

802.16 Liaison Report

Mika Kasslin

802.16 Liaison to 802.11

IEEE 802.16: Overview

- ¥ Working group developing interoperable air interface standards for Fixed Broadband Wireless Access Systems (FBWA)
 - Known also as WirelessMAN™ group
- ¥ The base standard published early this year
 - MAC and PHY for fixed point-to-multipoint BWA systems
 - Tailored for 10-66 GHz licensed bands

IEEE 802.16: Activity

¥ Four ongoing activities

—TGa — PHY&MACamendments

- ¥ Two former task groups (TG3 and TG4) merged together

- ¥ Addresses both licensed and unlicensed bands between 2-11 GHz

 - Original TG4 PAR for unlicensed bands excluded deliberately the 2.4 GHz ISM band

—TG2 —Co-existence group

- ¥ Recommended practice for coexistence of BWA systems

- ¥ RP for 10-66 GHz published 2001

- ¥ Currently addressing 2-11 GHz (primarily licensed bands)

—TGc — Profile task groupfor 10-66 GHz

—Study Group on MBWA

¥ Interim meeting next week 20-24 May in Calgary, Canada

IEEE 802.16a: Overview

- ¥ Amendment to the base 802.16 standard
 - Medium Access Control Modifications and Additional Physical Layer Specifications for 2-11 GHz
 - The latest draft D3 available since late March 2002
- ¥ The resulting standard specifies the air interface of fixed (stationary) broadband wireless access systems and applies to systems operating between 2 and 11 GHz, where such systems are permitted
- ¥ Targeted unlicensed frequency bands include 5.25-5.35 GHz and 5.725-5.825 GHz

IEEE 802.16a: Activity

¥ The plan:

- May 02 interim: Revise the draft and start new WG letter ballot
- July 02: Resolve comments and start Sponsor Ballot with the revised draft

¥ How to implement that?

- Pending call for contributions to fix the holes in the TGa draft D3.0
 - ¥ Submission deadline today, May 17
 - ¥ So far some contributions addressing co-existence in LE bands (e.g. MAC frame structure)

Friendly Reminder

Download the revised TGa draft after the Calgary interim, review it, and feel free to provide comments