Project	IEEE 802.16 Broadband Wireless Access Working Group http://ieee802.org/16 >		
Title	MBS MAP IE Corrections		
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Source(s)	Lei Wang, Sina Zahedi, Yair Bourlas, Wee Peng Goh NextWave Broadband	Voice: [Telephone Number (optional)]] E-mail: lwang@nextwave.com; ybourlas@nextwave.com; wgoh@nextwave.com; szahedi@nextwave.com	
		* <http: affiliationfaq.html="" faqs="" standards.ieee.org=""></http:>	
Re:	802.16 Working Group Letter Ballot #26		
Abstract	This document proposes fixes in MBS MAP IE.		
Purpose	To be discussed and adopted by 802.16 Rev2.		
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MAB MAP IE Corrections

Lei Wang, Sina Zahedi, Yair Bourlas, Wee Peng Goh, NextWave Broadband

Problem statement

With the current MBS MAP allocation specification mechanisms, there is a problem for the new MS to get into the system receiving MBS data. Here's why:

There are multiple places providing specifications for the MBS MAP allocation, e.g., MBS MAP IE (8.4.5.3.12), MBS MAP Data IE / extended data IE / diversity data IE (6.3.2.3.57); but all of those places have a condition-statement , i.e., if the "MBS MAP change indication =1". This means that, if the MBS MAP stays unchanged, there won't be any MBS MAP allocation specification, resulting in no chance for a new MS to start receiving MBS data.

Proposed Correction

As receiving and decoding DL-MAP is something that a new MS has to do in order to get into the system, we propose to remove the condition statement in the MBS MAP IE, i.e., the MBS MAP IE in the DL-MAPs always has the specification for the MBS MAP, so that a new MS can have the necessary initial MBS MAP allocation information before it can work with the MBS MAP allocation mechanism with the condition statement in MBS MAP Data IE / Extended MBS Data IE / MBS Data Time Diversity IE.

Suggested Changes in Rev2/D1

In Rev2/D1, on page 825, replace line 24 to line55 in Table 405 by the following, where the new texts are marked by blue and underlined; the deleted texts are red with strikethrough:

Table 405 —MBS MAP IE

Syntax	Size (bit)	Notes
OFDMA symbol offset	7	The offset of the OFDMA symbol measured in OFDMA symbols from beginning of the DL frame in which the DL-MAP is transmitted. Counting from the frame preamble and starting from 0
MBMS MAP allocationchange indication	1	Used to indicate MBS MAP allocation parameters are included
Reserved	73	Shall be set to zero
-if (DIUC change indication = 1) {	_	_

Reserved	3	_
Boosting	3	Refer to Table 389
DIUC	4	_
No. Subchannels	6	Indication of burst size of MBS MAP message with the number of subchannels
No. OFDMA symbols	6	Indication of burst size of MBS MAP message with the number of OFDMA symbols
Repetition Coding Indication	2	0b00—No repetition coding
		0b01—Repetition coding of 2 used
		0b10—Repetition coding of 4 used
		0b11—Repetition coding of 6 used
-	_	_
} else {		_
DIUC	4	_
	_	