802.16
Working Group on
Broadband Wireless Access
TASK GROUP MEETING

Meeting #0

May 10-12, 1999

Boulder, Colorado

Opening Session

Roger B. Marks, Chair

1 Session Opening

- 1.1   Call to Order
- 1.2   Presentation of Agenda
- 1.3   Roll call
  - Secretary: Scott Marin
  - Stand up and state your name and work location
  - You may mention the name of your company

1.4 Logistics

- Meeting in Millennium Room
- Century Room available
- Meet 1-5 pm Mon;

    8 am- 5pm Tue,Wed

- Continental Breakfast, 7:00 am
  - only for registered attendees
- Coffee: 10 AM
- Lunch: on your own
- Coffee/snack: 3:00 PM
- Dinner: on your own
  - Group dinner on Tuesday? Monday?

2.1 Attendance List

- Attendance has to be recorded for voting membership registration
- participation means present in at least 75% of all meetings in a session

2.2 Registration

- Conference fee ($50) has to be paid through the hotel's front desk
- Covers only meeting expense
  - (food and A/V)
- Fee subsidized by IEEE Microwave Theory and Techniques Society (MTT)
- Failure to pay causes
  - damage to future voting rights

2.3a Membership Rights

- Voting
- Motions and Seconding
- Debating
  - Chair may permit observers to debate
- receive a notice of the meeting
- receive a copy of the minutes
- etc.

2.3b Voting Rights: Earning

– Voting rights accrue to participants of the FIRST Working Group Meeting

– For 802.16, FIRST Working Group Meeting is Meeting #1

   (Montreal, July 6-8)

– WG Voting rights earned by participation in WG meetings during 2 of last 4 plenary meetings

   • Attain voting rights at third meeting

2.3c Voting Rights: Maintaining

– Voting rights can be maintained by participation in 2 plenary meetings within 4 consecutive plenary meetings

– Voting rights may be lost:
  - after failing to pay the conference fee
    – No payment => no credit
    – No voting rights until AFTER zero balance

2.4 Individual & Anti-Trust

- In IEEE standards meetings, membership is by individual
  - you do not represent a company or organization

2.5a IEEE Patent Policy

– The patent policy is set forth in <u>clause 5</u> of the IEEE Standards Board Bylaws

– 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. This assurance shall be provided without coercion and prior to approval of the standard (or reaffirmation when a patent becomes known after initial approval of the standard).

2.5b IEEE Patent Policy

This assurance shall be a letter that is in the form of either

- a) A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement the proposed IEEE standard against any person or entity using the patent(s) to comply with the standard or

- b) A statement that a license will be made available to all applicants without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination

2.5c IEEE Patent Policy

Clause 6.3 of the IEEE Standards Operations Manual

- – Through the Working Group, the sponsor chair *shall request that known patent holders submit a statement* either that the patent does not apply to the standard or that licenses will be made available without compensation or under reasonable rates, terms, and conditions. This assurance shall be obtained without coercion and submitted to the IEEE at the earliest practical time prior to the approval of an IEEE standard. The IEEE encourages early disclosure to the working group of patent information that might be relevant to the standard.

2.6 Other announcements

3 Approval of minutes

- 3.1 Austin meeting Mar 9-11 1999

- 3.2 Matters arising from the minutes

4 Reports

- 4.1 Chair's Status Report

  – Roger Marks, 802.16 Chair

4.1 Chair's Status Report

- **802 Activities**
  - **802.16: Broadband Wireless Access**
    - PAR and Working Group approved, 3/11/99
    - Roger Marks named Interim Chair thru 7/9/99
    - "first order of business is to define charter"
    - Press Release

  - **802.15: Wireless Personal Area Networks**

  - **Other**
    - Initiate Category A Liaison Relationship with ISO/IEC

4.1 Chair's Status Report

- **802 Plenary Tutorials, July (tentative)**

- **Patent Policy** by IEEE Legal, Tom Wettach
  - Monday, 6:30-8pm

- **Networking over Power Lines** (HomeNet)
  - Monday 8-9:30pm

- **10 GigaBit Ethernet** - Jonathan Thatcher
  - Tuesday, 6:30-8pm

- **Giant Frames** - Ted Schrerer
  - Tuesday, 8-9:30pm

4.1 Chair's Status Report

- 802.16 Web Site
  - http://grouper.ieee.org/groups/802/16
  - Meeting info
  - BWA Study Group, Final Report (draft)
  - Document Submisson Template
  - Liaison Area
  - Task Group Areas
    - Call for Contributions; Contribution Index
- Security
  - Password-protected directory available
    - No current use

4.1 Chair's Status Report

- **802.16 Reflector**
  - For 802.16 <u>OFFICIAL BUSINESS</u>
    - e.g., no commercial activities
  - Info linked from 802.16 web site
    - Including attachment
    - Please don't email official contributions
      - Documents will be numbered and posted in PDF
      - Coordinator will email a pointer
  - Not confidential
    - Publicly-available archives on web site
    - Open subscription policy
    - Open submission policy

Chairman's Presentations on 802.16

- IEEE MTT Distinguished Microwave Lecturer
  - IEEE Microwave Theory and Techniques Soc (MTT)
  - "The IEEE 802.16 Working Group on Broadband Wireless Access Standards"
  - April 22, 1999: Denver/Boulder (IEEE MTT/AP)
  - April 27, 1999: Pikes Peak (IEEE ComSoc)
  - May 25, 1999: Baltimore/Washington (MTT)
- Other Conferences
  - IEEE Emerging Technology Symposium on Wireless Communications and System
    - Richardson, Texas, April 12, 1999
  - "LMDS and Fixed Broadband Wireless Access"
    - Arlington, VA, May 24-25, 1999

