

Tentative Minutes of the IEEE P802.11

Full Working Group Interim Meeting Utrecht, Netherlands

4 to 8 May 1998

Monday, 4 May 1998

1.0 Opening Meeting called to order by Vic Hayes at 8:30, Agenda of 46th session of 802.11 is in doc.:IEEE P802.11 11-98/153r1. Al Petrick acting, secretary for George Fishel ¹⁾ is present and ready to take the notes.

Objectives for this meeting, all groups

1.1 Selection of technology for TGa and TGb

1.2 Work in study group for WPAN

Proposed changes in the agenda, made by Vic Hayes, 802.11 Chair

1.3 Folded TGa agenda in

1.4 Change Monday evening from TGb to TGa

1.5 Change Tuesday evening from TGa to social

1.6 Study group date from 20-21 of May to 19-21

1.7 Spare meeting time for sponsor material on Thursday

1.8 Establish "teller committee" on Monday

1.1 Roll Call: People in the room were invited to introduce themselves. There were 61 people in the room.

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.

1.2.2 Voting at the working group level is by voting members only. Chair may permit observers to participate in debate. To become a voting member:

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

1.2.2.2 Participation in at least 75% in meetings, in the room

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- One interim may be exchanged for a plenary
- Voting members will get a token to be used at votes

1.2.2.3 All members have voting rights at task group meetings

1.2.3 Voting rights can be maintained:

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

1.2.3.2 One interim may be substituted for a plenary

1.2.4 Voting rights may be lost:

1.2.4.1 After failing to pay the conference fee

- After missing two out of three consecutive letter ballots

1.2.5 Current state of member status:

1.2.5.1 Voting members (76) total membership

1.2.5.2 Voting members (58) at this session

1.2.5.2 Aspiring voting members (35)

1.2.5.3 Nearly voting members (24)

1.3 Attendance List, Registration

1.3.1 Administration: The attendance list was circulated, Clemens Ruppel 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.

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

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

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

1.3.2 Registration: You pay full plenary costs if you attend just ½ hour of any meetings for the week.

1.3.3 Check E-mail addresses in the book:

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

1.3.3.2 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. Vic Hayes plans to remove the bulk Email.

1.4 Logistics: Paper document distribution is done using pigeon holes. Paper distribution is only for those members not having a PC. You will find your copies and messages in the referenced location in the expanding file folders in the slot *in front of* your name. Electronic distribution is also available.

1.4.1 Conference fee to be paid through registration at the hotel front desk. The cost is added to the hotel bill.

1.4.2 Copying and collection of files is managed by Stuart Kerry. Al Petrick assists in pigeonhole stuffing. Stuart is also in charge of document numbers. Before a submission is presented, a document number must be assigned by Stuart and a file copy on diskette in Office 95 submitted using the 802.11 templates for record and distribution. Each submitter must provide fifteen (15) paper copies for pigeon hole distribution. There were eleven people without computers at this meeting.

1.4.3 Coffee breaks at 10 AM and 3 PM. Noon to 1:00 PM lunch, printing is available in the conference room.

1.4.4 Document distribution: The primary dissemination of documentation is electronic file distribution. However three (3) mediums will be used. They are: a) 802.11 network b) flash memory card, c) diskettes. Fifteen (15) of the attendees needed paper copies of the submissions.

1.4.5 Sign in for a slot, remember the letter and number (this is for members not having electronic access. 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

1.6.1 Vic Hayes-Lucent will host a social event Tuesday evening and Dean Kawaguchi will close TGa at 5PM promptly. A straw poll for the social event attendance was approx. 70 people.

1.6.2 Dean Kawaguchi is requesting volunteers for the TGa matrix. John Fakatselis also needs volunteers for TGb compliance matrix.

2. Approval of the minutes of previous meetings

2.1 Minutes of the Irvine, California meeting approved 98/121. No comments on the minutes. Voters for a quorum (42) including voters and nearly voters. Problems with the minutes, make the necessary changes in the nomination sections. Al Petrick made the necessary changes specifically the nominees for office. A revised copy will be posted on the server.

MOTION 1: To approve the minutes as amended. Bob O'Hara Moves to approve minutes, Seconded by Anil Sanwalka, No discussion: motion passes 40/0/2.

2.2 There were no matters rising from the minutes.

3. Reports

3.1 Excom update: Vic Hayes. Approval to send D4 of 802.11 to sponsor ballot and conditional approval to send 802.11c to sponsor ballot. A study group was approved for PAN and as well as a press release for PAN.

