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<th><strong>Project</strong></th>
<th>IEEE 802.16 Broadband Wireless Access Working Group <a href="http://ieee802.org/16">http://ieee802.org/16</a></th>
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<tr>
<td><strong>Title</strong></td>
<td>Changes To Sec. 6.2 and 8.3.4.1 Proposed by MAC-PHY Ad Hoc Group</td>
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<tr>
<td><strong>Date Submitted</strong></td>
<td>2001-09-13</td>
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<td><strong>Source(s)</strong></td>
<td>Members of MAC-PHY Ad Hoc</td>
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<td><strong>Re:</strong></td>
<td>802.16.ab-01/01r1</td>
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<td>Call for Comments dated 2001-07-30, specifically the call for MAC-PHY Interface Comments.</td>
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<tr>
<td><strong>Abstract</strong></td>
<td>Proposed Changes to Sec. 6.2 and 8.3.4.1</td>
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<tr>
<td><strong>Purpose</strong></td>
<td>Consider the changes proposed herein for next revision of 802.16.ab-01/01.</td>
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Changes To Sec. 6.2 and 8.3.4.1
Proposed by MAC-PHY Ad Hoc Group

Editor: Jerry Krinock
Radia Communications, Sunnyvale, CA USA

On page 23, delete lines 22-31 because this says to add section 6.2.2.4.3 and 6.2.2.4.3.1 to IEEE P802.16/D4-2001. But there is no section 6.2.2.4, 6.2.2.4.1 or 6.2.2.4.2 in IEEE P802.16/D4-2001. We cannot add a subsection 3 to a nonexistent section.

On page 23, add the following:

At the beginning of each of the three sections 6.2.2.1 MAC Header Formats, 6.2.2.3.3 DL-MAP Message and 6.2.2.3.4 UL-MAP Message, add the following statement:

This section does not apply to MAC which support Sub-11 GHz PHY. Instead see sec. 8.3.4.

Cut out all of pages 24-32. Remove all empty sections involving OFDM and OFDMA. Paste these sections into the beginning of 8.3.4.2.

At the beginning of each of the two sections 6.2.2.3.1 DCD Message and 6.2.2.3.2 UCD Message and 6.2.2.3.4 UL-MAP Message, add the following statement:

This section does not apply to MAC which support Sub-11 GHz Single-Carrier (SC) PHY. Instead see sec. 8.3.4.2.

In sections 6.2.7.7, 6.2.7.8 and 6.2.7.13, all of the sub-subsections are under the subsection "OFDMA PHY", which is incorrect. These sub-subsections are in fact common to all PHY, and we have at this point no text for any of the PHY-specific sub-subsections. Therefore, these sub-subsections should be moved up one level in the hierarchy, out of the OFDMA subsection, and the empty PHY-specific sub-subsections should be eliminated. Note: Yigal Leiba has suggested part of this in Comment 253.

Specifically, the TOC for 6.2.7.7 should read:

6.2.7.7 License Exempt Dynamic Frequency Selection
   6.2.7.7.1 RSSI and CCI measurement of a DL Channel
   6.2.7.7.2 Valid Channels
6.2.7.7.3 Assignment of DL Channel ID’s to RSSI and CCI Measurements
6.2.7.7.4 Registration Procedure
6.2.7.7.5 TLV Configurations for SS Transmitted DFS-REQ Messages
6.2.7.7.6 TLV Configurations for BS Transmitted DFS_REQ Messages
6.2.7.7.7 TLV Configuration Settings for BS Transmitted DFS-RSP Messages

and the TOC for 6.2.7.8 should read:

6.2.7.8 License Exempt Interference Mitigation and Co-Existence
   6.2.7.8.1 Hierarchical Assumption: First Come/First Claim
   6.2.7.8.2 Downlink Radio Frequency Management (DRFM) Messages
   6.2.7.8.3 Reception of the HBS-DRFM

and the TOC for 6.2.7.8.13 should read:

6.2.7.13 Sub 11 GHz Support for Advanced Antenna Technology
   6.2.7.13.1 Architectural Overview
   6.2.7.13.2 Definitions
   6.2.7.13.3 Compatibility model
   6.2.7.13.4 MAC Control functions to support Adaptive Arrays
   6.2.7.13.5 Private uplink/Downlink Channel Descriptor (P-DUCD) Message
   6.2.7.13.6 Private MAP (P-MAP) Message
   6.2.7.13.7 MAC Utility Functions to Support Adaptive Arrays

Delete sec. 6.2.7.10. (Note: 6.2.7.10 will be superceded by 8.3.4.4.3.)

Delete sec. 6.2.7.11. (Note: 6.2.7.11 will be superceded by 8.3.4.4.4.)

Change section 8.3.4.1 to read as follows:

8.3.4 MAC Support of PHY Layers
8.3.4.1 Common
8.3.4.1.1 Duplexing Modes A and B

Two modes of operation are defined:
Mode A: continuous transmission format, FDD
Mode B: burst transmission format, FDD or TDD.

Standards-compliant stations are required to support at least one (A or B) of these modes in the downlink, and Mode B in the uplink.
A Mode B compliant frame can be configured to support either TDM or TDMA transmission formats; i.e., a Mode B burst may consist a single user's data, or a concatenation of several users' data.