Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**MBS MAP Issue**
Date Submitted	**2005-05-01**
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Re:	IEEE P802.16e/D7
Abstract	
Purpose	Adoption of proposed changes into P802.16e /D7
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MBS MAP Issue
Amir Rubin, Yigal Eliaspur

1 Motivation

1.1 In Multi BS MBS feature the MBS-MAP relevance is currently to data bursts in the current frame. This adds significant real-time and memory requirements to the subscriber. Figure 1 demonstrates the issue.
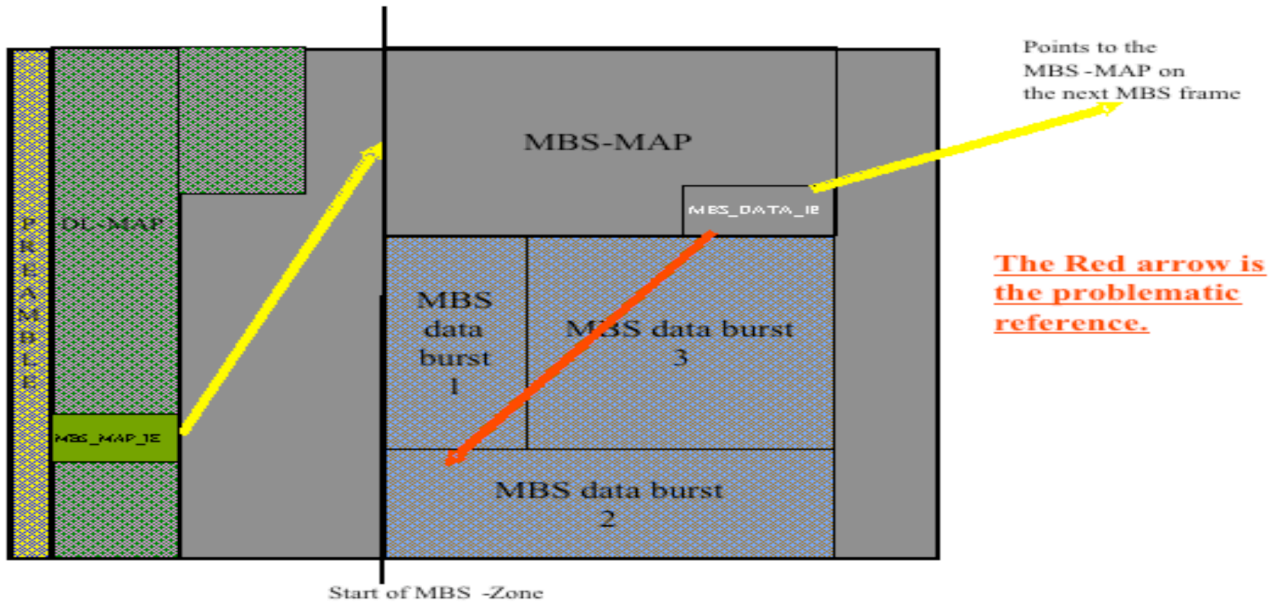
Figure 1

2 Overview of the proposed solution

2.1 This contribution is aimed to decrease the requirements by changing the MBS-MAP relevance to the next appearance of MBS burst with the CIDs appearing in it. Figure 2 shows the proposed solution
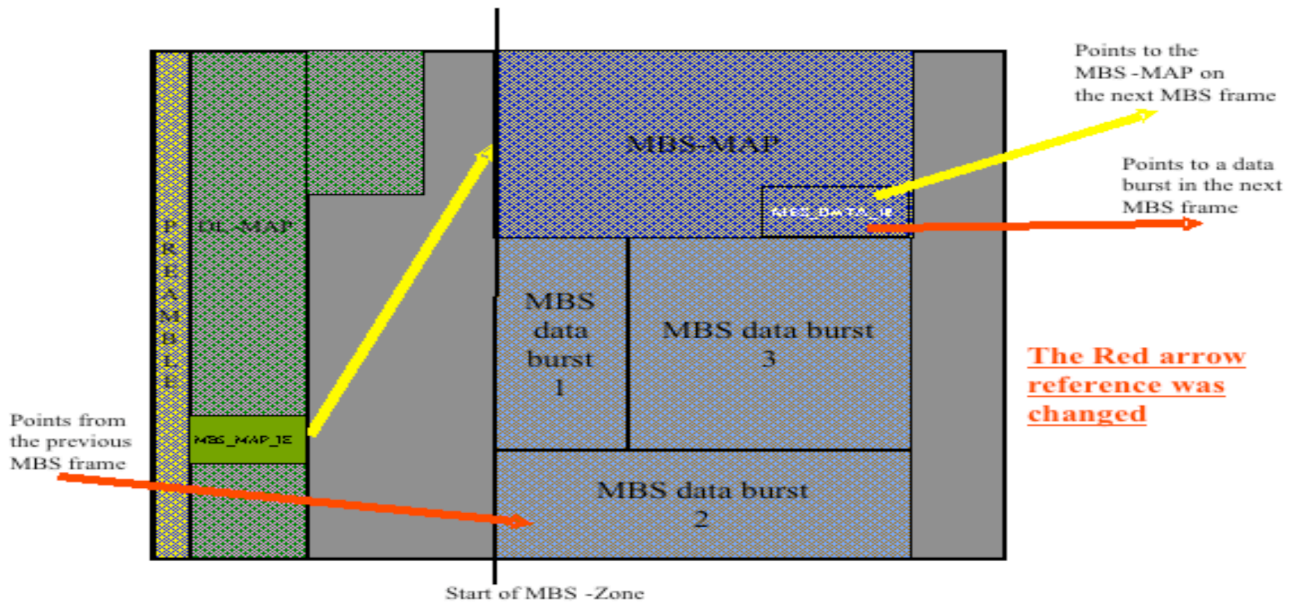

Figure 2

3 Proposed text changes

Table 108t—MBS_DATA_IE

Syntax	Size	Notes
MBS_DATA_IE{		
MBS_MAP Type = 0	4 bits	
Next MBS MAP change indication	1 bits	This indicates whether the size of MBS MAP message of next MBS frame for these Multicast CIDs included in this IE will be different from the size of this MBS MAP message.
No. of Multicast CID	3 bits	12 LSB of CID for multicast
For(i=0; i< No. of Multicast CID; i++){		
Multicast CID	12 bits	
}		
MBS DIUC	4 bits	
OFDMA Symbol Offset	8 bits	OFDMA symbol offset with respect to start of the MBS portion of the next MBS frame with these CIDs.
Subchannel offset	6 bits	OFDMA subchannel offset with respect to start of the MBS portion of the next MBS frame with these CIDs.
Boosting	3 bits	000: normal (not boosted); 001: +6dB; 010: -6dB; 011: +9dB; 100: +3dB; 101: -3dB; 110:-9dB; 111: -12dB;
No. OFDMA Symbols	7 bits	The size of MBS data.
No. Subchannels	6 bits	
Repetition Coding Indication	2 bits	0b00 - No repetition coding 0b01 - Repetition coding of 2 used 0b10 - Repetition coding of 4 used 0b11 - Repetition coding of 6 used
Next MBS frame offset	8 bits	The Next MBS frame offset value is lower 8 bits of the frame offset number in which the BS shall transmit the next MBS frame with these CIDs.
…		
}		