
**IEEE P802.11
Wireless LANs**

Tentative Minutes of the IEEE P802.11 Full Working Group**September 18 – 22, 2000****Radisson Resort & Spa, Scottsdale, AZ****Opening Session: Monday, September 18, 2000****1.1. Introduction**

Meeting called to order by Stuart Kerry at 0800 hrs. Agenda of 63rd session of 802.11 is in doc.: IEEE P802.11-00/256r2.

1.2. Roll Call

89 people in the room introduced themselves

1.3. Objectives for this meeting:

- TGb
- TGd
- TGe
- TGf
- HRB SG
- Regulatory Ad Hoc
- Marketing Ad Hoc
- WG Chairs Ad Hoc
- Other Ad Hoc

1.4. Review of 802.11 Organization**1.5. Review of Agenda**

Change of Friday Morning agenda. Thursday Evening will be TGe, and Friday morning is 802.11 WG at 08:00

1.6. Secretary, Document Officer, Attendance Book Officer

Tim Godfrey, Secretary
Harry Worstell, Document Officer
Al Petrick, Attendance Book Officer

1.7. Voting Rights

Stuart Kerry summarized the regulations regarding voting rights.

Participation in debates, moving and seconding, is only permitted by voting members, in all 802.11 meetings (at all levels of Plenary and Working Group).

- Chairs may permit observers to participate in debate
- In study groups all attendees have voting rights.

To become a voting member and to maintain voting member status:

- Participate in at least 2 out of 4 consecutive plenary meetings. An initial non-voting member obtains voting rights at the third meeting.

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- One interim may be substituted for a plenary
- Participation in at least 75% of each meeting, in the room
- Voting members will get a token to be used at votes

All members have voting rights at task group meetings

Voting rights may be lost:

- After failing to pay the conference fee
- After missing two out of three consecutive letter ballots

Current member status:

- Voting members: 103 at the beginning of this meeting
- Nearly voting members: 31
- Aspiring voting members: 113
- Non voters (over past 8 years) 424
- Quorum Check – 35, not a quorum: 52 needed for Quorum.

1.8. Attendance List; Registration

- Attendance List: The attendance list has to be recorded for voting membership registration. It was circulated with Al Petrick supervising.
- Members should verify their E-mail and addresses.
- Access to private area of web site is granted with 75% participation in a meeting week.

1.9. Logistics

- (a) Coordinator – Face to Face Events
- (b) Breaks: Coffee breaks are listed in the Agenda for 1000 and 1500. There is continental breakfast free for registered attendees. Lunches from 1200-1300 (exactly these times).
- (c) Social evening Wednesday evening.
- (d) Documentation:

1.10. Documents

- Document distribution: Dissemination of documentation is via electronic file distribution controlled by Harry Worstell. Two mediums only will be used. They are 1) 802.11 network and 2) flash memory cards.
- All files must use the IEEE P802.11 templates for Word documents and PowerPoint. Stuart Kerry explained how to properly name and enter information into the documents including the document information, headers and footers. For presentations it is necessary to view header and footer, and slide master and update the date, name and document number.
- Documents must be in MS Office 97 format, not PDF.
- Inter – meeting documents must be sent directly to Harry Worstell, not only the reflector.
- Documents must be available on the network a meeting session before the agenda item is presented.

1.11. IEEE Patent Policy

Stuart Kerry, 802.11 Chair, explained the IEEE Patent Policy as per Clause 5 of the IEEE Standards Board Bylaws. He specifically asked attendees to notify the Working Group if they know about patents or patent applications that are (or may be) required to implement the standards, so the Chair can send out letters to patent holders to request the appropriate IP statements.

1.12. Individual Representation

All attendees are representing themselves as individuals and not companies and/or any special organization.

1.13. 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.

1.14. Copyrights

If you know of copyrighted or proprietary material that is in the standard as we have drafts now, please let the group know so the Chair has the opportunity to request release.

Standards Publication shall constitute a "work made for hire" as defined by the Copyright Act. IEEE owns the copyright of the standards publication.

1.15. Other Announcements

- 1.15.1. Promotion of Harry Worstell to Vice Chair from Co-Vice Chair.

1.16. Review of Agenda Changes (in doc 256r2)

- 1.16.1. From Naftali Chayat – Proposal for creation of Study Group for 2.4GHz wideband FH PHY in 2.4GHz.

- 1.16.1.1. Postpone Liaison representatives until Wednesday

1.16.2. Motion to approve Agenda Matthew Shoemake

- 1.16.2.1. Seconded David Skellern
- 1.16.2.2. No Discussion
- 1.16.2.3. Vote – passes 42:0:0

1.17. Approval of Minutes from La Jolla

- 1.17.1. Document 00/0185.
- 1.17.2. Approved by Unanimous Consent.

1.18. Reports

- 1.18.1. July 13 Excom Meeting
- 1.18.2. Report on TGb-cor
 - 1.18.2.1. Documents are on web site in final form. We need to go through a sponsor ballot round
- 1.18.3. TGd
 - 1.18.3.1. The executive committee asked for count of remaining no-votes. There were 6 no votes remaining. They have been contacted and changed their vote to approve.
 - 1.18.3.2. The 2.0 draft has been forwarded to sponsor ballot with unanimous approval.
- 1.18.4. TGe
 - 1.18.4.1. There will be work to make up lost time. A re-organization of TGe has been proposed and accepted by the chairs. There will be organizational changes in the meetings
- 1.18.5. TGf
 - 1.18.5.1. The milestone is to create the first draft of 802.11F this week.
- 1.18.6. HRB SG
 - 1.18.6.1. Agenda document 280.
 - 1.18.6.2. Letter ballot 23 (reaffirm support PAR for HRBSG) approved 70:0:0. Final approval for Task Group G will take place this Wednesday from the standards board.
 - 1.18.6.3. Series of 4 conference calls took place between meetings. Selection Procedure, Functional Requirements, and Comparison Criteria.
 - 1.18.6.4. Review of Yes with Comments vote.
 - 1.18.6.5. Formal adoption of Selection Procedure, Functional Requirements, and Comparison Criteria documents
 - 1.18.6.6. Review submissions – goal to complete all work required to allow formal presentation of proposals at the November 2000 session.
- 1.18.7. Regulatory Updates
 - 1.18.7.1. Address 99-231 issues
 - 1.18.7.2. Reply to ETSI-BRAN on 802.11a in Europe

- 1.18.7.3. Review Ultra Wideband regulations
- 1.18.8. **Marketing Ad Hoc**
 - 1.18.8.1. Continue working on presentations for Web Site for use in promoting the standard.
 - 1.18.8.2. Working with 802.15
- 1.18.9. **Review and approve agenda for 802.15 joint meeting**
 - 1.18.9.1. Wednesday at 13:00 hours.
 - 1.18.9.2. Discussion of purchase of 802.11 network equipment with surplus funds from Seattle.
 - 1.18.9.3. Reports from all 802.11 and 802.15 task groups.
 - 1.18.9.4. 802.11 There will be a 30 minute plenary following the joint meeting to take care of any needed agenda adjustments or administrative issues
 - 1.18.9.5. Motion to approve the agenda for the 802.11 / 15 Joint Meeting.

