## IEEE P802.11
## Wireless LANs

## Tentative Minutes for the 54th Meeting of the IEEE P802.11

### Full Working Group
### IEEE 802.11 Interim Meeting
### Grosvenor Resort, Lake Buena Vista, Florida

**11 to 15 January, 1999**

## Monday, 11 January 8:30 to 10:30 Opening Plenary IEEE 802.11

**1**  **Opening Meeting called to order by:** Vic Hayes at 8:30 opened the meeting with the agenda of 54nd session of 802.11 is in doc.:IEEE P802.11-99/1.  George Fishel, Secretary is present and ready to take the notes.

**2**  **Objectives for this meeting:**

2.1  **Comment resolution and resubmit for LB of the drafts of TGa and TGb**

2.2  **Comment resolution of WPAN PAR + 5Criteria and submission to ExCom**

2.3  **Joint meetings with ETSI BRAN on OFDM and spectrum issues**

2.4  **Teleconference with the FCC plus resulting actions**

**3**  **Roll Call:** People in the room were invited to introduce themselves by name and company.  There were 72 people in the room.

**4**  **Voting rights:**

4.1  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.

4.2  Voting at the working group level is by voting members only.  Chair may permit observers to participate in debate.

4.2.1  To become a voting member:

4.2.1.1  Participate in at least 2 out of 4 consecutive plenary meetings.  Voting rights start at third meeting.

4.2.1.2  Participation 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

4.2.1.3  All members have voting rights at task group meetings

4.2.2  Voting rights can be maintained:

4.2.2.1  By participation in 2 plenary meetings within 4 consecutive plenary meetings

4.2.2.2  One interim may be substituted for a plenary

4.2.3  Voting rights may be lost:

4.2.3.1  After failing to pay the conference fee

4.2.3.2  After missing two out of three consecutive letter ballots

4.3  Current state of member status:

4.3.1  Voting members   (86) at the beginning of this meeting

4.3.2  Aspiring voting members   (22)

4.3.3 Nearly voting members (59)

4.4 Attendance List, Registration

4.4.1 Administration: The attendance list was circulated, Richard Pain 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.

4.4.1.1 Important for administration of voting rights that the attendance book is used properly.

4.4.1.2 Sign per meeting (morning, afternoon, evening). Do not sign ahead.

4.4.1.3 Place initials. Do not cross or underline. You must attend the session after signing.

4.4.1.4 Circle the letter corresponding to the meeting you attend when signing (F=full 802.11, P=PHY, M=MAC group).

**5 Registration:** The shared meeting fee to attend this meeting is $135 US. This fee will be added by the hotel bill, if you are staying in this hotel, to cover the cost of coffee breaks, equipment and meeting rooms for the week.. If you are not staying at this hotel please pay the fee at the front desk. You must pay the fee even if you only attend 1/2 hour of any meeting. Failure to pay will cause your name to be added to the deadbeat list. You will lose your voting rights until the fee is paid.

**6 Check E-mail addresses in the book:**

6.1 Some addresses have been struck, or have a $-sign added to the right - those received complaints from the reflector

6.2 Please strike your e-mail address if you do not use it. Mark bulk e-mail with YES if your email server allows long email files and you want to receive meeting documentation in this manner.

**7 Logistics:** Electronic distribution is the method of making documents available four paper copies will be made available for those without computers.

7.1 Rudolf will manage Copying and collection of files. Karen Halfords assists in arranging documents. Rudolf has files on Flash PCMCIA card. Before a submission is presented, a document number must be assigned by Harry and a file copy on diskette in Office 95(Word 6.0, Power Point 4.0 or Excel 95) submitted using the 802.11 templates for record and distribution.

7.2 Document distribution: The primary dissemination of documentation is via electronic file distribution. However three (3) mediums will be used. They are: a) 802.11 network b) flash, memory card, c) paper copy

7.3 All files must use the IEEE802.11 templates for word documents and PowerPoint. Vic Hayes updated the template for PowerPoint files.

7.4 Coffee breaks at 10 AM and 3 PM. Noon to 1:00 PM lunch, printing is available in the hotel 802.11 office.

**8 IEEE Patent Policy** Vic Hayes, 802.11 chair explained the IEEE Patent Policy as per Clause 5 of the IEEE Standards Bylaws 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 patent holders submit the requested statement.

**9 Individual Representation:** All attendees are representing themselves as individuals and not companies and/or any special organization.

**10 Anti-Trust Laws** Discussion of price is disallowed in 802.11 sessions due to the threat of price fixing. Price fixing discussions are governed by Anti-Trust Laws and are illegal.

**11 Other announcements**

11.1 Volunteers needed for the preparation of the mailing on Thursday evening. Several people volunteered. Cherry Tom and Steven Anudren.

