Approved Minutes of the IEEE P802.11

**Full Working Group
Plenary Meeting
Montreal, PQ, Canada**

10 to 14 November 1997

Monday, 10 November, 1997

1.0 Opening Meeting called to order by Vic Hayes at 15:00, Agenda of 43rd session of 802.11 is in doc. :IEEE P802.11 11-97/100R2. George Fishel, secretary[1], is present and ready to take the notes.

Objectives for this meeting, all groups

1.1   Review and presentation of Technical Submissions

1.2   Criteria and requirements multipath (Channel Models)

  1.2.1 PAR processing
         1.2.1.1 approval for 802.1 standard(s)
         1.2.1.2 TGb PAR, input from other groups
         1.2.1.3 Compatibility/Co- Existence
         1.2.1.4 Evaluation process
  1.2.2 TGa HIPERLAN type 1 tutorial Tea afternoon)
  1.2.3 TGa Attend Moon eve tutorial of HIPERLAN to 802
         1.2.3.1 Schedule confirmation**.**

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1.1 Roll Call: People in the room were invited to introduce themselves.

1.2 Voting rights:

1.2.1 Participation in debates, moving and seconding is only permitted by voting members, in all 802.11 meetings (at all levels). The subgroup chairs may permit observers to participate in debates.

1.2.2Voting at the working group level is by voting members only. Chair may permit observers to participate in debate. To become a voting member:
   1.2.2.1participate in at least 2 out of 4 consecutive plenary meetings. Voting rights start at third meeting
   1.2.2.2participation in at least 75% in meetings, in the room
   - one interim may be exchanged for a plenary
   - Voting members will get a token to be used at votes

1.2.3 Voting rights can be maintained:
   1.2.3.1by participation in 2 plenary meetings within 4 consecutive plenary meetings
   1.2.3.2one interim may be substituted for a plenary

1.2.4Voting rights may be lost:
   1.2.4.1 after failing to pay the conference fee
   - after missing two out of three consecutive letter ballots

1.2.5Current state of member status:

   1.2.5.1Voting members

   1.2.5.2Aspiring voting members

   1.2.5.3Nearly voting members

1.3 Attendance list, Register

1.4 Administration: The attendance list was circulated, Richard Paine supervising - 75% attendance according to the attendance list is required to qualify for participating in the meeting as a whole, so make sure to sign the book. Copies of the attendance list are handed out before the end of each meeting.
   1.4.1 important for administration of voting rights that the attendance book is used properly.
   1.4.2 sign per meeting (morning, afternoon, evening). Do not sign ahead.
   1.4.3 place initials. Do not cross or underline.
   1.4.4- circle the letter corresponding to the meeting you attend when signing (F=full 802.11, P=PHY, M=MAC group).

1.5 Check e-mail addresses in the book:
   1.5.1 some addresses have been struck, or have a $-sign added to the right - those received complaints from the reflector
   1.5.2 please strike your e-mail address if you do not use it
   - if you do not disagree to receiving very long files, mark bulk e-mail with yes

Logistics: Document distribution is done using pigeon holes - you will find your copies and messages in the referenced location in the expanding file folders in the slot *in front of* your name.

Conference fee to be paid through registration office.
   Copying and collection of files is managed by Stuart Kerry assists in the pigeonhole stuffing. Stuart is also in charge of document numbers.

Coffee breaks at 10 AM and 3 PM. Noon to 1:00 PM lunch

Document distribution:
- sign in for a slot, remember the letter and number
- pigeon holes are file folders with a letter id on each folder and a number on each slot
- in each folder are numbered slots, each of which is 'owned' by a person
- each person owns slot in front of number

1.5 IEEE Patent Policy Vic Hayes explained the IEEE Patent Policy as per Clause 5 of the IEEE Standards By-Laws and per Clause 6.3 of the IEEE Standards Operations Manual. He specifically asked for notification from members of patents applicable to the Published standards or draft standard and that patent holders submit the requested statement.

1.6 Other announcements

- General information available on diskette from George Fishel
  - 1 diskette with relevant documents mailed
- Every two years the officers must be reconfirmed
  - Vic Hayes

2.   Approval of the minutes of previous meetings

Minutes of the Maui meeting approved 11-97/72

Motion 1:   Dean/A nil   24-0-1

3.   Reports

3.1 the Executive Committee ExCom meeting report made by Vic Hayes

- Start date of DIS 8802-11 ballot is unknown. ISO secretariat is behind schedule, but it would be a 4 month ball need to pass a motion with a planned position
- Need to present the number of persons that commit to work on the PAR throughout the process to the approval standard
  - please submit notices to me

The ExCom request the number of 802.11 members that will be willing to work on a on new PARs:

39 said they were willing to work on 802.11a
44 said they were willing to work on 802.11b
9 said they were willing to work on 802.11c
17 said they were willing to work on the maintenance PAR.