1.19. Review of Contributions

- 1.19.1. A large number of New Documents on “Pre Meeting” on the Flash, and will be on the server when available.
- 1.19.2. **Other submissions**
 - 1.19.2.1. Letter from 5GHz Advisory Council – already assigned 276.
 - 1.19.2.2. Evaluating the performance of 802.11 HRB proposals in Multipath – doc 282
 - 1.19.2.3. Spectral mask consideration for HRB – doc 283 HRBSG
 - 1.19.2.4. 802.11 MAC enhancements for European compliance – doc 284
 - 1.19.2.5. Modeling multipath and fading – document 285 HRBSG
 - 1.19.2.6. 802.11 proposal to support efficient multimedia streaming – doc 286 TGe
 - 1.19.2.7.

1.20. Old Business

- 1.20.1. **Coexistence Group between 802.11 and 802.15.**
 - 1.20.1.1. 802.15.2 is the official group.
 - 1.20.1.2. Joint collaboration with 802.11
 - 1.20.1.3. Plan to generate a Recommended Practice Document under 802.15.
 - 1.20.1.4. We will have joint working group ballots in 802.11 and 802.15
 - 1.20.1.5. What about 5Ghz. Call for interest in an 802.11 group to address 802.11 and 802.15 co existence in the 5GHz band.
 - 1.20.1.6. discussion
 - 1.20.1.6.1. What if 802.15.3 doesn't select a 5GHz phy? Isn't this premature
 - 1.20.1.6.2. Larger issue – with 802.11 and 802.15 the opportunity arises to run two 802. standards on the same media. A recommended practice document doesn't strongly enough specify the coexistence. We need a normative standard to insure they will coexist.
 - 1.20.1.6.3. 802.16 has a study group looking at 5GHz unlicensed. This should be done at the Exec Com level.
 - 1.20.1.6.4. Other standards group go to great lengths to prevent duplication of effort. Shouldn't 802 have a similar oversight?
 - 1.20.1.7. This will be brought up at the joint meeting.
- 1.20.2. **Presentation of 5Ghz Unified Proposal**

- 1.20.2.1. Bill McFarland (Atheros)
- 1.20.2.2. Document 00/175
- 1.20.2.3. Atheros is not planning on standardizing this in 802.11 in the short term, but they would like to discuss with anyone interested
- 1.20.3. RF Safety issues in Wireless LANs
 - 1.20.3.1. Donald Bowan, AT&T Labs
 - 1.20.3.2. Document 279

1.21. *New Business*

- 1.21.1. 5GHz global Standardization and Convergence
 - 1.21.1.1. Rich Kennedy (Compaq)
 - 1.21.1.2. The 5GHz wireless LAN industry advisory group addresses the problems at 5GHz.
 - 1.21.1.3. Trying to avoid multiple standards in the same space.
 - 1.21.1.4. Looking for industry consensus to achieve global standardization in the 5GHz band.
 - 1.21.1.5. Request an 802.11 Study Group to address these issues.
 - 1.21.1.6. Motion to extend the meeting time of the opening plenary to 10:15AM.
 - 1.21.1.7. Moved Harry Worstell
 - 1.21.1.8. Seconded Frank Howley
 - 1.21.1.9. Passes by consensus without objection
 - 1.21.1.10. Motion to create a study group under 802.11 for a 5GHz globalization, with coordination with ETSI and MMAC
 - 1.21.1.10.1. Moved Ivan Reede
 - 1.21.1.10.2. Seconded Peter Murray
 - 1.21.1.10.3. Discussion
 - 1.21.1.10.3.1. How could this study group respond in the desired timeframe? The intent is to start the organization moving towards convergence.
 - 1.21.1.10.3.2. The 60 days is to get similar study groups established in the other organizations, not to complete the work.
 - 1.21.1.10.4. Vote Passes 29:5:0
 - 1.21.1.11. Nomination of Chair for this study group.
 - 1.21.1.11.1. Nomination of Rich Kennedy
 - 1.21.1.12. Discussion of whether a study group can be formed without a Quorum.
 - 1.21.1.13. Quorum Check – 52 members are present out of 103 voting members. We have a Quorum.
 - 1.21.1.14. Previous motion ruled out of order.
 - 1.21.1.15. This discussion is deferred until the Wednesday Plenary.
- 1.21.2. ETSI Documents are available on 802.11 web site.
 - 1.21.2.1. It is a mirrored site, and the organization is a bit arcane.
- 1.21.3. 802.11a Enhancements for European Compliance
 - 1.21.3.1. Papers have been submitted to TGe on this subject.
 - 1.21.3.2. We will set up a sub group within TGe to address DFS and TPC. With these enhancements we believe we can be European compliant.
 - 1.21.3.3. Proposal to break TGe into three subgroups:
 - 1.21.3.3.1. Security

- 1.21.3.3.2. DFS and TPC
- 1.21.3.3.3. QoS and other MAC enhancements
- 1.21.3.4. Determine a means to incrementally approve these separate components, so each component can be released as soon as possible
- 1.21.3.5. Motion divide TGe into 3 subgroups. A) Security / Authentication, B) QoS / Misc, C) DFS / TPC, and to authorize the WG Chair and TGe Chair to implement a phased approval process for the subgroups
 - 1.21.3.5.1. Motion ID 224
 - 1.21.3.5.2. Moved John Fakatselis
 - 1.21.3.5.3. Seconded Ivan Reede
 - 1.21.3.5.4. Discussion
 - 1.21.3.5.4.1. There is a problem with the PAR. This work isn't authorized in the PAR.
 - 1.21.3.5.4.2. Request for this to be ruled out of order
 - 1.21.3.5.4.3. Ruled Out Of Order by the Chair
 - 1.21.3.5.4.4. Moved to Set Adjourn Time 10:30AM
 - 1.21.3.5.4.4.1. Moved Matthew Shoemake
 - 1.21.3.5.4.4.2. Motion ID 225
 - 1.21.3.5.4.4.3. No Discussion
 - 1.21.3.5.4.4.4. Vote on adjourn time – passes 35:08
- 1.21.3.5.5. Appeal of ruling out of order. The PAR can divide itself. The Topic of DFS TPC is within the scope of the PAR.
 - 1.21.3.5.5.1. Discussion against the appeal – the WG does not have the ability to implement a phased approval process, with one PAR.
- 1.21.3.5.6. Vote on appeal to disallow previous motion. Fails 9:13:32. The chairs ruling is overruled.

