

Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>MBS_MAP_IE PRBS Issue</b>	
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Re:	IEEE P802.16e/D7	
Abstract	For the common MBS transmission the PRBS pattern should be common for all transmitters.	
Purpose	Adoption of proposed changes into P802.16e /D7	
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# MBS\_MAP\_IE PRBS Issue

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## 1 Motivation

1.1 The MBS\_MAP must be transmitted with same RF signal from all BS transmitting it. For the common transmission the PRBS pattern should be common for all transmitters. Currently the 2 PRBS\_id bits are absent from the MBS\_MAP\_IE.

## 2 Overview of the proposed solution

2.1 add the 2 PRBS\_id bits to the MBS\_MAP\_IE.

**Table 285a—Multicast and Broadcast Service MAP IE**

Syntax	(bits)	Notes
MBS_MAP_IE() {	—	—
Extended-2 DIUC	4	MBS_MAP = 0x0A00
Length	4 8	
...		
Macro diversity enhanced	1	0 = Non Macro-Diversity enhanced zone; 1 = Macro-Diversity enhanced zone
If(Macro diversity enhanced = 1){	—	—
Permutation	2	0b00 = PUSC permutation 0b01 = FUSC permutation 0b10 = Optional FUSC permutation 0b11 = Adjacent subcarrier permutation
Idcell	6	—
PRBS_ID	2	—
}	—	—
...		