

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.	
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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	
<u>Report mode</u>	<u>2</u>	<u>0b00 : no report</u> <u>0b01 : periodic report</u> <u>0b10 : event triggered report</u> <u>0b11 : reserved</u>
<u>Scan report period</u>	<u>8</u>	<u>Available when the value of</u> <u>Scan Report is set to 0b01. Scan</u> <u>report period in frames.</u>
<u>reserved</u>	<u>6</u>	<u>Shall be set to zero.</u>
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.

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	23	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