1.22. Adjourn for Sub Groups at 10:20

802.11 / 802.15 8th Joint Session, September 20, 2000

- 1.1. Called to order by Stuart Kerry and Bob Heile at 1:00PM**
- 1.2. Opening**
 - 1.2.1. Agenda Review
 - 1.2.2. New Business
 - 1.2.2.1. None
 - 1.2.3. Roll Call skipped due to size of gathering
- 1.3. Approval of Agenda**
 - 1.3.1. By unanimous consent
- 1.4. Announcements**
 - 1.4.1. C Bisidikian, Guest editor of IEEE network magazine. Special issue on wireless networks September 2001. Call for papers, abstracts due March 2001.
 - 1.4.2. Email Reflectors – please restrict messages to official business of the IEEE working groups
 - 1.4.3. We have pre-registration forms for November plenary.
- 1.5. Approval of Minutes from La Jolla**
 - 1.5.1. Each working group has independently approved their minutes
- 1.6. Old Business**
 - 1.6.1. A joint document section will be established on the 11 / 15 web sites. Joint web site access will be established for both WG's private areas.
 - 1.6.2. Mirror site of ETSI/BRAN site is available on IEEE web site.
 - 1.6.3. Review of Interim Meetings
 - 1.6.3.1. Plenary in Tampa
 - 1.6.3.2. January 2001 Interim will be held in Monterey CA, Jan 15th to 19th, 2001. Hyatt Regency, Hotel reservation deadline Dec 4th.
 - 1.6.3.3. March Plenary – Hilton Head, SC
 - 1.6.3.4. May Interim – Hosted by Parkervision / Intersil in Orlando Florida. Week of May 13th.
 - 1.6.3.5. July Plenary – Portland OR
 - 1.6.3.6. September Interim – looking for volunteers for hosts.
 - 1.6.4. Seattle Financials, Year to Date
 - 1.6.4.1. document 802.15/231r0
 - 1.6.4.2. Surplus amount \$9452.05
 - 1.6.5. Wireless Network for meetings
 - 1.6.5.1. Dick Eckard has been working on a IEEE owned permanent wireless network proposal.
 - 1.6.5.2. 2 APs 2 file servers, 2 wireless preamps and microphones. Shipping containers, 24 radio cards to lend at meetings.
 - 1.6.5.3. Projected expense is \$9100.
 - 1.6.5.4. 3COM is interested in donating equipment.
- 1.7. Task Group and Study Group Reports**

- 1.7.1. 802.11 TGd Update
 - 1.7.1.1. TGd did not meet. The draft is being put together for sponsor ballot. It will be an electronic ballot.
 - 1.7.1.2. There will be a 30 day ballot. The results will not be available by November, so any comments will be resolved in January.
 - 1.7.1.3. All no-voters have changed their votes to approval
- 1.7.2. 802.11 TGe Update
 - 1.7.2.1. Significant progress so far. The TG has been broken into subgroups – QoS, Security, sponsored an ad hoc group to address DFS/TPC.
 - 1.7.2.2. In the QoS group we have passed a motion to end the call for proposals at the November meeting.
 - 1.7.2.3. We have planned to have a baseline complete by November.
- 1.7.3. 802.11 TGf Update
 - 1.7.3.1. The goal for this week was to complete a first draft, but will not be achieved. There have been no proposals for multiple distribution environments.
- 1.7.4. 802.11 HRb SG
 - 1.7.4.1. LB 23 – par reaffirmed with a vote of 70:0:0
 - 1.7.4.2. Approved selection procedure, functional requirements, and comparison criteria. There will be a WG motion to approve these documents.
 - 1.7.4.3. Approved a motion related to FCC.
 - 1.7.4.4. A draft press release was generated. The latest version includes modifications made by ExCom.
 - 1.7.4.5. Final approval of PAR will be made today or tomorrow, forming TGg.
 - 1.7.4.6. Discussion
 - 1.7.4.6.1. When will the FCC conference call take place? That is the motion that will be brought up in the 802.11 plenary. The call would take place in November.
 - 1.7.4.6.2. Is it premature to adopt requirements and criteria within 24 hours of the formation? The group has been meeting for almost a year now, plus open teleconferences.
- 1.7.5. 802.15.1 BT radio 1 task group
 - 1.7.5.1. Review of presentations
 - 1.7.5.2. Draft of 800 pages has been forwarded to IEEE editor.
 - 1.7.5.3. Approved letter ballot 3 resolutions, disposed some of comments. Some comments to go to Bluetooth SIG for resolution.
 - 1.7.5.4. Project plan to be updated.
- 1.7.6. 802.15.2 Coexistence task group
 - 1.7.6.1. Report in 802.15 document 268r0
 - 1.7.6.2. Coexistence model – mutual interference of WLAN and WPAN upon one another.
 - 1.7.6.3. Mechanisms – techniques to facilitate coexistence
 - 1.7.6.4. Review of presentations.
 - 1.7.6.5. Call for presentations on coexistence mechanisms
- 1.7.7. 802.15.3 High Rate Task Group
 - 1.7.7.1. Objective to reduce MAC/PHY proposals by 50%. Final choice in November. Draft standard in 2002.
 - 1.7.7.2. More work is necessary before the first cut. There will be no vote this week.
 - 1.7.7.3. Target to have selection votes in November.
- 1.7.8. 802.15 Radio 2 Study Group

- 1.7.8.1. Study group approved at the close of the La Jolla meeting.
- 1.7.8.2. The charter is to address a PAR for a second generation Bluetooth radio with a rate between Bluetooth 1 and the 802.15 high rate.
- 1.7.8.3. Discussion
 - 1.7.8.3.1. Is the radio group looking at WBFH? No the charter is clear – Bluetooth SIG enhancement with a corresponding IEEE standard enhancement.
- 1.7.9. 802.15 Low Rate Study Group
 - 1.7.9.1. Report in document 802.15:314
 - 1.7.9.2. Formed in La Jolla meeting. 5 conference calls have taken place. PAR and 5 criteria drafts have been generated. Ready to submit to .15WG
 - 1.7.9.3. Low rate connectivity with minimal battery consumption. Maximum data rate of 200Kbps, but will support down to 1kbps.
 - 1.7.9.4. Interested in location tracking capabilities.
 - 1.7.9.5. Will be voted on by .15 WG and then move on to ExCom and NesCom, expect to be a task group in January.
 - 1.7.9.6. Expect to have a standard in January 2002.
- 1.8. Review of Joint Regulatory Activities**
 - 1.8.1. Ultra Wideband Update
 - 1.8.1.1. NPRM 98-153. Comments closed Sept 12, 2000.
 - 1.8.1.2. Proposed to allow class B above 2GHz, 12dB below class B below 2GHz
 - 1.8.2. 5GHz WLAN Industry Advisory Group
 - 1.8.2.1. To establish a single global standard for 5GHz.
 - 1.8.2.2. Compaq Intel Microsoft.
 - 1.8.3. 802.11a in Europe
 - 1.8.3.1. Effort underway to allow 802.11a to operate in Europe
 - 1.8.3.2. Drafted a response to the ETSI BRAN letter of May 2, 2000.
 - 1.8.3.3. TPC / DFS is being addressed in 802.11e
 - 1.8.4. NPRM 99-231 ruling
 - 1.8.4.1. R & O issued , allowing WBFH.
 - 1.8.4.2. Processing gain issue not yet decided.
 - 1.8.5. WRC
 - 1.8.5.1. WRC expected a US proposal for allocation for upper UNII bands for RLAN apps.
 - 1.8.5.2. Needs to be included in agenda for 2003.
- 1.9. IEEE Publishing Staff presentation**
 - 1.9.1. Susan Tatiner, on IEEE copyright rules and issues.
 - 1.9.2. Discussion
 - 1.9.2.1. Is the working group not allowed to accept a submission that is copyrighted, or only if it is destined for a draft standard? Yes, as long as it is not included in a standard.
- 1.10. 802.11 / 802.15 / 802.1x Liaison regarding Bridges**
 - 1.10.1. Review of 802.1 activities
 - 1.10.2. Higher layer interface working group – issues above the MAC service boundary within an 802 LAN environment.