All motions on the recent letter ballot passed. A report is available in the documents list

3.2 FCC meeting report
Dean Kawaguchi gave a report of the teleconference with the FCC. Meeting minutes will be available later in the day.

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4. **Review of Contributions**
     Document 802.11-97/143   List of contributions for the Montreal meeting.
     Vic Hayes reviewed the documents list.
Some discussion on the contribution by Naftali Chayat # 97/96 Tentative criteria for comparison of modulation methods.

Motion 2: Beginning tomorrow morning (Tuesday) that all session of task group a of task group be moved to parallel sessions with task group b.

Bob O'Hara / no Second   **Motion 2 fails.**

5. **Adoption of Agenda**
     Vic review the agenda material:

     Motion 3: To adopt agenda 11-97/100
     Stuart Kerry/Jan Boer   Agenda adopted motion 3 passes. 23-0-0
6. **Unfinished Business**
     6.1 PAR for 2.4 GHz work
     6.2 Liaison with WINForum's
             SRDC   97/46, 97/80, 97/106+107
7. **New Business**
     7.1 802.1 PAR
         97/101
Motion 4: Motion to submit PAR document to Ex Com 97/101 For submission
Keith / Tom   20-0-5 Motion 4 passes.

Motion 5:   Motion to approve doc 97/102 be submitted to ExCom for submission to NesCom

Naftali Chayat/Jan Boer Motion 5 passes 22-0-2

     8.   **Meeting adjourned for the day by Vic Hayes at 16:40.**

Wednesday 12, November 1997
13:00

Meeting was reopened by Vic Hayes at 13:10 hours.

Member introduction.

Stuart Kerry presented the documents update.

Vic Presented the agenda update:

Request was made for volunteers to work on the maintenance PAR. Dean Kawaguchi requested a definition on how the maintenance PAR works. This request was added as an agenda item.

Motion 6: Agenda approval: Motion to approve
Dean Kawaguchi/Stuart Kerry   22-0-0   Agenda approved

9.4.1 A study group will meet to discuss the IR PHY
9.4.2 Meeting on Maintenance in Menkenzie Room
9.4.3 2.4 GHz spectrum in Europe a meeting will be held at the European
        CEPT received a letter from a company asking for changing the rules (like in the USA) to permit the
        whole band for RFID devices at 500 mW. Just for 8 kbit/s

There is a meeting of Spectrum Engineering 24 next week in London to discuss this

Information and concern could be addressed to
        Jim Connolly at the European Radio Office (ERO):connolly@mail.ERO.DK
        Anne Leino (chair of SE24 who do the compatibility assessment): anne.leino@ntc.nokia.com

9.4.4 Pigeon holes
        –one per person please!
        –spare complete sets available?
        –those taking more than one have automatically volunteered to make up for late arriving people

10. Old Business
        •10.1   2.4 GHz PAR
        •10.2   Other PARs
        doc 97/147

Discussion on the maintenance PAR and discussion of the schedule.

Errors in the current standard need to be corrected and the maintenance PAR will be a way of correcting
those errors.

Motion to :
        To rectify a number of errors in the current standard and to accommodate inputs from the JTC1
        review to result in a single JTC1/IEEE Standard.

        In7 Purpose: strike numerous and replace "resulting from the review of " into "found in
        reviewing ", So the new purpose would reed:

        To correct the errors found in reviewing an interpretation requests to the current standard and
        from JTC1review.

**Motion 7: Made to approve the changes in Doc 97/147 as amended and to request SEC to submit all three
PARS to NesCom for approval at the December meeting**
Dean/Anil   22-0-1   Motion 7 passes

11. New Business
•11.1 Vote to JTC1 LB on DIS 8802-11
      –doc 97/148
•11.2 Proposed draft 802.11c
      –doc P802.11c/D1
      –doc 97/150
11.3

Motion 8: Motion to forward document 97/148 to SEC as the US position to be forwarded to JTC1

Stuart Kerry/ Bob O'Hara   16-0-5   Motion 8 passes.
Report by Victoria Poncini on the status of the work on the bridging Document IEEE 802.11c draft 1

Submission by Michael Fischer on Bridging solution. Draft will be available tomorrow.