3.2 TGrev needs to review the comments by Thursday of this week. No questions on the sponsor ballots. There was some confusion on the sponsor letter ballots forms. All of the response voters were YES, some with comments, some with questions.

3.3 Study group meeting: Bob Heile gave an update of the first PAN study group meeting. The group discussed the requirements for PAR requirements. Jim Carlo, 802.0 chair attended and provided assistance to the group. The meeting minutes are contained in document 98/159. The next interim meeting is in Dallas Texas May 20-21. For more information on PAN refer to the web site at URL: Grouper.IEEE.org/groups/802/11, which also has a link to the WPAN area. A straw poll of 6 people are planning to attend the meeting this week in Utrecht.

3.4 CEPT project update by Vic Hayes. The RFID and Airlan devices are to be tested by Lucent, Netherlands. The testing consist of measuring interface data between the devices. The purpose of the test is to determine if RFID devices should be allowed to operate in the frequency band. Some discussion: Sensormatic was one of the companies supporting RFID. CEPT is open for comments at this time. The CEPT forms are on the IEEE 802.11 web site.

4. Review of Contributions: Stuart Kerry updated the list of document submissions 98/160 thru 98/196.

5. Adoption of Agenda

Vic Hayes reviewed the agenda and proposed additions to the published agenda document 11-98/153-r1.

MOTION 2: To approve adoption of agenda as amended. Moved by Anil Sanwalka, Seconded by Johnny Zweig, No discussion: Motion 2 passes 39/0/0

6. Unfinished Business

6.1 Maintenance: update by Bob O'Hara

6.2 TGa - update given by Dean Kawaguchi

6.3 TGb - update given by John Fakatselis

- 6.4 TGc- PAN study group given by Bob Heile
- 6.5 TGrev - update given by Bob O'Hara (only editorial issues at this point)

- 7 **New Business**
 - 7.1 Appointment of committee tellers, discussion by Vic Hayes

MOTION 3: To appoint Al Petrick, Stuart Kerry and Vic Hayes as the teller committee for this session. Moved by Dean Kawaguchi, Seconded by Roy Sebring. Some discussion: Motion 3 passes: 44/0/0

- 8 **Adjourn for Subgroups**

Wednesday 6, May 1998

Plenary 13:00PM

- 9. **Opening: Announcements by the Chair:**
 - 9.1 Roll Call, No roll call
 - 9.2 Document list update; No update
 - 9.3 Agenda update: Reviewed the outline of the agenda 98/153-r1, Changes include 1)replace for Wednesday afternoon what is given for TGa to TGb, 2) change Thursday morning from TGb into Plenary and TGa after adjournment of Plenary 3) Delete all Study Group Meetings for Thursday as they have accomplished their business 4) SG meeting date from 20-21 of May to 19-21 5) Spare meeting time for Sponsor material on Thursday " Established teller committee" on Monday.

MOTION 4: To approve the agenda as amended. Moved by Anil Sanwalka, Seconded by Dean Kawaguchi. Discussion on Motion 4. Question called by Bob O'Hara, Seconded by Simon Black Called question passes: 45/4/5

MOTION 4: To approve the agenda as amended. Moved by Anil Sanwalka, No discussion permitted, Motion passes 50/0/2.

- 9.4 Announcements
 - 9.4.1 Anti-trust laws reviewed by Vic Hayes stressing that product pricing should not be discussion at IEEE 802 meetings, and intellectual property pricing as well.
 - 9.4.2 reminder that each individual is representing himself and not a company.
 - 9.4.3 Stuart Kerry presented Vic Hayes with an autographed book from the attending members, for remembrance of this weeks meeting.

9.4.1 Moved to adjourn into study groups, moved by Simon Black, Seconded by Keith Admunsun; delay Plenary to maximize TG schedule meetings. Approved by voice vote.

Thursday 7, May 1998

Plenary 13:00PM

- 9. **Opening: Announcements by the Chair: Vic Hayes clarified this was a delayed plenary :**
 - 9.1 Roll Call, each individual was asked to state their name, company and location. There were 67 people at the opening of this session.
 - 9.2 Document list update: Stuart Kerry added documents 98/229 and 98/231. Some discussion on document numbers for TGa
 - 9.3 Agenda Update

MOTION 5: To approve agenda as shown in document 98/153-r1. Moved by Bob O'Hara, Seconded by Anil Sanwalka, No discussion, Motion 5 passes 44/0/1.