- 1.10.3. Specifically regarding MAC bridging 802.1d and now 802.1q the VLAN standard. More recently 802.1x (port based access control).
- 1.10.4. Are there opportunities for liaison that are not being addressed between our groups?
- 1.10.5. There may be an opportunity with respect to QoS, over 802 networks.
- 1.10.6. Discussion
 - 1.10.6.1. What is the status of 802.1x? We've had a successful working group ballot. We've been working on comment resolution, very nearly done. One more confirmation ballot, at least. Sponsor ballot in November to December time frame.
- 1.11. Coexistence issues – 802.11 / 802.15 / 802.16**
 - 1.11.1. Call for interest to form a group to deal with coexistence at 5GHz. The 802.15.2 group addresses the 2.4GHz band.
 - 1.11.2. 802.16 also has a 5GHz initiative.
 - 1.11.3. We concluded to table this in the 802.11 WG, and raise it in the 802 Executive Committee
- 1.12. New Business**
 - 1.12.1. Thanks to Rich Ditch for sponsoring
- 1.13. Adjourned at 3:00 PM**

802.11 Wednesday Plenary Session, September 20, 2000

1.1. *Called to order by Stuart Kerry at 3:30PM*

1.2. *Review of approved agenda*

1.3. *New Agenda Items*

1.3.1. Joint Motion between Ad Hoc regulatory and High Rate Study Group – Liaison meeting with FCC regarding Process gain issue.

1.3.2. Proposal for 5GHz global standard (agreeable to merge with existing agenda item)

1.3.3. Extend the time allocated?

1.3.3.1. Time extended to complete this agenda without objection

1.3.4. Approval of Agenda

1.3.4.1. Discussion

1.3.4.2. Note that there is a DSL forum meeting at the same time as our Plenary. Request that a liaison letter be sent to the DSL forum. The 802.11 Chair will pass the message to the 802 ExCom to request a letter to DSL Forum.

1.3.4.3. Agenda accepted without objection

1.4. *Affirm liaison representatives from 802.11*

1.4.1. The roles and responsibilities

1.4.2. From 802.11 to 802.15 - Bruce Kreamer, Al Petrick, Peter Murray

1.4.3. From 802.15 to 802.11 Alan Heberling,

1.4.4. From 802.16 Naftali Chayat, John Kowalski

1.4.5. From 802.11 to WECA – Jim Zyren

1.4.6. From ETSI to 802.11 – Jamshid Kun Jush

1.4.7. Motion: that Stuart Kerry be appointed as the Liaison between 802.11 and ETSI BRAN

1.4.7.1. Moved Al Petrick

1.4.7.2. Seconded Harry

1.4.7.3. Approved without objection with unanimous consent

1.4.8. David Skellern volunteers to liaison from 802.11 to ETSI BRAN (HiperLAN).

1.4.9. Motion: that David Skellern be appointed as a Liaison between 802.11 and ETSI BRAN

1.4.9.1. Moved Al Petrick

1.4.9.2. Seconded Harry Worstell

1.4.9.3. Approved without objection, by unanimous consent.

1.4.10. We have approved a liaison between 802.11 and IEEE P1363 : Glenn Zorn

1.4.10.1. Glenn Zorn approved as liaison between 802.11 and P1363 without objection

1.5. *5GHz Global Standard / Convergence Study Group*

1.5.1. Document 284.

- 1.5.2. A letter from the 5GHz wireless industry advisory group has been sent to the 802.11 Chair.
- 1.5.3. 802.11 and ETSI BRAN have established a good working relationship. If there is sufficient interest in 802.11 and ETSI BRAN, this could be considered.
- 1.5.4. Discussion
- 1.5.4.1. The same large corporations participate in all these standards bodies and industry forums. Yet we cannot reach an agreement. Urge the chairs to work out procedures to expedite such unification work.
- 1.5.4.2. The intent is good, but the details of the wording is a concern. 802.11 shouldn't commit to create a global standard. It has the potential to invalidate a lot of work that has been done and is being done.
- 1.5.4.3. The proposal commits 802.11 to work with ETSI, but not to create a single standard for the band.
- 1.5.4.4. This is a worthwhile goal. They are addressable, but it does require cooperation all around. But we should do what we can to push this forward.

1.5.5. Motion: to approve a study group to look at a means to converge the 3 major wireless LAN standard: IEEE 802.11, ETSI-BRAN HiperLAN /2, and MMAC.

- 1.5.5.1. Motion ID 227
 1.5.5.2. Moved Caldwell
 1.5.5.3. Second Evan Green

1.5.6. Discussion

- 1.5.6.1. This wording calls for a convergence of 802.11 (all the PHYs and the MAC and MAC extensions). This says one size fits all. Opposes this. There is no benefits of all these side effects.
- 1.5.6.2. Motion to amend – change 802.11 to 802.11a

- 1.5.6.2.1. Moved Dave Bagby
 1.5.6.2.2. Seconded Richard Paine
 1.5.6.2.3. Discussion

- 1.5.6.2.3.1. 802.11a is a PHY only. Changing the PHY only could not accomplish this goal.
- 1.5.6.2.3.2. Supports the intent of the amendment. 802.11a doesn't include a MAC. This would require MAC changes. Without a change to the scope of 802.11 we cannot do this.
- 1.5.6.2.3.3. Call the question

- 1.5.6.2.3.3.1. John F
 1.5.6.2.3.3.2. John K

- 1.5.6.2.3.4. Vote calling the question: 44:1:0

- 1.5.6.3. Vote on the motion to amend: passes 23:18:12
- 1.5.6.4. Motion as amended:
- 1.5.6.5. Motion: to approve a study group to look at a means to converge the 3 major wireless LAN standards: IEEE 802.11a, ETSI-BRAN HiperLAN /2, and MMAC.
- 1.5.6.6. Discussion

- 1.5.6.6.1. This motion should be contingent on the other two bodies agree. Suggests an amendment along those lines:
- 1.5.6.6.2. There are two necessary conditions

1.5.6.7. Motion to amend to:

1.5.6.8. Motion: to approve a study group to look at a means to converge the 3 major wireless LAN standards: IEEE 802.11a, ETSI-BRAN HiperLAN /2, and MMAC, conditional on the receipt of approval objectives from the industry advisory group by 10/2/00 and the setting up of similar study groups by ETSI-BRAN HiperLAN /2, and MMAC by 11/20/00

1.5.6.8.1. Moved Dave Bagby

1.5.6.8.2. Second John F

1.5.6.9. Discussion

1.5.6.9.1. The original motion was about the work we should we do. This makes it contingent on others actions. Against the motion

1.5.6.9.2. This covers us with the other groups.

1.5.6.9.3. Calls the question

1.5.6.9.3.1. John K, Ivan

1.5.6.9.3.2. Vote on calling the question: 54:0:5

1.5.6.10. Vote on the motion to amend: passes 30: 11: 18

1.5.6.11. Call the question on the main motion

1.5.6.11.1. Dave Bagby

1.5.6.11.2. John K

1.5.6.11.3. Vote on calling the question: 44:2:10

1.5.6.12. Vote on the main motion: passes 28:13:17

1.5.7. Discussion

1.5.7.1. Are there any nominations for the chair of this study group?

1.5.7.2. This study group won't exist until November.

1.5.7.3. The 802.11 chair will inform ETSI that we have formed a Study Group at the next ETSI meeting.

1.5.7.4. Nominate Richard Kennedy as chair of SG

1.5.7.5. We trust the chair of 802.11 to communicate the conditional nature of this action, and defer appointments until November.