Chairman's Presentations on 802.16

- ## U.S. National Science Foundation
  - "Last Mile" panel, 4/8/99
  - Panel tasked to report on the "Last Mile" problem of broadband access
  - Marks submitted "Broadband Wireless Access for the First Mile" (http://nwest.nist.gov)

Chairman's Presentations on 802.16

- ## European Institute Roundtable, 5/6/99
  - Talked on "Cooperative International Wireless Standardization"
- ## Panelists:
  - Dr. Bernd Eylert, Chair, UMTS Forum
  - Susan Ness, Commissioner, U.S. Federal Communications Comm.
  - David Hendon, Chairman of the Board, ETSI
  - Mark MacGann, VP of Strategic Affairs, SkyBridge
  - Roger Marks, NIST
  - Lawrence Williams, VP, Teledesic
  - Paola Tonelli, Chair, Operator's Group, UMTS Forum

Chairman's Meetings on 802.16

- April 7: Dale Hatfield
  - Chief, Office of Engineering and Technology
  - U.S. Federal Communications Commission
  - In his office
- discussed BWA standardization
- open to hearing industry concerns
- FCC is intent on removing regulatory barriers, giving wireless an equal opportunity in broadband access
- confident that the FCC will not mandate BWA interoperability standards
- No need to facilitate standardization due to 802.16

Chairman's Publications on 802.16

- "The IEEE 802.16 Working Group on Broadband Wireless Access"
  - IEEE Network, March-April, 1999, p. 4.

- Letter by Roger Marks, writing as Chair of the 802 Study Group on Broadband Wireless Access
  - Inter@ctive Week, March 15, 1999, p. 23.
  - Commented on the magazine's comparison of DSL and cable modem technologies, adding "Of course, we shouldn't forget the alternative of broadband wireless access, which we expect to be a significant competitor, especially once the IEEE 802 Study Group on Broadband Wireless Access (nwest.nist.gov) has settled on interface standards."

1999 IEEE
Radio and Wireless Conference

- RAWCON'99 (http://rawcon.org)
- Denver, Colorado, August 1-4
- Roger Marks, General Chair

- Session on "Broadband Wireless Systems"
- BWA talks

- Keynote Address:
  - Dale Hatfield
  - Chief, Office of Engineering and Technology
  - U.S. FCC

1999 IEEE Radio and Wireless Conference

- Broadband Wireless Access Operator's Forum
- Monday, August 2

- Ray Nettleton, Senior VP & CTO
  Formus Communications, Inc.
- Lou Olsen, Director of Technology
  Development, Teligent, Inc.
- Peter Soltesz, Senior Director, Network Architecture
  & Advanced Technologies
  WinStar Communications, Inc.

1999 IEEE Radio and Wireless Conference

- Panel Session:

- # Wireless Standardization: Players, Stakes, and Opportunities

- Tuesday, August 3

- Panelists:
  - 802.11 Editor
  - 802.15 Chair
  - 802.16 Chair
  - ITU-R JRG 8A/9B Co-Chair
  - Chair, T1P1
  - Chair, UMTS Forum Operator's Group

4 Reports

- 4.2 Liaison Reports
  - ETSI BRAN
    - Paul Khanna
  - ITU-R JRG 8A-9B (Wireless Access Systems)
    - José Costa
    - Meeting July 12-16, Ottawa
  - {National Spectrum Manager's Association}
    - {Larrie Sutliff}

4 Reports

- 4.3 Coexistence Task Group

    – Leland Langston,
      Task Group Coordinator

4 Reports

- 4.4 System Requirements Task Group

  – Gene Robinson,
    Task Group Coordinator

5 Future Meetings

802 Plenary Meetings

- July 5-9:
  - Queen Elizabeth, Montreal, Quebec
  - Voting Rights PLUS Free 802 CD
- November 8-12
  - Hyatt Regency, Kauai, Koloa, HI

Interim Task Group Meetings

- August 5-6: Denver, CO (tentative)
  - 1999 IEEE Radio and Wireless Conference (RAWCON'99): August 1-4

6a Group Organizational Issues

- Task Groups
- How to stimulate contributions
  - Call for Contributions
- Submission rules
  - Mandatory use of templates
  - Deadlines to be on agenda
- document distribution
- web/email privacy: who has access
- Flash ROM

6b Group Organizational Issues

<u>Leadership positions:</u> elections at Meeting #1

- Chair

- Vice Chair/Parliamentarian

- Secretary

- Liaisons
  - ETSI BRAN
  - ITU
  - Other?

- Task Group Coordinators

- Technical Editor, Coexistence Standard

- Technical Editor, Interoperability Standard

7 Review of Contributions

- Contributions are essential
  - 802 is "contribution driven"

- Task Groups called for contributions

- We received important contributions that will drive agenda at this meeting

7a Review of Contributions

Coexistence Task Group

Leland Langston,

Task Group Leader

7b Review of Contributions
System Requirements Task Group

Brian Petry, Editor

8 Agenda for the week

- Coexistence PAR
  - Deadline: June 4 to 802 SEC

- System Requirements Document
  - goal: draft by July 5

- Rules and Procedures
  - Vote during Meeting #1 (July 6-8)