- 9.4** Announcements: 1) The Chair gave a statement on Anti-trust laws. See document 98/153-r1. 2) The chair clarified that each member during the attendance of the meeting should represent themselves as an individual and not as a company.
- 10. Old Business**
- 10.1 Report Study Group** - update by Bob Heile, summary report in document 98/222 and 98/163
- 10.2 Report Maintenance Group** - update by Bob O'Hara. The ballot was not closed and the group needed some more time before a report could be given.
- 10.3 Report from TGc** - update by Victoria Poncini. The group needed some more time to come to a conclusion.
- 10.4 Report from TGa** - update by Dean Kawaguchi, report of ballot documents.

MOTION 6: To adopt OFDM proposal by Lucent Technologies. Moved by Dean Kawaguchi, Seconded by Bruce Tuch. General discussion on Motion 6.

Motion to postpone, moved by Jim Zyren, motion not allowed ruled by Chair, removed postpone motion by Jim Zyren. Jim Zyren yields the floor to Dean Kawaguchi for discussion.

Note by Chair: the Chair does not remember having ruled a motion to postpone out of order: he would have been appealed immediately. Chair requests members to report the actual motion made by Jim.

Dean Kawaguchi moves to accept motion 6: as stated:

MOTION 6: To adopt OFDM proposal by Lucent Technologies, Moved by Dean Kawaguchi, Seconded by Bruce Tuch. No discussion Motion fails: 28/16/6 (this is a technical motion that needs 75 %, this is only 65 %)

General discussion by the plenary: Chair recommends that TGa goes back to the working group to gain consensus and resolve issues. Dean Kawaguchi recommended that Naftali Chayat accepts TGa chair. Naftali Chayat declines because TGa has a BreezeCom proposal under consideration. Dean Kawaguchi accepts position as TGa chair.

10.5 Report from TGb - updated by John Fakatselis ref to document 98/219

MOTION 7: To change the voting process. Moved by Jeff Abramowitz., No second, Bob O'Hara declared this motion was out of order , because only TGb reporting was being conducted on the floor. This was ruled by the Chair, Vic Hayes, that this subject is covered under agenda item 11 New Business.

11. NEW BUSINESS

To help the discussion, the chair produced the motion from the January interim meeting that adopted the TGb voting:

“MOTION 10: To approve 89/54 as the schedule and modulation selection process for 2.4GHz higher rate PHY. Moved by John Fakatselis, Seconded by Jan Boer, No Discussion. Motion 10 passes 18/0/1”

(Note: the minutes from January have an error the correct document number is 98/54 not 89/54.)

Greg, Ennis, - re-clarification of Motion 10 89/54 as the schedule and modulation selection process for the 2.4GHz higher rate.

MOTION 8: To change the voting process of TGb defined in step 14 of doc 98/54 to change a secret vote to standard technical vote and to change the requirement for >50% to be 75% or greater the 75% in order to be brought to the Plenary. Moved by Jeff Abramowitz, Seconded by Naftali Chayat.

General discussion on Motion 8.

MOTION 8: Friendly amendment proposed by Bob O'Hara "To begin the process from the beginning of the week". Not accepted as friendly.

Motion to amend MOTION 8 to (see the italic part):

MOTION 8: To change the voting process of TGb defined in step 14 of doc 98/54 to change a secret vote to standard technical vote and to change the requirement for >50% to be 75% or greater the 75% in order to be brought to the Plenary *and to the begin the process from the beginning of the week.* Moved by Bob O'Hara, Seconded by Carl Andren.

General discussion on the motion to amend.

Question Called, by John Fakatselis, Seconded by Anil Sanwalka, as listed below:

2 opposing, Question was called, the motion to amend passes with 24/19/6

MOTION 8 now reads: To change the voting process of TGb defined in step 14 of doc 98/54 to change a secret vote to standard technical vote and to change the requirement for >50% to be 75% or greater the 75% in order to be brought to the Plenary and to begin the process from the beginning of the week. Moved by Bob O'Hara, Seconded by Carl Andren.

General discussion on MOTION 8

Motion to amend MOTION 8 Moved by Naftali Chayat, Seconded by Gene Miller "To halt the current TGb voting process, to allow the presentation of merged proposals and restart the voting process of TGb." Remove text "and to begin the process from the beginning of the week."