1.5.7.6. This group comes into being when the conditions are satisfied. 11/20/00 is the latest that could happen. It is not a specific date.

1.6. **Presentation by hLAN on Global 5GHz standard**

1.6.1. Gil Bar-Noy, hLAN - Document 272

1.6.2. Coexistence plan for HiperLAN and 802.11a MACs.

1.6.3. Time division multiplexing between 802.11a and HL2

1.7. **802.11a Enhancements for European Compliance**

1.7.1. Ad Hoc Group – has generated a draft PAR to form the 5GHz Spectrum and Transmit Power Management Study Group.

1.7.2. Document 301.

1.7.3. Reference to document 171, HiperLAN rules, decision number 5 requires features of dynamic frequency selection and transmit power control.

1.7.4. If 802.11 is modified to comply with these rules, it could be allowed to operate in Europe after the review in two years.

1.7.5. Motion to authorize formation of a 5GHz Spectrum and Transmit Power Management Study Group until the close of the November Plenary.

- 1.7.5.1. Moved Peter E
- 1.7.5.2. Seconded John K
- 1.7.5.3. Motion ID 230
- 1.7.5.4. No Discussion

1.7.6. Vote on Motion: Passes 53:1:4

1.8. Motion to recess until 8:00AM Friday

- 1.8.1. Moved Dave Bagby
- 1.8.2. Motion ID 231
- 1.8.3. Second Chris H
- 1.8.4. Vote: Motion fails 27:30:9

1.9. Proposal for SG 2.4GHz Wideband FH

- 1.9.1. Naftali Chayat
- 1.9.2. Document 311

1.9.3. Motion: That the 802.11 WG establish a Study Group with the objective of preparing a PAR for a WBFH PHY project.

- 1.9.3.1. Naftali
- 1.9.3.2. Second Richard Paine
- 1.9.3.3. Motion ID 232
- 1.9.3.4. Discussion

- 1.9.3.4.1. This brings nothing more to the market. We are already doing a higher rate 2.4GHz SG. Opposed the motion.
- 1.9.3.4.2. We have agreed that there would be a single High Rate PHY for 802.11 in the 2.4GHz.
- 1.9.3.4.3. We need to clarify if this motion contradicts the previous position of a single high rate PHY.
- 1.9.3.4.4. When we chartered the HRB SG we were looking to find higher performance solutions for 2.4GHz band. This should be brought to the HRB SG.
- 1.9.3.4.5. This group has made explicitly clear that they believe that WBFH is detrimental to the users of the band and the standard. This would send the wrong message to the market.
- 1.9.3.4.6. One of the five criteria is unique identity. This would never have a unique identity compared to HRB SG

1.9.3.5. Call the Question

- 1.9.3.5.1. Ivan
- 1.9.3.5.2. Dave B
- 1.9.3.5.3. Vote to call the question: 55: 1: 6

1.9.3.6. Vote on the main motion: 5:44:13

1.10. Joint Ad Hoc Regulator / HRB SG liaison with FCC

1.10.1. Matthew Shoemake

1.10.2. Motion: the High Rate 802.11b SG and A Hoc Regulatory Group jointly schedule a telephone conference call with the OET at

the FCC for the November meeting to discuss their perspectives on the processing gain issue. To schedule conference calls of HRbSG / TGg and Ad Hoc Regulatory to determine the agenda for the FCC conference call.

- 1.10.2.1. Moved Matthew Shoemake
- 1.10.2.2. Motion ID 233

1.10.3. Discussion

- 1.10.3.1. We have to talk to our ombudsman who must be involved in this issue as well. This is also an output to the Executive committee.
- 1.10.3.2. This motion is a result of HRbSG and the Ad Hoc Reg group. Both groups passed motions approving this motion.
- 1.10.3.3. What is the usefulness of this phone call? Do we have a position to advocate? We need to go in with hard data and a proposal with benefits to society. Oppose the motion.
- 1.10.3.4. What does the motion want to accomplish? The only difference is that we would be using the 802.11 name. Why is that significant for information gathering. Perhaps the chairs need more time to work this out.
- 1.10.3.5. What better ways are there to approach this issue? Given that we have no proposals now, this is premature. Advocates sending an official letter to the FCC and we anticipate having a dialog with them as we proceed.
- 1.10.3.6. Call the question

- 1.10.3.6.1. John K
- 1.10.3.6.2. Ivan
- 1.10.3.6.3. Vote on call the question: 35:7:2

1.10.4. Vote on the motion: fails 10:27:20

1.11. Adjourn

Friday, September 22, 2000

- 1.1. Minutes taken by Michael Fischer substituting for Tim Godfrey who had to leave unexpectedly on Thursday evening**
- 1.2. Call to order by Stuart Kerry at 08:08AM**
- 1.3. Review of revised agenda**
 - 1.3.1. New items
 - 1.3.1.1. Parliamentarian's report
 - 1.3.1.2. 5GHz globalization SG report
 - 1.3.1.3. Reminds members that a slot exists for new business
 - 1.3.2. Agenda accepted without dissent
- 1.4. Announcements**
 - 1.4.1. Chairs' pre-meeting conference calls 10/09 and 10/30
 - 1.4.1.1. TGe sub-group chairs should participate
 - 1.4.1.2. open meeting, but purely administrative
- 1.5. WG Parliamentarian's Report; Bob O'Hara**
 - 1.5.1. Clarifies the reason to enforce Roberts' Rules is NOT delay and complication but rather to require that we follow the rules we are required to use from IEEE-SA, 802, 802.11 all of which refer to Roberts' Rules.
 - 1.5.2. If we don't follow proper procedure, the results of the work could be nullified by an appeal due to proper procedure not being followed:
 - 1.5.2.1. An appeal will, at a minimum consume time and delay the standard
 - 1.5.2.2. At worst the work could need to be re-done or the PAR could be revoked
 - 1.5.3. Beyond 802 or IEEE-SA appeal there could be challenges in court, as has happened to some other (non-IEEE) standards bodies, with broad (undesirable) consequences.
 - 1.5.4. Makes strong statement that the rules are there to facilitate making sure all opinions be heard, and that the best way to make progress is to follow them – "Go slow to go fast."
 - 1.5.5. Recommends parliamentary inquiries rather than proceeding when unsure of the rules or appealing rulings of the chair, which should only be used as a last resort.
 - 1.5.6. Discussion
 - 1.5.6.1. There are cases the rules are used to prevent items from being heard as well as the opposite
 - 1.5.6.2. Concern that some of the rules issues are seen as disputes when they are uncertainty of how to proceed, and urges asking of how to achieve the desired goals
 - 1.5.6.3. Sometimes rules are used to "prevent the general intent of going forward" especially when they cut off discussion before all viewpoints are heard: we should not be too quick to call the question
 - 1.5.6.4. Notes that whether to end debate is in control of the group, since a 2/3 majority is needed to cut off debate
 - 1.5.6.5. A suggestion based on how some other groups operate is to attempt to have successive discussion speakers be from alternate viewpoints so

that a progression of like opinions does not lead to cutoff prior to all views being adequately heard