11.2 Sponsor ballot for 802.11 a and b invitation to ballot for those that are interested. You must be a member of IEEE or the Computer Society to participate in this ballot.

**12 Recognition**: No input at this time

**13 Approval of the minutes of previous meetings:**

13.1 Minutes of the Albuquerque meeting will be carried until Wednesday. Minutes available on the flash card, and the server.

13.2 Point of order raised from the floor to determine if a quorum is present.

> **MOTION #99/54 P01 : To rescind the ruling of the 802.11 chair that "the extension to the high rate HR/DSS/FH PHY is not a second PHY and the session was not out of order" at the November 1998meeting. Motion made by: Bob O'Hara  Seconded by: Annil Sanwalka.**

> **Motion #99/54 P02:**. **To ammend motion by adding the following line to the end:  "and therefor opens the subject for further study" Motion made by: John Fakatis Seconded by: Tom Siep**

**No discussion on the motion.**
**Motion on the floor to vote.**
**Motion P02 is carried 47-0-0.**

> **MOTION #99/54 P03 : To rescind the ruling of the 802.11 chair that "the extension to the high rate HR/DSS/FH PHY is not a second PHY and the session was not out of order" at the November 1998 meeting and therefor opens the subject for further study. Motion made by: Bob O'Hara. Motion seconded by: Annil Sanwalka.**

**Discussion on the ammended motion followed.**
**Motion 3# on the floor to vote.**
**Motion  P03 passes  41-7-0**

13.3 **Report on sponsor ballot by Vic Hayse**

13.4 **Report on letter ballot 16 (2)**

- Draft 802.11a approved by 54/19/5 or 73 %
- Draft 802.11b recirc. approved by 58/17/3 or 77 %
  - needs to be reviewed with original vote
- WPAN PAR and 5 C approved by 60/14/4 or 81 %
- Comment files are respectively 99/16, 17 and 18

13.5 **Report of the Thursday ExCom meeting Vic Hayse**

13.6 Financial report of the Waltham meeting not available.

13.7 Report of the RFID meetings in the CEPT

13.7.1 In the CEPT area, Spread Spectrum devices are limited to 100 mW EIRP

13.7.2 Primary users are Electronic News Gathering (ENG) and Fixed Services

13.7.3 ENG is an analogue system

13.7.4 both have awfully low receiver levels

13.7.5 100 mW as already a burden

13.8 Report of the RFID meetings in the CEPT (2)

13.8.1 RFID devices have a request for being permitted 500 mW EIRP using Spread Spectrum

13.8.2 Increases about 3 dB per meeting

13.8.3 Latest report showed 5 W (10 W) EIRP

13.8.4   Need it for power transfer to battery-less tags

13.8.5   Will cause interference to our devices

13.9   3.5 Report of the RFID meetings in the CEPT (3)

13.9.1   Lucent Technologies and Telxon are defending our case.

13.9.2   Agreement reached about interference model

13.9.3   120 dB pathloss over 60 meter was original proposal

13.9.4   Primary users might be our rescue

13.9.5   Still looking for more supporters

13.10   **Review of document list**

13.11   **Adoption of agenda**

> **Motion #99/54 P04 To adopt the agenda as presented Motion made made by Tom Siep  Seconded by: Stan Reible**

**Discussion on motion**

**Motion #99/54 P04 to Floor For vote**

**Agenda approved  47-0-0**

13.12   **Unfinished business**

13.12.1

> **Motion #99/54 P05: that an ad hoc working group be established during this interim meeting.  This group shall consist of interested volunteers.  It shall:**
> 1.   **Review the proposed limit on in-band emissions for RF lighting devices operating in the 2.45 GHz ISM band.  It will either recommend that IEEE 802.11 support this limit, or it shall propose an alternative.**
> 2.   **It shall draft a letter to the Secretary of the FCC reiterating our position in this letter (see doc. IEEE 802.11 - 98/390r2)**
> 3.   **It shall identify delegates by name (preferably at least two) who are willing to meet with the FCC to discuss this matter and who are authorised to negotiate a limit on in-band emissions on behalf of IEEE 802.11**
> 4.   **The ad hoc group shall report findings and recommendations at the next plenary session (Thursday?).**
> **Made by Don Johnson Seconded by: Harry Worstel**

**Discussion on motion**

**Motion to floor for vote**

**Motion #99/54 P05 approved  45-0-1**

**The group will be Al Petrick, George Fishel and others.**

4      **Adjourned at 10:30 until Wednesday meeting.**

## Wednesday, 13 January 13:30 to 15:30 Plenary IEEE 802.11

5      **Vic Hayes opened the meeting at 13:35 with an introduction of members present. A total of 53 persons present.**