The motion reads after amendment:

MOTION 8 To halt the current TGb voting process, to allow the presentation of merged proposals and to restart the voting process of TGb. To change the voting process of TGb defined in step 14 of doc 98/54 to change a secret vote to standard technical vote and to change the requirement for >50% to be 75% or greater than 75% in order to be brought to the Plenary.

General discussion on motion to amend Motion 8.

Question called by John Fakatselis, Seconded by Bob O'Hara as shown below, the motion to amend passes with 25/17/10

MOTION 8 now reads: To halt the current TGb voting process, to allow the presentation of merged proposals and to restart the voting process of TGb. To change the voting process of TGb defined in step 14 of doc 98/54 to change a secret vote to standard technical vote and to change the requirement for >50% to be 75% or greater than 75% in order to be brought to the Plenary.

11.1 Adjourn for Lunch, proposed by Chair, Vic Hayes

11.2 Call to order by Chair Vic Hayes continuation of Plenary

MOTION 8 is still on the floor: To halt the current TGb voting process, to allow the presentation of merged proposals and to restart the voting process of TGb. To change the voting process of TGb defined in step 14 of doc 98/54 to change a secret vote to standard technical vote and to change the requirement for >50% to be 75% or greater than 75% in order to be brought to the Plenary.

Point of information raised on Motion 8 as amended: how would the Cahir interpret which proposals would qualify?

Clarification of Motion 8 by the Chair Vic Hayes. " 5 proposals plus the merged ones, based on at least 2, of course proposer can withdraw"

No discussion, Question called fails 23/18/4

MOTION 9: Division of the question. Moved by Mathew Shoemake, Point of order, by Chair, division of question made by a non-voter, Mathew Shoemake, yields floor to Chris Heegard.

MOTION 9: Division of the question moved by Chris Heegard Seconded by Jim Baker.

Motion 8 after division into 2 parts:

2) To halt the current TGB voting process, to allow the presentation of merged proposals and to restart the voting process of TGB.

1) To change the voting process of TGB defined in step 14 of doc 98/54 to change a secret vote to standard technical vote and to change the requirement for >50% to be 75% or greater the 75 % in order to be brought to the Plenary.

MOTION 8: part 1 To change the voting process of TGB defined in step 14 of doc 98/54 to change a secret vote to standard technical vote and to change the requirement for >50% to be 75% or greater the 75% in order to be brought to the Plenary.

Question called, by Bob O'Hara, Seconded by John Fakatselis

Question called passes 45/6/1

MOTION 8 part 1 To change the voting process of TGB defined in step 14 of doc 98/54 to change a secret vote to standard technical vote and to change the requirement for >50% to be 75% or greater the 75% in order to be brought to the Plenary.

No discussion Motion 8 part 1 passes 47/5/2

MOTION 8 Part 2 To halt the current TGB voting process, to allow the presentation of merged proposals and to restart the voting process of TGB.

MOTION 10: Amendment on Motion 8 part 2: by Wim Diepstraten Add text "to discard the result of the voting this week." And remove text "restart the voting process of TGB." And add text: "instruct TGB to find a consensus proposal." Seconded by Ad Kamerman

MOTION 8 part 2: As amended by Wim Diepstraten would read:

2) To halt the current TGB voting process, to discard the result of the voting this week, to allow the presentation of merged proposals and to instruct TGB to find a consensus proposal.

Clarification of Motion 8 part 2 as amended, by the chair. " 5 proposals plus X combinations of the 5 proposals" "Micrilor or ; mergers of Micrilor and other of the 4 other proposals or combination of the other 4 proposals"

Discussion on Motion 10

Question Called, by Wim Diepstraten, Seconded by John Fakatselis

Question Called, fails 27/14/11

Discussion on Motion 10

Question called, by Johnny Zweig, Seconded by Bob O'Hara

Question called to amend, fails 18/29/2

Discussion on Motion 10

Question called, by Kent Rollins, No objection to calling the question, motion 10 passes 41/10/5

Discussion on Motion 8 part 2 as amended.