Naftali made a comment on bridging and he said that two methods of bridging Translation and Encapsulation Bridging. The bridging that should be described is Translation Bridging.

Motion 9: IEEE 802.1h is the recommended method for bridging

Motion by Michael Rothenberg/Naftali Chayat

Protest from David Bagby: Motion out of order as not a part of the charter of 802.11

Vic Hays ruled the motion out of order

an appeal by Michael Rothenberg   and second by Naftali Chayat 9-3-15 Vic's ruling on motion 9 prevailed

13. Adjournment for Subgroups at 14:50

Thursday 13 November
15:00

14. Closing Plenary
　　　14.1 Announcements
　　　　　14.1.1 Proposal for change of registration
　　　　　　　enable email registration
　　　　　　　give incentive for pre registration by raising the price on site registration to US $300.
　　　　　14.1.2 Attendance list and Errors
　　　　　　　Vic feels that errors are present in the list and when you find them please advise him.
　　　　　14.1.3 Motion fore DIS 8801-11: to mandate me to vote on and submit output of WG ballot
　　　　　　　to ISO. May cause to ask for delay of ISO approval till 1999 if we get concerns out of
　　　　　　　ballot
　　　15. Document list updates:
　　　　　No updates

　　　16. Unfinished Business

　　　17. Review of agenda:
　　　　　Vic Hayes reviews agenda.

Motion 10: Approval of agenda.
Stuart Kerry/Carl Andren   22-0-0   Motion 10 Passes

Report of Working Group "A" on Progress of 5GHz standard by Naftali Chayat

Motion 11: "Request to approve schedule document as the work of task group "A" and the criteria for comparison of proposals"
Naftali Chayat/John Caferella   16/0/5   Motion 11 passes.

Naftali reported that the agenda for the next meeting is to review additional proposal.

Report of Study Group "B" by John Fakatselis

Seven technical presentation were make for modulations schemes for higher rate 2.4 GHz LAN applications. Many key items were discussed:
1. **Interoperability with low rate PHYs**
2. **Multipath and channel Modulation**
3. **FCC**

A motion to send a copy to the FCC of each presentation received so that they can look over them and make comments passed.

Item: motion to accept the criterion for comparing modulation schemes and passed.

Item: submit topics to WLANA for Marketing data input

Motion 12: to accept the seven proposals for modulation schemes
John Fakatselis/Al Petrick   20-0-0   Motion 12 passes

Motion 13: to send seven proposals to FCC for comment for comment
John Fakatselis/Carl Andren
Discussion of motion.   Motion 13 withdrawn by proposer John Fakatselis

Motion 14: To accept criteria for judging modulation schemes for 2.4GHz High speed PHY.

John Fakatselis/Bob O'Hara   21-0-1   Motion 14 passes.

Vic expressed that 802.3 expressed concern over backward compatibility of the Higher Speed PHY. Vic asked John Fakatselis to come to ExCom and explain backward compatibility issues to the ExCom.

Maintenance Group 802.11
        Report Given By Bob O'Hara
        Maintenance group also looked at the Bridging IEEE 802.11c/draft 1
        Report
        Motion 15: To send to working group ballot after the PAR is approved.

        Victoria Poncini/Anil Sanwalka   17-0-2   Motion 15 passes

Liaison to IR Group:
        Report Given By Richard Paine. Six people worked on the update of the standard update.
        • Would like to see higher bandwidth
        • Need more participation
                • more IR vendors available
                • invite IR vendors to contribute
                • letter to invite IR vendors to next plenary. Signed by Vic

        Proposal: to send letter as drafted by group to IR vendors.

        Motion 16: To send letter 97/ 149 to vendors of IR equipment vendors asking for contributions and participate in the next plenary of 802 as proposed to include IrDA.

        Richard Paine/Oren Rosenfelt   5/7/7   Motion 16 fails.

15.5 Liaison to ETSI Bran
Motion 17: To send a letter to ETSI BRAN
Stuart Kerry/Bob O'Hara   13-0-2   Motion 17 passes.

16. Unfinished business

16.2 Next meeting
- **Will be the week of 19 January 1998 for 5 days in Everett Washington hosted by Roy Sebring of Intermec technologies**
- **mailing will be as soon as possible**

17 New Business
- **files on FTP should be full names so people can find things on the server**
- **Files should be contributed at the beginning of meeting in electronic copy.**

Motion 18:   move to hold TGa and TGb in parallel

Dave Bagby/Bob O'Hara   5-6-7   Motion 18 fails
- **Personal Area Networks Tutorial at the next Plenary of 802 sponsored by 802.11.**

18 Close at 17:15

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