2004-06-08 IEEE C802.16e-04/xx

Project	IEEE 802.16 Broadband Wireless Access Working Group http://ieee802.org/16 >
Title	BS initiated Handover with early scanning
Date Submitted	2004-06-07
Source(s)	Yongho Kim, Kihyoung Cho LG Electronics,Inc. 533,Hogye-1dong,Dongan-gu, Anyang-shi,Kyongki-do,Korea Voice: 82-31-450-2945 Fax: 82-31-450-7912 [mailto: ronnykim@lge.com, kihyoung@lge.com]
Re:	This is a response to a Call for Comments IEEE802.16e Handover Adhoc.
Abstract	In this contribution, a method of enhancing BS initiated handover with early scanning is provided.
Purpose	This document is submitted for review by 802.16e Working Group members
Notice	This document has been prepared to assist IEEE 802.16. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) 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 and Procedures	The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures http://ieee802.org/16/ipr/patents/policy.html , including the statement "IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard." Early disclosure to the Working Group of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and increase the likelihood that the draft publication will be approved for publication. Please notify the Chair mailto:chair@wirelessman.org > as early as possible, in written or electronic form, if patented technology (or technology under patent application) might be incorporated into a draft standard being developed within the IEEE 802.16 Working Group. The Chair will disclose this notification via the IEEE 802.16 web site http://ieee802.org/16/ipr/patents/notices >.

2004-06-08 IEEE C802.16e-04/xx

BS initiated Handover with early scanning

Yongho Kim, Kihyoung Cho LG Electronics

1. Introduction

The main advantage of the MSS assisted handover is that the MSS assisted handover allows more flexibility with regard to future modification of the system. To support the MSS assisted handover, the MSS should measure the CINR of neighbor BSs, which is the basis for the BS's decision whether to make an MSS perform handover or not. With the BS's decision, which is based on the MSS's CINR measurement of the neighbor BS, the MSS can perform handover faster than the BS initiated handover without the information of CINR from neighbor BSs, because it is not necessary for the MSS to scan neighbor BSs after MOB-BSHO-REQ message from serving BS. In

addition, not all target BSs has to reserve resource for the MSS, because the serving BS is already aware of the information that which target BS has better channel condition with the MSS.