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 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.

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
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.

![Diagram](image)

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

[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]

<table>
<thead>
<tr>
<th>System</th>
<th>Name</th>
<th>Time reference</th>
<th>Minimum value</th>
<th>Default value</th>
<th>Maximum value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS</td>
<td>BS_handover_retransmission_timer</td>
<td>Maximum duration that BS shall wait to receive MOB_HO-IND message from MS.</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

--- End of the Text ---