

## **IEEE 802.16h LE Task Group**

### **- Meeting Minutes -**

#### ***Tuesday January 25, 2005, Morning Session 0800-1200***

-- Meeting called to order by chair at 08:13

#### ***Agenda***

Agenda presented by chair who asked for contributions to the agenda.

Agenda updated and approved by unanimous voice vote.

#### ***Selection of Secretary***

The chair called for volunteers for a participant to act as secretary for this session.

Barry Lewis was sole volunteer. Chair asked for the volunteer to be approved by voice vote.

Secretary approved by unanimous voice vote.

#### **PAR Review**

The chair reviewed the final approved PAR. It was considered that the scope might not necessarily limit consideration to systems only in licence-exempt frequency bands.

Interference scenarios previously presented in the Study Group were reviewed

#### ***Attendance***

The chair noted that access to the attendance sign-in page was difficult. In the meantime the group agreed to collect attendance 'manually':

- Marianna Goldhammer, marianna.goldhammer@alvarion.com
- Barry Lewis, blewis@redlinecommunications.com
- Andy Sago, andy.sago@bt.com
- Ambroise Popper, ambroise@sequans.com
- Al Wieczorek, al.wieczorek@motorola.com
- Scott Migaldi, W10265@motorola.com
- Jim Carlo, j.carlo@ieee.org
- Greg Phillips, greg.phillips@airrunner.com
- Guo Qiang Wang, guogiang@nortelnetworks.com
- Ellen Lee, ellenlee@huawei.com
- Keshan Feng, keshanfeng@huawei.com
- Wu Xuyong, wuxuyong@huawei.com
- Le Weijun, leweijan@huawei.com
- Ruslein Zheng, robin@huawei.com
- Richard Yao, richyao@microsoft.com
- Avi Freeman, avif@hexagonltd.com

- Ying-Chang Liang, ycliang@izr.a-star.edu.sg
- Michael Lynch, mlynch@nortelnetworks.com
- Aik Chindapol, aik.chindapol@siemens.com (afternoon)
- Zhonghui Yao, yaoh@huawei.com (afternoon)
- Lee Jian, leejian@huawei.com (afternoon)

## Contribution Review

### **C802.16h-05/01 - Detailed scope of IEEE 802.16h**

Discussed the applicability of specific frequency bands and clarified Licence-Exempt operation to mean “uncoordinated” and that the applicability of the .16h output could be across all frequency bands irrespective of the licensing regime.

Should apply to IEEE802.16-2004 only.

Net-Man are also dealing with Radio Resource Management.

Topics for examination:

Interference detection and prevention.

Interference Scenarios

Creating a “signature” or a framework for identification of interferers.

Primary user properties are defined in regulation.

Examples of interference avoidance techniques, DCS/DFS for example.

Messages .

Management System.

PHY independent mode for transmitting network management address information.

Policies and how to determine clear frequencies.

Interference Reduction Policies

C802.16h-05/01rev1 updated during discussion. Output Document 802.16-05\_003

### **C802.16h-05/02 - Algorithms for distributed interference control**

Contribution presented by Mariana Goldhammer.

An example of distributed co-ordination between systems. A balancing algorithm attempts to balance the C/I values for a series of BS-TS links by adjusting the BS powers. If necessary a dominant interferer will be removed and will require alternative scheduling.

Comments: Consideration of QoS may be needed.

Other algorithms possible and a number of sources highlighted for potential contribution.

## **Existing support in 802.16-2004 for coexistence.**

An informal presentation was given by Marianna Goldhammer detailing the existing messages in the standard that may be useful as a starting point for refinement / enhancements to address the coexistence issues under consideration by the group.

Action: MG agreed to formulate as a formal contribution and upload. C802.16h-05\_003

Meeting adjourned at 11:29

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Meeting reconvened at 14:15

## **Drafting the Initial Table of Contents**

A draft table of contents was compiled based upon the contributions to date and the morning session discussion.

Output document 802.16h-05\_002.

## **Call for Further Contributions**

The call for contributions at the next meeting can be based on the draft table of contents developed at this meeting.

### **Motion**

Motion to adjourn the meeting put forth by:

- Andy Sago

Motion seconded by:

- Barry Lewis

Discussion:

- None

Vote Method:

- Verbal

Vote Results: Unanimous voice vote.

- Motion carried by unanimous vote.

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