

Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>HO Overview Section Cleanup 2 – Cell Selection Section</b>	
Date Submitted	<b>2004-03-08</b>	
Source(s)	Phillip Barber Broadband Mobile Technologies, Inc. 8302 Sebastian Inlet Frisco, Tx 75035	Voice: +1 (972) 365-6314 Fax: +1 (925) 396-0269 <a href="mailto:pbarber@BroadbandMobileTech.com">[mailto:pbarber@BroadbandMobileTech.com]</a>
Re:	Response to IEEE 802.16e-04/06 (Call for Contributions on IEEE 802.16e/D1)	
Abstract	HO Overview Section Cleanup 2 – Cell Selection Section	
Purpose	Correct overview section flow and language in HO Overview Section	
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 < <a href="http://ieee802.org/16/ipr/patents/policy.html">http://ieee802.org/16/ipr/patents/policy.html</a> >, 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 < <a href="mailto:chair@wirelessman.org">mailto:chair@wirelessman.org</a> > 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 < <a href="http://ieee802.org/16/ipr/patents/notices">http://ieee802.org/16/ipr/patents/notices</a> >.	

## HO Overview Section Cleanup 2

Phillip Barber

Broadband Mobile Technologies

*Problem:*

As currently defined, mechanics for hand-over are incomplete or poorly defined. Elements are out of order.

*Remedy:*

Revise hand-over process overview to more logical format and increase language clarity.

*Remedy 1:*

[Modify 1.4.1.2.2.1 Cell Selection, page 10&11, lines 60-5, relocate modified/normative text for section to section 6.4 Data/Control Plane; editor will make appropriate allocation of numbering (??) for subsection:]

**1.4.1.2.2.16.4.??1 Cell Selection**

Cell selection refers to the process of an MSS Scanning and/or Ranging one or more BS in order to determine suitability, along with other performance considerations, for network connection or hand-over. is a terminology used to refer to situations where an MSS leaves a BS before getting to the normal operation state. MSS may incorporate information acquired from a MOB\_NBR-ADV message to give insight into available Neighbor BS for cell selection consideration. If currently connected to a Serving BS, an MSS shall schedule scanning intervals or sleep-intervals to conduct Cell Selection for the purpose of evaluating MSS interest in hand-over to potential Target BS. Such procedure does not involve termination of existing connections to a Serving BS and their re-opening in a Target BS, nor does it change the status of any existing connections, or establish new ones. If ranging a Target BS for hand-over, any newly assigned basic and primary CIDs are specific to the Target BS and do not replace or supplant the basic and primary CIDs the MSS employs in its communication with its Serving BS. An MSS may perform a cell selection if such an action is necessary with respect to its PHY signal quality. In such a case the MSS shall restart the initial re-entry sequence or the HO sequence as applicable. No action is required from the BS during an cell selection.