoming Objectives; for approval of a PAR request by .3 at the July Plenary, the documents must be presented to them by June 20. Further, an extension of the Study Group must be requested at the current Plenary.

The following reports were then presented:

Liaisons received:

Alan Flatman: SC25/WG3 N, Wellington Meeting, offering cooperation with Study Group for work toward extensions to Cat6 cabling.

AdHoc reports were presented by the respective chairs: William Jones, Channel AdHoc, and Chris DiMinico, Cabling AdHoc

Technical presentations were then made as per the agenda by Jones, DiMinico, Hinrichs (Dinh), Babanezhad, Jones, Babanezhad, Powell, Hayes, Sallway and Flatman. The meeting was closed at 5:30PM.

Wednesday

The meeting commenced Wednesday morning at 8:30 as the Cabling AdHoc, chaired by Chris DiMinico, who presented the agenda and reviewed the history of the evolution of the cabling specifications for the 1000BASE-T standard.

The Cabling AdHoc agreed to proceed with collecting and collating cable performance measurement data from participating companies and to provide the data to the Modeling

AdHoc for use in system performance simulations. It was hoped that this data will be available in 10 day's time, or about March 22.

The AdHoc then proceeded to draft return liaisons to TIA TR-42 and ISO/IEC SG25/WG3. It was pointed out that any liaisons must be sent by the relevant 802.3 Working Group, in this case 802.3. A draft for TR-42 was agreed to, while it was decided to table an answer to SG25/WG3 until the July meeting.

The Modeling AdHoc next met, chaired by William Jones, who reviewed the near term objectives of the AdHoc, namely the creation of an agreed simulation model for use by the Study Group in assessing the feasibility of the proposed 10GBASE-T project as required by the 5 Criteria of the PAR document. After debate, a set of test cases were proposed for determining channel capacity and accepted by motion. (Test cases to be posted on website by Jones):

Motion to accept: M DiMinico S Zimmerman Y: 23 N: 0 A: 4

After debate, an error rate of  $1e-12$ BER was agreed to by acclamation, to be used in the above capacity calculations, but not necessarily in the standard. The calculations will use the data to be provided by the Cabling AdHoc.

A second approach to simulations, referred to as the Optimum DFE SNR methodology, was discussed, but the group decided to defer the matter pending further discussions.

Thursday, March 13

The study group convened at 8:30AM and heard a presentation by T. Cobb on the potential capacity of improved Category 6 Cabling, followed by the presentation by Eisler of a possible draft for the 5 Criteria required for the PAR. After debate, the group accepted the edited text (eisler\_2\_0303.pdf) as the basis for further work on the PAR.

Motion: M-Eisler S-Flatman Y: 41 N: 0 A:0 802.3voters Y:10 N: 0 A: 0

The group drafted a request for 802.3 to take any action necessary to extend the life of the Study Group for an additional six months.

The meeting was thereupon adjourned.

George Eisler