1.5.6.6. A point that applying some common courtesy would make things go smoother

1.5.7. Change in procedure for WG reports and motions

1.5.7.1. Reports in the agenda are just for the report

1.5.7.2. Motions are announced in the reports, but the motions and debate and votes are moved to new business where they belong

1.5.7.3. "adjourn" for sub-groups should properly be to "recess" for sub-groups because technically "adjourn" drops the items remaining on the agenda, whereas "recess" on Monday and Wednesday sessions preserves the agenda items.

1.5.7.4. After clarifying a few details these rule changes are accepted without dissent for immediate implementation

1.6. **802.11 WG Operating Rules Revision; Al Petrick**

1.6.1. Announces that a revision of the operating rules is on the server and should be reviewed by all interested parties.

1.7. **WG, TG, SG, and Sub-Group chairs' reports updates and objectives updates are to be supplied to Tim Godfrey for updating of the Web Site**

1.8. **Document list update; Harry Worstell**

1.8.1. 335 documents so far this year

1.8.2. Emphasizes that there IS a required format and templates to create the proper formatting.

1.8.2.1. To date he has been fixing minor problems with submitted documents, but he cannot be relied upon to do this in the future!

1.8.2.2. More notices of how to find the templates will be added to the web site.

1.8.3. Change of Harry Worstell's position from "Co-Vice Chair" to "Vice Chair" approved by unanimous voice vote.

1.9. **TGB-COR1 Closing Report; Carl Andren**

1.9.1. All issues resolved and all that remains is to send this for an (electronic) sponsor ballot.

1.9.2. In the (anticipated) absence of ballot comments by that time there will be no TGB-COR1 meetings in November.

1.10. **TGD Closing Report; Bob O'Hara**

1.10.1. All issues resolved and a sponsor ballot pool request will go out from IEEE within the next week or two.

1.10.2. The ballot pool formation time plus balloting time require more than the time available prior to the November meeting, so there is no meeting planned for November.

1.11. **TGE Closing Report; John Fakatselis**

1.11.1. Good progress this week, made up much of the time lost due to the lack July meeting

1.11.2. New officers

1.11.2.1. Michael Fischer is TGE editor

1.11.2.2. QoS Sub-group

- 1.11.2.2.1. Chair: John Fakatselis
 - 1.11.2.2.2. Editor: Michael Fischer
 - 1.11.2.3. Security Sub-group
 - 1.11.2.3.1. Chair: Dave Halasz
 - 1.11.2.3.2. Editor: Jesse Walker
 - 1.11.3. QoS Sub-group reports good progress on a baseline and intent to continue this with teleconferences, etc. between now and the next meeting
 - 1.11.4. Security Sub-group reports hearing all of its proposals and is on schedule
 - 1.11.5. Spectrum Managed 802.11a (SMa) SG report; Carl Temme
 - 1.11.5.1. Formerly the DFS/TPC ad-hoc within TGE, but on Wednesday split off into a separate sub-group
 - 1.11.5.2. PAR SCOPE
 - 1.11.5.2.1. 802.11a MAC and PHY extensions to support spectrum management mechanisms to meet additional regulatory (e.g. CEPT)
 - 1.11.5.3. Objectives
 - 1.11.5.3.1. Define objectives and selection criteria
 - 1.11.5.3.2. Intends to finalize PAR and 5 Criteria for ballot
 - 1.11.5.3.3. Review any comments so that revisions can be approved by final 802.11 full WG session in November
- 1.12. TGF Closing Report; Dave Bagby**
- 1.12.1. Meeting notes are cursory because of lack of a secretary
 - 1.12.1.1. Call for TGF secretary
 - 1.12.1.2. Chair notes meetings can be terminated due to lack of a secretary if the chair does not want to take minutes himself
 - 1.12.2. Progress
 - 1.12.2.1. No new proposals, but a lot of ad-hoc discussions, only paper presented was 00/305.
 - 1.12.2.2. Some consensus is beginning to emerge, but nothing has been adopted yet
 - 1.12.2.2.1. Connecting APs via Mobile IP or AP-AP tunnels
 - 1.12.2.2.2. Security for "reasonably secure" considering 802.1X or IPsec between APs
 - 1.12.2.3. No future consideration of additional work due to expiration of call for proposals without any more submissions
 - 1.12.2.4. Generated a template for the draft, but no content yet
 - 1.12.2.5. About 45 people attended by many fewer identified themselves as present to contribute rather than to learn.
 - 1.12.2.6. There will be ad-hoc teleconferences announced on the reflector, but all decisions will be made at the next meeting. These are open calls, but if there to learn, please listen on the call.
- 1.13. TGG Closing Report; Matthew Shoemake**
- 1.13.1. The former HRb SG is now officially TGG
 - 1.13.2. Have finished several documents which will the subject of approval motions later at this meeting
 - 1.13.3. Intend to issue CALL FOR PROPOSALS
 - 1.13.3.1. deadline for intent to propose is Monday, October 30 (one week prior to opening of November meeting)

- 1.13.3.2. deadline for submission of the proposals is Monday, November 6
- 1.13.3.3. TGG may not have to meet until Tuesday, November 7
- 1.13.4. Have issues regarding FCC regulatory and will (re-) propose teleconference with FCC
- 1.13.5. Heard papers on spectral mask and FCC liaison
- 1.13.6. Objectives
 - 1.13.6.1. Continue with selection procedure
 - 1.13.6.2. Start to hear submitted proposals
 - 1.13.6.3. Take up liaison with external organizations
- 1.14. 5GHz Globalization SG Closing Report; Rich Kennedy**
 - 1.14.1. Objectives (while waiting for approval of corresponding SGs by ETSI-BRAN and MMAC, etc.)
 - 1.14.1.1. Choose name for group
 - 1.14.1.2. Explain how this effort differs from SMa SG
 - 1.14.1.3. Select secretary
 - 1.14.1.4. Report back to 5WLIAG
 - 1.14.1.5. Meet with ETSI-BRAN and MMAC
- 1.15. Regulatory Ad-Hoc Closing Report; Jim Zyren**
 - 1.15.1. Will bring a motion under old business.
- 1.16. Marketing Ad-Hoc Closing Report; Al Petrick**
 - 1.16.1. Intend to adopt more common documents and themes with 802.15 WPAN marketing activities
- 1.17. New Business (which is before old business because of error in ordering on the approved agenda)**

