

IEEE 802.16
Working Group on
Broadband Wireless Access
(BWA)



Welcome

- **802.16 Culture (ala IEEE 802 culture)**
 - **Engineering Membership**
 - **Seeking Technical Consensus**
 - **Open (even by 802 standards)**
 - **Procedural**
 - **Contribution-Driven**
- **802 is extremely successful**
 - **802 is following the model**
 - **excellent record of progress**

802.16 Officers

- **Chair: Roger Marks**
- **Vice Chair: Brian Kiernan**
- **Secretary: Carl Bushue**

Other Logistics

- **Projectors**
 - TG Chairs are responsible

Resources

- **802.16's On-site server:**
 - **802.11b Wireless LAN; Ethernet**
 - **<http://10.0.0.1>**
 - **Windows File Sharing**
 - **AppleShare**
- **<http://ieee802.org/16>**
 - **Up to date as of Sunday**
 - **May not be updated regularly**

Attendance Procedure

- **Membership is based on session participation**
- **“Participation” = 75%**
 - **6 out of 8 session intervals this week**
 - **Afternoon (Monday-Thursday)**
 - **Morning (Tuesday-Friday)**
- **Attendance Book Procedure**
 - **Four Books**
 - **Initial if you attend “substantially the entire meeting interval”**

Chair's Report

- **Announcements**
- **Status**

Rights of All

- To subscribe to the 802.16 Email Reflector (and Focused Reflectors) and thereby be notified of document publication, meetings, minutes, ...
- To post to reflectors in accordance w/rules
- To examine documents, unless copyright concerns prohibit it.
- To contribute documents in response to a Call for Contributions.
- To attend and participate in 802.16 meetings, if registered.
- To join the Sponsor Balloting Pool.

Rights of Members & Observers

- To examine draft standards.
- To participate in Working Group Letter Ballots.
- To examine the Member and Observer contact databases.

Exclusive Rights of Membership

- To make or second a motion at any meeting of 802.16 or its subsidiaries.
- To vote, if and only if present, at any meeting of 802.16 or its subsidiaries.
- To vote in 802.16 Working Group Letter Ballots.
- To vote by email on any issue involving 802.16 or its subsidiaries.
- To lodge complaints about Working Group operation with the 802 Executive Committee.
- To petition the 802 Executive Committee in writing.

Individuality

- **Participation is by individual**
 - **Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives**
 - **Membership belongs to the individual, not an organization, and may not be transferred.**

Voting in Task Groups

- Only 802.16 Voting Members may vote in task Group meetings
 - Show Voting Token (badge with logo)
- All present may vote in meetings of the Coexistence Study Group

Basic Process Steps

Study Group

Develops plan to standardize

Creates PAR for 802 & IEEE approval

Task Group

a) Find Consensus on initial draft

Call for proposals

Consolidate

b) refine draft by

Working Group Letter Ballot (802.16)

Sponsor Ballot (IEEE and 802)

IEEE 802 Rules

5.1.4 Operation of the Working Group

- The operation of the Working Group has to be balanced between democratic procedures that reflect the desires of the Working Group members and the Working Group Chair's responsibility to produce a standard, recommended practice, or guideline, in a reasonable amount of time.
- Robert's Rules of Order shall be used in combination with these operating rules to achieve this balance.

Robert's Rules

- **In the debate each member has the right to speak twice on the same question on the same day (except on an appeal), but cannot make a second speech on the same question as long as any member who has not spoken on that question desires the floor.**

IEEE 802 Rules

5.1.4.1 Chair's Function

- **The Chair of the Working Group decides procedural issues. The Working Group members and the Chair decide technical issues by vote. The Working Group Chair decides what is procedural and what is technical.**
- **Note: 802.16 Chair delegates the power to make procedural decisions to the presiding Task Group Chair**

Legal and Antitrust

- **Any discussions that relate to the validity or cost of patent use shall be avoided.**
- **Any discussions or any material relating to an ongoing litigation shall be avoided.**
- **Any discussions of pricing or issues that would violate US antitrust laws shall be avoided.**

Patent Policy

- **See full details at 802.16 Web Site**
- IEEE 802.16 operates under the Patent Policy of the IEEE Standards Association, as set forth in Clause 6 of the IEEE-SA Standards Board Bylaws. This policy includes the statement:
 - "IEEE standards may include the known use of patent(s), including patent applications, if there is technical justification in the opinion of the standards-developing committee and provided the IEEE receives assurance from the patent holder that it will license applicants under reasonable terms and conditions for the purpose of implementing the standard."

Patent Policy (continued)

IEEE 802.16 interprets "in the opinion of the standards-developing committee" as "in the opinion of the members of the Working Group." Early disclosure to the Working Group participants of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and to increase the likelihood that the draft publication will be approved for publication. IEEE 802.16 strives to make such information available as soon as possible for consideration by individual members in their voting decisions. However, in its meetings and electronic forums, IEEE 802.16 does not permit discussions concerning the validity or applicability of intellectual property claims.

Patent Procedures

Anyone, whether participating in IEEE 802.16 or not, should notify the Chair of any patents (granted or under application, and regardless of the assignee or the patent nationality) that may cover technology that is under consideration by or has been approved by IEEE 802.16. Such notification should be in written or electronic form (email is preferred) and need not make any statement concerning enforcement or licensing. The Chair will presume that such notification is intended for public release and will, as soon as practical, post it to the web along with other Patent Notices On File with IEEE 802.16. The Chair and the Working Group will take no position regarding the validity or applicability of any patents.

IEEE 802.16 Projects

- Task Group 2: Coexistence (10-66 GHz)
 - “P802.16.2”
 - Study Group 2a: extensions
- Task Group 1: 10-66 GHz
 - “P802.16”
- Task Group 3: 2-11 GHz, licensed
 - “P802.16a”
- Task Group 4: license-exempt, 5-6 GHz
 - “P802.16b”

Task Group 2: Coexistence

- 10-66 GHz
 - Recommended Practice 802.16.2
 - Approved by IEEE Standards Board!
 - Final approval on July 6!
 - Final editorial details before publication
 - Study Group 2a: extensions

Task Groups 3 and 4

- Task Group 3: 2-11 GHz, licensed
- Task Group 4: license-exempt, 5-6 GHz
- Each is an amendment to “P802.16”
 - New Physical Layers (PHYs)
 - Enhancements to 802.16 MAC
- May 2001: agreed to develop joint document
 - Under review; comment resolution this week
- This approach

Charge to Task Groups

- Complete the task on your agenda
 - Update agenda on bulletin board
- Prepare for next meeting
 - Call for Contributions, etc.
- Prepare for Closing Plenary
 - All motions to be in writing
- Document everything
 - submit documents before you leave
- Presentations to server 2 hours in advance
- Prepare input for Session #14 Report