Question called by Keith Amundsen, Seconded by Bruce Tuch. No objection to question called,

MOTION 8 part 2: To halt the current TGb voting process, to discard the result of the voting this week, to allow the presentation of merged proposals and to instruct TGb to find a consensus proposal.
motion 8 part 2 passes 41/11/2

13. Adjourn for Subgroups, moved by Naftali Chayat, Seconded by Bruce Tuch, approved by voice-vote.

Friday 8, May 1998

**Plenary
13:00PM**

14. Opening

14.1 Announcements:

14.1.1 Chair reviewed master attendance list for corrections

14.1.2 Last call by Chair for free cookies

14.1.3 WLAN update by Darwin Engwer

14.2 Document list update by Stuart Kerry, Lucent technologies removes submission documents 98/181 and 98/192, PAN study group documents are 98/232 and 98/233. Comment file for TGa is document 98/234.

14.3 Agenda adjustments

MOTION 12: To approve the amended agenda, moved by Jim Zyren, Seconded by Johnny Zwieg
No discussion, Motion 12 passes 48/0/0

15. Reports from study group

15.0.1 Study group PAN report by Stuart Kerry for Ian Gifford, see document 98/222

MOTION 13: To request the 802.11 chair to acquire ExCom approval to send the letter of the SG (98/233) and to send the approved letter.
No discussion, Motion 13 passes 45/0/4

15.0.2 TGc report by Victoria Poncini, see document 98/220

MOTION 14: To empower the chairs of TGc and 802.11 to process the last comments to come in, pending closure of the ballot with the persons that attended the TGc meeting this week (and anyone else that want to participate) and to submit the draft to the next step in the process (re-circulation). Moved by Victoria Poncini, Seconded by John Fakatselis.
No discussion, Motion 14 passes 46/0/2

15.0.3 TGrev report by Bob O'Hara, see document 98/221

MOTION 15: To empower the chair of TGrev and 802.11 to process the last comments to come in pending closure of the ballot with the persons that attended the TGrev meeting this week (and anyone else that wants to participate) and to submit the draft to the next step in the process (re-circulation), moved by Bob O'Hara, Seconded by Simon Black.
No discussion, Motion 15 passes 43/0/2

MOTION 16: To empower the Chair of 802.11 to bring the D5.1 or its successor to the ISO committee, moved by Bob O'Hara, Seconded by Roy Sebring No discussion, Motion 16 passes 47/0/0

15.1 TGa report by Dean Kawaguchi see document 98/218

MOTION 17: That if TGa has to re-open their selection process that they be directed to use non-secret voting, and achieve a 75% or greater acceptance before forwarding to 802.11, moved by Keith Amundsen, Seconded by Anil Sanwalka. No discussion, Motion 17 passes 43/0/4

15.2 TGb report by John Fakatselis see document 98/219

16. Unfinished business

16.1 Output documents

SG liaison letter 98/233

802.11 D5.1 +

802.11c D6 +

Both comment resolution reports

16.2 Next meeting

Objectives for next meeting

Continue the consensus process for TGa and TGb

Continue the outstanding sponsor ballot

Further work in the SG PAN

Mailing dates as soon as possible, weekly uploads, diskette format for those in need.

July 5th interim meeting starts Sunday 4PM, prior to Monday morning

MOTION 18: To remove the Sunday part of the Interim meeting in July, moved by Dean Kawaguchi, Seconded by Roy Sebring. No discussion, Motion 18 passes 37/0/5

16.3 Future Meetings.

16.3.1 Raytheon to host September 98, Waltham, MASS

16.3.2 Harris to host January 99 in Orlando Florida, (strawpoll: 38 favor)

16.3.3 BreezeCom to host May 99 in Israel (strawpoll 32 favor)

16.3.4 Clarion to host May 99 in Japan (strawpoll 38 favor)

17 Closure

17.1 Special thanks to Vic Hayes and Bruce Tuch of Lucent for hosting the meeting in Utrecht., declared by Stuart Kerry, Vice Chair.

Attendance list for minutes Utrecht, NL

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Meeting Plan

1998

- July 6-10 - Hyatt Regency La Jolla, San Diego, CA, Plenary
- Sept 14-18 - Waltham, MA, tentative, Interim (Raytheon)
- November 9-13 - Hyatt Regency, Albuquerque, NM, Plenary

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- Jan TBD - Orlando area, FL, Interim (Harris)
- March 8-12 - Hyatt Regency, Town Lake, Austin, TX, Plenary
- May TBD - Japan?, Interim (Clarion)
- July 5-9 - Queen Elizabeth, Montreal, PQ
- Sept TBD - Israel?, Interim (BreezeCom)
- November 8-12 - Hyatt Regency Kauai, Koloa, HI