<ul style="list-style-type: none"> 1.17.1. An objection from the floor (Peter Ecclesine) prevented reversing this order by consent 1.17.2. Move to reconsider: Peter Ecclesine, 1.17.3. Seconded: John Barr 1.17.4. Motion passed without objection on voice vote

 - 1.17.5. Motion ID 234
 - 1.17.6. Order of new and old business reversed
- 1.18. Old Business-TGE**
 - 1.18.1. Announces motion (not needing plenary approval) that 00/304 has been adopted as TGE draft creation procedure
 - 1.18.2. Announces motion (not needing plenary approval) that 00/306 is document that shows division of topics between the QoS and Security activities within TGE
 - 1.18.3. Some discussion about whether formal 802.11 is needed and/or desired and the conclusion is that these are just internal resolutions adopted by TGE

<ul style="list-style-type: none"> 1.18.4. Motion: Move to announce an Ad-Hoc 802.11 TGE QoS meeting (location TBD) on October 24-25, 2000 with the single subject of working on the Baseline QoS proposal for the November plenary.

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| 1.18.4.1. | Moved: TGE, no second required |
| 1.18.4.2. | Motion ID 235 |
| 1.18.4.3. | no discussion |
| 1.18.4.4. | Motion passes: 32-0-4 |

1.18.5. Motion: 802.11 to announce occurrence of weekly QoS ad-hoc teleconferences with first teleconference to Start 12:30 EDT on October 4, 2000 (weekly until the November meeting)

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| 1.18.5.1. | Moved: TGE, no second required |
| 1.18.5.2. | Motion ID 236 |
| 1.18.5.3. | no discussion |
| 1.18.5.4. | Motion approved unanimously by voice vote |

1.18.6. Motion: Announce that the November plenary meeting be the final opportunity for new proposals from which the QoS baseline will be created

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| 1.18.6.1. | Moved: John Fakatselis (as individual on behalf of TGE QoS subgroup because of oversight that this was omitted from approval) |
| 1.18.6.2. | Seconded: John Barr |
| 1.18.6.3. | Motion ID 237 |
| 1.18.6.4. | Discussion: Stated that this is desirable to make progress, clarified that this mean the cut off is the final TGE session of the November, 2000 plenary meeting. |
| 1.18.6.5. | Motion passes: 35-0-1 |

1.19. Old Business-TGG

1.19.1. Move: To affirm documents 00/209r3-Selection Procedure (approved in TGG 37-0-4), 00/210r4-Functional Requirements (approved TGG 34-0-6), and Document 00/211r9-Comparison Criteria (approved in TGG 38-0-5)

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| 1.19.1.1. | Moved: TGG, no second required |
| 1.19.1.2. | Motion ID 238 |
| 1.19.1.3. | Inquiry about type of motion, ruled technical because of detailed technical content of document. |
| 1.19.1.4. | Motion passes: 26-0-1 |

1.19.2. Break at 10:00, shortened to 10 minutes by chair due to requests from floor

1.19.3. Move: To affirm Call for Proposals with deadline for intent to propose of Monday, October 30, 2000 at 11:59PM EST, and deadline for submission of proposal to TGG of Monday, November 6, 2000 at 11:59PM EST (approved in TGG 18-0-0).

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|-----------|---|
| 1.19.3.1. | Clarification: "intent to propose" means to communicate to the TGG chair that a proposal will be forthcoming. |
| 1.19.3.2. | Moved: TGG, no second required |
| 1.19.3.3. | Motion ID 239 |
| 1.19.3.4. | Discussion: The intent is to end the consideration of new proposals at these deadlines because the selection process already adopted involves elimination voting so there is no easy way to accommodate later additions |
| 1.19.3.5. | Motion passes: 29-0-2 |

1.19.4. Move: that the TGg and Ad-Hoc Regulatory group jointly schedule a teleconference call with the OET at the FCC for the November meeting to obtain FCC perspectives on the processing gain and other relevant issues and to schedule conference calls of TGg and Ad-Hoc Regulatory group to determine the agenda for the FCC teleconference call. The TGg requests participation of the 802.11 WG chairman in these meetings.

1.19.4.1. Moved: TGG, no second required

1.19.4.2. Motion ID 240

1.19.4.3. Ruled out of order because the body has already made a decision on the same subject matter (motion 233) under the same

1.19.5. Move: Rescind the decision on Motion 233
--

1.19.5.1. Moved: Matthew Shoemake on behalf of TGG
--

1.19.5.2. Seconded: Carl Andren

1.19.5.3. Motion ID 241

1.19.5.4. Chair reminds body this decision requires a 2/3 vote.

1.19.5.5. Parliamentarian states that debate on a motion to rescind can include topics pertaining to the original motion as well as the decision to rescind.
--

1.19.5.6. Discussion:

1.19.5.6.1. Query about why there is such a strongly held desire to revote on this issue.

1.19.5.6.2. Answer, which did not get mentioned before end of debate on motion 233, is that the FCC has requested a dialog with IEEE 802 to coordinate these issues.
--

1.19.5.6.3. Issue identified that there is no official liaison with the FCC, and the bilateral discussions by individual members put those individuals in the position of relating to this group what they have heard from the FCC as representatives of their companies, and this allows TGG to hear directly from the FCC. If we don't act now to learn what the FCC thinks we loose the ability to have a dialog while the FCC proceeding is still underway. "It is much better to hear directly from the commission."

1.19.5.6.4. Notes that the new version of the motion is more specific in that it identifies the specific topic to be discussed with the FCC, which the prior motion was not.
--

1.19.5.6.5. Stated that several people were not aware that this was requested by the FCC, and mentioned the reasons that the FCC sought guidance.

1.19.5.6.6. Stated that supporting the decision to rescind is not equivalent to supporting the motion that is expected to be brought forward if the motion to rescind carries.
--

1.19.5.6.7. Request for statement by chair as to what 802 rules are regarding approval of contacts with regulatory bodies such as this.

1.19.5.6.8. Chair: That 802.11 officers (in this case chair) is to inform the 802 regulatory ombudsman (Vic Hayes), who takes the matter to 802.
--

1.19.5.6.9. Stated that even though the FCC has requested this contact, they may be viewing 802.11 as a body of experts and that they want recommendations, and it is dangerous to talk as 802.11 to the FCC when a position has not been adopted on the processing gain issue by 802.11.

