

Tentative Minutes of IR PHY Sub-Group Meeting

Maui, Hawaii
July 11, 1995

Meeting called to order at 8:40 AM by Tom Baumgartner who explained that former Chairman Barry Dobyms no longer works for Photonics and will no longer be attending 802.11. At the full working group this morning Tom accepting the position of Chairman of the IR PHY group for the balance of 1995.

Present:

Tom Baumgartner, Spectrix Corp.
Rui Valadas, University of Aveiro, Portugal

The first step is to create an agenda for this meeting.

Agenda:

1. Question passed from Full working group on receiver sensitivity and energy detect level
2. Paper proposing a second Field of View definition

Agenda adopted.

The meeting doesn't have the text of the E-Mail that was sent to Vic Hayes. The discussion was based on understanding of the question. Receiver sensitivity is more sensitive than energy detect. The other PHY's have the values about the same. The problem is that the current setting allows for someone to start transmitting while another good reception is underway. The reasoning for current values is based probably on Photonic's experience with their energy detect performance that would stop transmission when certain noise was detected. Rui is doing study simulations on this item and although results are not finished, it is clear that the values should be about the same. The bandwidth cuts out the signal below 1 MHz because this is the band for IR interference sources. This is a complex issue. This week Rui will get exact text of question and write a short paper responding to the question.

The paper 95/44r1, prepared by Tom Baumgartner for the May meeting in Salt Lake City was presented. Rui commented that this transmit Field of View proposal introduces the problem of antenna siting. Tom responds that the proposal is made to reduce power consumption of the mobile unit while still providing reasonable performance. Rui believes that the existing mask demands acceptable power drain. He believes that a truly diffuse system is essential. There are also high efficiency LED's coming. Table further actions on this document.

Meeting adjourned at 10 AM.

