

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Fixes for Lost of MOB_BSHO-REQ Messages	
Date Submitted	2008-03-10	
Source(s)	Chi-Chen Lee, I-Kang Fu MediaTek Inc. No. 1, Dusing Rd. 1 Science-Based Industrial Park, Hsinchu, Taiwan 300	chichen.lee@mediatek.com IK.Fu@mediatek.com
Re:	IEEE 802.16 Letter Ballot Recirculation #26b, on P802.16Rev2/D3, as announced in IEEE 802.16-08/006.	
Abstract	In IEEE 802.16 Rev2/D3, there is no definition on MS's/BS's behavior when the message MOB_BSHO-REQ message is lost. This contribution explains the potential problems and proposes a resolution to resolve this confusion.	
Purpose	Accept the proposed text modification to IEEE 802.16 Rev2	
Notice	<i>This document does not represent the agreed views of the IEEE 802.16 Working Group or any of its subgroups. It represents only the views of the participants listed in the "Source(s)" field above. It is offered as a basis for discussion. It is not binding on the contributor(s), who reserve(s) the right to add, amend or withdraw material contained herein.</i>	
Release	The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE's name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE's sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16.	
Patent Policy	The contributor is familiar with the IEEE-SA Patent Policy and Procedures: < http://standards.ieee.org/guides/bylaws/sect6-7.html#6 > and < http://standards.ieee.org/guides/opman/sect6.html#6.3 >. Further information is located at < http://standards.ieee.org/board/pat/pat-material.html > and < http://standards.ieee.org/board/pat >.	

Fixes for Lost of MOB_BSHO-REQ Messages

Chi-Chen Lee, I-Kang Fu

MediaTek Inc.

1 Problem Statement

Current standard is not clear about what should BS behave if MOB_BSHO-REQ message is lost. The problematic scenario is described in Figure 1. If the MOB_BSHO-REQ message is lost, the MS is still in Normal operation but serving BS considers the MS is going to perform HO and expect MOB_HO-IND message from the MS. If the serving BS does not receive MOB_HO-IND message from the MS, it may consider the MS is performing HO and may stop DL and UL scheduling after certain time.

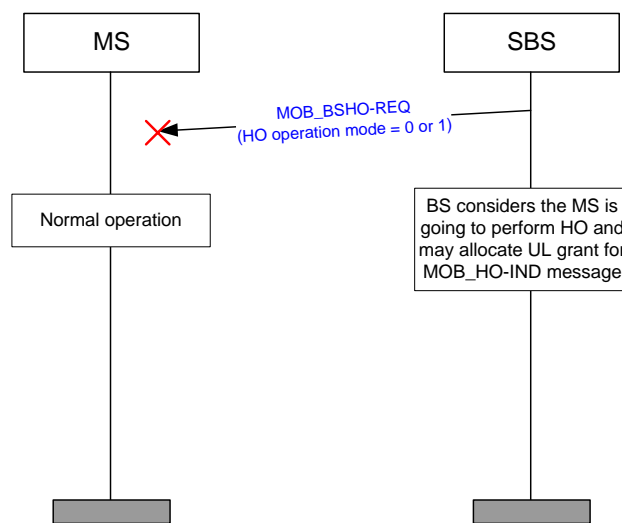


Figure 1 – Lost of MOB_HO-IND (reject) message

2 Suggested Remedy

The suggested remedy is to define the mechanism to detect the lost MOB_BSHO-REQ message.

3 Suggested Changes in Rev2/D3

-----Start of the Text-----

[In Rev2/D3, line 64 on page 432, section 6.3.22.2.2, insert the following text]

After BS transmits MOB_BSHO-REQ, BS shall not transmit any MOB_BSHO-REQ prior to expiration of timer BS handover retransmission timer. BS shall deactivate timer BS handover retransmission timer on reception of MOB_HO-IND message from MS. If the BS handover retransmission timer is expired and the BS

does not receive MOB_HO-IND message from MS, the BS may retransmit the MOB_BSHO-REQ message or react as if a MOB_HO-IND message has been received with HO_IND_type indicating serving BS release.

[InRev2/D3, table 524, insert the following text]

System	Name	Time reference	Minimum value	Default value	Maximum value
BS	<u>BS handover retransmission timer</u>	Maximum duration that BS shall wait to receive MOB_HO-IND message from MS.	-	-	-

-----End of the Text-----