**6** **Review of documents list and assignment of numbers.**

**7** Agenda Update

7.1 Old Business

7.1.1 Study Group WPAN

7.1.2 TGa

7.1.3 TGb

7.1.4 Microwave lighting

7.2 New Business

**Motion #99/54 P06 to approve the agenda as modified. Proposed by: Al Petric and seconded by: Harry Worstell**

**Motion to floor for vote**

**Motion#99/54 P06 carries 41-0-2**

**8** Report from MMAC-PC on the planed activities for the Japan meeting

8.1 An exhibition of wireless devices will be a part of the Japan show.

8.2 Anyone wishing to participate is invited to do so.

8.3 The press will be invited to document the Japan meeting

**9** Printer connected to server please do not disconnect.

**10** Harris will sponsor a social tonight from 7:00 to 10:00 with a cash bar.

**11** Old business

11.1 WPAN Report by Bob Heile

11.1.1 Summary of report

11.1.2 Summary of comment review

11.1.3 Next steps

11.1.3.1 Motion in SG: Submit the document for re-circulation to letter ballot (WG) to submit the document UMENTS -98/16r5 and 98/162r8 to ExCom. Result in the WG: approved by Unanimous consent.

11.1.4 The question was posed as to how many of the people the voted on the WG letter ballot would change their votes from No the Yes and 1 person raised his hand. This person must send a letter of retraction to Vic.

**Motion # 99/54 P07 Motion in SG: Submit the document for re-circulation to letter ballot to WG to submit the document UMENTS -98/16r4 and 98/162r7 to ExCom. Motion made by: Bob Heile and seconded by:Ian Gifford**

**Motion to the fioor for vote**

**Motion #99/54 P07 is approved 28-0-4**

11.2 Report by Naftali Chayat on TGa working group activity.

**Motion #99/54 P08 To approve the motion that 802.11 a/ BRAN PHY's are based on 52 sub-carriers and 4 will be dedicated pilot sub-carriers. Motion made by: Naftali Chayat and seconded by Steve Gray.**

**Discussion on motion followed**

**Motion to the floor for vote**

**Motion #99/54 P08 passes: 39-1-4.**

11.3    Report by John Fakatselis on TGb working group activity

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**Motion #99/54 P09 The IEEE 802.11 support a limit on the RF Lighting Emissions in the 2.4 GHZ ISM band of 20mV/meter peak envelope field strength at 3 meters. Motion made by: Jim Zyren and seconded by: Harry Worstell**

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**Discussion on the motion**

**Motion to the floor for vote**

**Motion #99/54 P09 passes with 45-0-1**

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**Motion #99/54 P10 that the 802.11 appoint delegates to meet with the FCC and authorize them to negotiate this limit.  Motion made by: Jim Zyren and seconded by: Al Petrick**

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**Dicussion on motion**

**Motion to the floor for vote**

**Motion #99/54 P10 passes  49-0-1**

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**Motion #99/54 P11:  to send a letter (document 99/027 ) be sent to the secretary of the FCC  Motion made by: Jim Zyren and seconded by: Michael Fischer**

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**Dicussion on motion**

**Motion to the floor for vote**

**Motion #99/54 P11 passes 46-0-1**

**12  New Business**

**12.1**    Presentation by Michael Fisher Document number 99/029 Mechanism to Allow Correct Calculation of Frame Durations.

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**Motion #99/54 P12: To adopt document number 99/029 into TGa, TGb draft standards and into current 802.11 standard, Motion by Michael Fischer**

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**Discussion of motion**
**Motion #12 to floor for vote:**
**Motion Carries  35-0-2**
**13    Meeting adjourned for the day at 15:30 until Friday Closing Plenary**.

## Friday, 13 January 13:30 to 15:30  Closing Plenary IEEE 802.11

**13    Vic Hayes opened the meeting at 13:45.**

**14    Report on meeting arrangements at the Mukuhara Hotel for the Japan meeting of 802.11 approximately 29 persons indicated they would attend the meeting.**

**15    At the last three meetings paper copies of documents were offered and not taken. It was determined that paper copies were not needed and will not be available in the future meetings.**

**16    At the next meeting Office97 will be the standard for all documents.**

**17    Agenda**

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**Motion #99/54P13  Motion to approve amended agenda Motion by: Stuart Kerry  Seconded by: Allen Heberling.**

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Motion #99/54P13   carries 33-0-0

18    TGb report by John Fakatselis

19    **Motion #99/54P14: Move to issue the document 802.11b/D2.last to be created by the editor from the material supplied by the comment resolutions approved by TGb to WG re-circulation ballot. Motion by John Fakatselis and seconded by Dean Kawaguchi**

