

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Fix for MOB_SCN-RSP with scan duration = 0	
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Re:	P802.16-2004/Cor2/D2	
Abstract	This document proposes a fix to an inconsistency related to the MOB_SCN-RSP message when scan duration = 0	
Purpose	Adoption into P802.16-2004/Cor2/D3	
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Fix for MOB_SCN-RSP with scan duration = 0

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Problem statement

On page 235 of “IEEE Std 802.16e-2005”, in the middle of the second paragraph, the following is stated:

'A value of zero for Scan duration in MOB_SCN-RSP shall indicate the request for an allocation of scanning interval is denied. The MOB_SCN-RSP message shall either grant the requesting MS a scanning interval that is at least as long as requested by that MS, or deny the request. A value of zero for Duration in MOB_SCN-RSP shall indicate the request for an allocation of scanning interval is denied. The serving BS may also send MOB_SCN-RSP message unsolicited. For unsolicited MOB_SCN-RSP message, a value of zero for Scan duration is used to trigger MS to report scanning result, without explicitly assigning scanning intervals to the MS. In this case, the MS shall only update Report Mode, Report Period and Report Metric based on the information received in MOB_SCN-RSP message.'

On page 128 of “IEEE Std 802.16e-2005”, in table 109i, the MOB_SCN-RSP message includes the **Report mode** field, which may be set to *Periodic report* or *Event-triggered report*. In either of these settings it is not clear what the MS is supposed to do when the **Scan duration** field is set to 0. Should it report (periodically) even though no scanning has taken place?

Suggested Remedy

In order to solve this problem reporting should not be requested when no scanning is allocated.

Disable the report parameters when **Scan duration** field is set to 0 by removing the lines containing **Report mode**, **Report period** and **Report metric** under the line starting with ‘if (Scan Duration !=0) {’.