- 1.19.5.6.10. Stated that ongoing technical interchange with the FCC is desirable, and that in various times in the past there were quarterly informational teleconferences between 802.11 and the FCC, and that they proved useful. That given the limited scope for the desired contact, there is nothing to lose and potential benefits to both our current standards and our future plans due to making both sides aware of the concerns the other has. Furthermore, there is a reverse risk (vs. the lack of an official 802.11 position on the processing gain issue degrading 802.11's reputation with the FCC) that refusing the FCC request for communication could leave the wrong impression with the FCC.
- 1.19.5.6.11. Statement that the debate on the motion in TGG was not as free from contention, but the speaker is not yet a voting member (will be at next meeting). Concerned that there is not a clear consensus as to what the 802.11 position is, and to whether there actually has been an actual request from the FCC to 802.11, furthermore that the fact that this debate is occurring is sufficient evidence that the subject is undecided and that consensus is lacking
- 1.19.5.6.12. Statement that the requirements of the TGG PAR needs interchange with regulatory bodies, and if the group prevents that interchange there may need to be items of the PAR that need modification. There will be problems evaluating proposals in the absence of this input.
- 1.19.5.6.13. Request for details on PAR impact, speaker yields to TGG chair.
- 1.19.5.6.14. TGG Chair responds that the par includes "IEEE P802.11 will correspond with regulatory bodies worldwide in order to try to assure that the proposed extension will be applicable geographically as widely as possible." Chair clarifies that in his opinion this applies to the selected proposal, and does not speak to the period of evaluation.
- 1.19.5.6.15. Speaker resumes to say that the input is appropriate now to avoid the risk that the proposal selected is at odds with the FCC's intentions and/or preferences on the processing gain issue.
- 1.19.5.6.16. Statement against the motion by person who states he voted in favor of 233, in part due to promoting interests of minority, but is now unsure why there is contact needed without an 802.11/TGG position, in that if this is a limited time window before the FCC makes a decision is this really an information interchange and not advocating an (as yet unchosen) 802.11 position.
- 1.19.5.6.17. Stated that there is clear dispute here and the safe decision is to not rescind the motion, because in practice the

1.19.5.7. Moved to call question: David Bagby

1.19.5.7.1. Seconded: John Kowalski

1.19.5.7.2. Question called without objection

1.19.5.8. Vote on motion to rescind decision on 233

1.19.5.9. Motion to rescind fails: 10-14-11

1.19.5.10. Statement from floor thanking chair for allowing a proper debate on this issue

1.20. Old Business-Regulatory Ad-Hoc

- 1.20.1. Shows draft of letter proposed for sending to ETSI BRAN (document 00/308) and presents summary of contents.

- 1.20.1.1. Point from floor that "requirements" in paragraph D is ambiguous. Word "regulatory" is added prior to "requirements" without objection to clarify the intent of paragraph D.
- 1.20.1.2. Point from floor that IEEE patent policy should be mentioned in paragraph E. A sentence with this reference is added without objection.
- 1.20.1.3. Discussion of whether this was appropriately on the agenda, chair responds that this was among the objectives for the Ad-Hoc regulatory group on the opening session report, clarified by
- 1.20.2. Motion: Approve letter drafted by Regulatory Ad-Hoc Group in response to letter from ETSI BRAN of May 2, 2000 regarding adoption of IEEE 802.11A as a HiperLAN standard. Instruct IEEE 802.11 chair to forward amended letter to ETSI BRAN chairman.
 - 1.20.2.1. Moved: Jim Zyren on behalf of Regulatory Ad-Hoc
 - 1.20.2.2. Seconded: Peter Ecclesine
 - 1.20.2.3. Motion ID 242
 - 1.20.2.4. Motion passes: 10-0-4

1.21. *New Business-SMA SG*

- 1.21.1. Move IEEE 802.11 WG to approve Spectrum Managed IEEE 802.11a (SMa) PAR (00/301r1) and 5 Criteria (00/302r1); to submit them to ExCom for information; and require an IEEE 802.11 WG reaffirmation of these submissions at the opening IEEE 802.11 session of the IEEE 802 Project Plenary Meeting in Tampa, November, 2000.
 - 1.21.1.1. Moved: SMa, no second required
 - 1.21.1.2. Motion ID 243
 - 1.21.1.3. Discussion: Clarified that this was an attempt to avoid the glitches that delayed the TGG approval.
 - 1.21.1.4. Motion passes: 23-0-2

1.22. *New Business-TGG*

- 1.22.1. TGG chair yields to Mark Webster
- 1.22.2. Webster presents document 00/335 that expresses concerns that all proposers do not have common understanding of what proposals to TGG must include for proper evaluation and what proposers must do to satisfy the regulatory requirements of the proposal. This is a desire to amplify the call for proposals to further the pro
 - 1.22.2.1. Opinions from potential proposals range from no need to address the regulatory issue to a couple of interpretations of the current FCC rules.
 - 1.22.2.2. The Functional Requirements, Evaluation Criteria, and Selection Criteria documents already adopted may not be adequately aware of what they will have to answer, and unnecessarily risk elimination of their proposals over this omission and/or misunderstanding.

1.22.3. Motion: Add to the TGG call for proposals a supplementary statement specifying that the submitted proposals are advised to include a recommended strategy for achieving acceptance by worldwide regulatory bodies.

- 1.22.3.1. Moved: Mark Webster
- 1.22.3.2. Seconded: Matthew Shoemake

- 1.22.3.3. Motion ID 246
- 1.22.3.4. Discussion: TGG chair states that the omission that the lack of mention of regulatory issues in the evaluation criteria was because it was felt that proposers would know enough to do this on their own, and that the concern expressed in this motion was appropriate and well in line with the PAR for TGG.
- 1.22.3.5. Chris Heegard has concerns that this motion, which he supports, may unintentionally overly prioritize regulatory considerations over other items.

1.22.4. Motion to Amend: add the sentence at end of motion: "The IEEE 802.11 will promote the selected TGG technical solution, and only the selected solution, to regulatory agencies."

- 1.22.4.1. Moved: Chris Heegard
- 1.22.4.2. Seconded: Mark Webster
- 1.22.4.3. Motion ID 245
- 1.22.4.4. Discussion: Concern that the "only this solution..." might be seen as anti-competitive from the point of view of the FCC.
- 1.22.4.5. Chair requests parliamentary interpretation
- 1.22.4.6. Parliamentarian gives opinion that this is not against the rules of the body, in that the statement is on what to support, not on opposing anything before any regulatory body.
- 1.22.4.7. Several statements of confusion about scope of this amendment.
- 1.22.4.8. Statement that the amendment is unnecessary because the PAR already requires that the solution be promoted before regulatory body.
- 1.22.4.9. Adjournment extended until 12:15 without objection
- 1.22.4.10. TGG chair clarifies that the PAR does state the selected solution will be promoted, but not that there are limitations on what else may or may not be promoted.
- 1.22.4.11. Statement that the "selection" is the final ISO approval
- 1.22.4.12. Parliamentary inquiry on whether it is proper for a TGG selection to refer to an 802.11 action. Response is that is within the rules and the amendment is in order.
- 1.22.4.13. Statement that a rushed decision of this type is ill-advised.
- 1.22.4.14. Vote on amendment fails: 2-10-11

1.22.5. Return to main motion (ID 246)

- 1.22.5.1. No further discussion, proceed to vote
- 1.22.5.2. Motion Passes: 11-2-10

1.22.6. Next Steps:

- 1.22.6.1. Recommendation that meeting sessions start at 8AM during the November meeting.
- 1.22.6.2. No objections so chair rules to start at 8AM
- 1.22.7. Completed agenda, meeting Adjourned at 12:14PM.