**Motion #99/54P14 carries 37-0-1**

20    **WPAN Report by Tom Siep**

20.1    **Had a PAR that was approved and by ExCom had a letter to be presented to ExCom**

**Motion #99/54P15: Motion that the working group forward a suggestion letter on changes to the PAR to ExCom Motion by: Tom Siep  Seconded by Allen Heberling**

**Discussion followed.**

**Motion: Call the question on Motion #99/54P15.  Motion by: JohnFakatselis Seconded by: Michael Fischer**

**Question Called 21-5-4**
**Motion #99/54P15 to floor for vote**
**Motion #99/54P15  passes 14-9-7**
21    **Recap of Output Documents by Vic**
21.1    **Output documents**
21.1.1    WPAN PAR-r8 + 5 Criteria-r5
21.1.2    WPAN PAR-r7 + 5 Criteria-r4
21.1.3    WPAN Ballot resolutions
21.1.4    SG Recommendation
21.1.5    Draft letter for FCC
21.2    **Output documents 2**
21.2.1    TGa draft/D2.last plus /D3.0
21.2.2    TGa Ballot Resolutions
21.2.3    TGb draft/D2.last plus /D3.0
21.2.4    TGb Ballot Resolutions
**21.2.5**    20 day WG letter ballot for TGa, TGb, WPAN

22    **Report from TGa by Naftali Chayat**

**Motion # 99/54P16** to forward the 802.11a draft 2.1, after incorporation of the text changes arising from the comments resolution process and decisions taken during January 99 meeting, to a 25 day WG Re-circulation Ballot. **Motion by Naftali Chayat: Seconded by: John Fakatselis**

**Motion#99/54P16 Passes 28-0-0**

**Motion # 99/54P17:  to issue liaison letter to MMAC-PC Wless Ethernet group  appreciating their willingness to align their standard with 802.11a and ask to align their draft standard with the draft 2.1 version of the .11a standard Naftali Chayat/Ohsawa**

**Motion # 99/54P17  passes 26-0-1**

**Motion #99/54P18: to issue a liaison letter to BRAN appreciating the cooperation during the meeting and asking then to consider 802.11a preamble structure as one of the candidates for a BRAN H/2 preamble Naftali Tak**

**Motion #99/54P18 Passes 26-0-0**

**Motion #99/54P19: That 802.11 joins the submission of a joint statement with ETSI/BRAN and MMAC-PC to the ITU-R (doc. 99/042), supporting lowering restrictions to RLANs in the 5.15-5.25 GHz band, and to**

> empower the 802.11 chair to revise the final version of this joint submission. Motion made by: Masahiro and Seconded by: Takanashi

**Motion #99/54P19 Passes 26-0-0**

> **Motion #99/54P20: That 802.11 issue a support letter to the CEPT committee, supporting the BRAN document as shown in 99/40, while stressing the importance of the increased frequency allocations and lowered restrictions to the 802.11a WLANs. Motion made by: Naftali Chayat and Seconded by: Dean Kawaguchi.**

**Motion #99/54P20 Passes 24-0-0**

**24    Next meeting objectives**

**25    New Business**

25.1    **Sign the book for Al**

25.2    **Return all NIC cards to owners.**

**26    Next Meeting**

26.1    **Objectives for next 802.11 meeting**

26.1.1    To resolve comments on ballots of draft 802.11a and draft 802.11b

26.1.2    To submit the drafts to Sponsor Ballot

26.1.3    To submit WPAN's PAR and 5 Criteria to ExCom for submission to NesCom

26.1.4    ?

26.2    **Future meeting locations**

26.2.1    March 8-12 - Hyatt Regency, Town Lake, Austin, TX, Plenary

26.2.2    May 10-14 - Shinagawa? Prince Hotel, Tokyo, Japan, Interim (NTT, Clarion, NEC)

## Meeting adjourned at 15:30

1 **Future Meeting Schedule**

- *1999*

  - *March 8-12 - Hyatt Regency, Town Lake, Austin, TX, Plenary*

  - *May 3-7 - Makuhari Prince Hotel, Tokyo, Japan, Interim (NTT, Clarion, NEC)*

  - *July 5-9 - Queen Elizabeth, Montreal, PQ*

  - *Sept 13-17 - Hilton, Santa Rosa, CA, Interim (Alantro)*

  - *November 8-12 - Hyatt Regency, Kauai, Koloa, HI, Plenary*

- *2000*

  - *January TBD - Israel?, Interim (Breezecom)*

  - *March 6-10 - Hyatt Regency, Albuquerque, NM, Plenary*

  - *July 10-14 - Hyatt Regency La Jolla, San Diego, CA, Plenary*

  - *November 6-10 - Hyatt Regency, Tampa, FL*

- *2001*

# *Attendance list for*   Lake Buena Vista

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