Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Modification to MOB_SCN-RSP and MOB_SCN-REPORT messages**
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Re:	Response to Sponsor Ballot on IEEE802.16e/D8 document
Abstract	This contribution includes changes that was accepted into D7 in session #37 but not incorporated in D8.
Purpose	To incorporate the text changes proposed in this contribution into the 802.16e/D9 draft.

Modification to MOB-SCN_RSP and MOB-SCN_REPORT Messages

Mary Chion

1. Problem Statement

Modification to MOB-SCN_RSP and MOB-SCN_REPORT Messages

2. Proposed Solutions

3. Specific Text Changes

[Modify the following section:]

6.3.2.3.49 Scanning Interval Allocation Response (MOB_SCN-RSP) message

A MOB_SCN-RSP message shall be transmitted by the BS either unsolicited or in response to an MOB_SCN-REQ message sent by an MS. A BS may MOB_SCN-RSP to start MS scan reporting with or without scanning allocation. A BS may allocate the scanning allocation for MS scanning with Scan type = 0, or MS non-contention Association ranging with Scan type = 1. The message shall be transmitted on the Basic CID

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Table 108i—MOB_SCN-RSP message format

Syntax	Size	Notes
MOB_SCN-RSP_Message_Format () {		
Management Message Type = 55	8	
Report mode	2	0b00 : no report 0b01 : periodic report 0b10 : event triggered report 0b11 : reserved
Scan report period	8	Available when the value of Scan Report is set to 0b01. Scan report period in frames.
reserved	6	Shall be set to zero.
Scan duration	8	In unit of frame. When Scan Duration is set to zero, no scanning parameters are specified in the message. When MOB_SCN-RSP is sent in response to MOB_SCN-REQ, setting Scan Duration to zero denies MOB_SCN-REQ.
if (Scan Duration ==0) {	—	—
HMAC Tuple (21 bytes)	—	
} else {	—	—
Start frame	4	—
Scan_type	1	0: Scanning 1: Association
Reserved	7	Shall be set to zero.

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Interleaving interval		8	Duration in frames
Scan iteration		8	—
~~Report mode~~		~~2~~	~~0b00 : no report~~ ~~0b01 : periodic report~~ ~~0b10 : event triggered report~~ ~~0b11 : reserved~~
~~Scan report period~~		~~8~~	~~Available when the value of~~ ~~Scan Report is set to 0b01. Scan~~ ~~report period in frames.~~
reserved		~~2~~3	Shall be set to zero.
N_Recommended_BS_Scanning		4	—
For (j=0; j<N_Recommended_BS_Scanning; j++) {		–	
Recommended BS ID Scanning		48	BS IDs of Available BS for Association
}			
.....			
}			

4. References

[1]   IEEE 802.16- 2004 IEEE Standards for local and metropolitan area networks part 16: Air interface for fixed broadband wireless access systems
[2]   IEEE P802.16e-D8-2005