

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Proposed Updates to Handoff Section in Draft IEEE 802.16m Evaluation Methodology Document	
Date Submitted	2007-05-03	
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Re:	IEEE 802.16m-07/014r1– Call for Comments on Draft 802.16m Evaluation Methodology Document	
Abstract	This document contains proposed text for the draft evaluation methodology for IEEE 802.16m technical proposals.	
Purpose	For discussion and approval by TGm	
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In order to maintain consistency with the antenna orientation defined in Figure 22.2-2, the following text in section 9.1.1. is proposed to replace the text in section 39.1.1. of IEEE C802.16m-07/080r1.

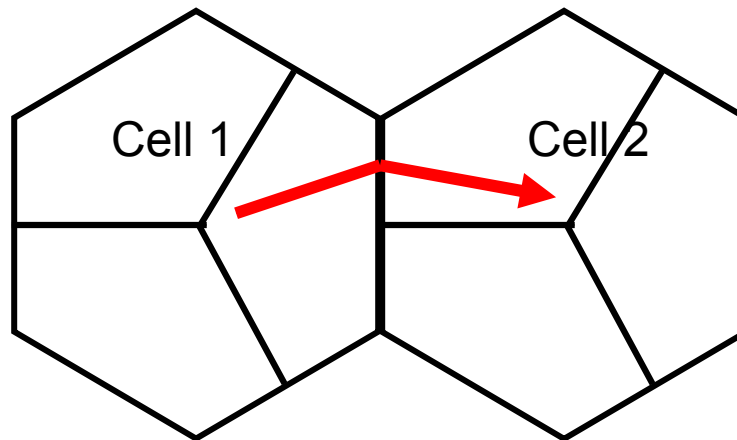
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59.1.1. Trajectories

6The movement of the single MS is constrained to one of the trajectories defined in this
7section. More detailed and realistic mobility models may be considered.

89.1.1.1. Trajectory 1

9In this trajectory, the MS moves from Cell 1 to Cell 2 along the arrow shown in Figure
109.1.1.1-1. The trajectory starts from the center of Cell 1 to the center of Cell 2 while
11passing through the midpoint of the sector boundaries as shown in Figure 9.1.1.1-1.
12The purpose of this trajectory is to evaluate handover performance in a scenario where
13the signal strength from the serving sector continuously decreases whereas the signal
14strength from the target sector continuously increases.



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Figure 9.1.1.1-1: Trajectory 1

189.1.1.2. Trajectory 2

19In this trajectory, the MS moves from Cell 1 to Cell 2 along the arrow shown in Figure
209.1.1.2-2. The MS moves along the sector boundary between Cell 1 and Cell 2 until the
21midpoint of the cell boundary between Cell 1 and Cell 2. The purpose of this trajectory is
22to evaluate handover performance when the MS moves along the boundary of two
23adjacent sectors.

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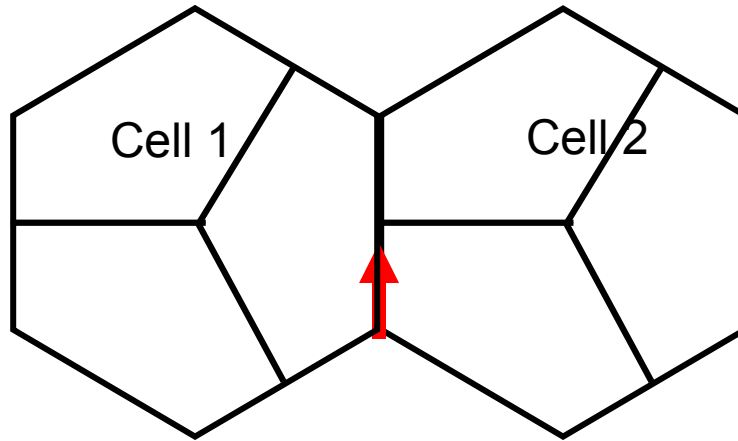


Figure 9.1.1.2-2: Trajectory 2

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59.1.1.3. Trajectory 3

6 In this trajectory, the MS moves from Cell 1 to Cell 2 along the arrow shown in Figure
7 9.1.1.3-3. The MS starts from the center of Cell 2, moves along the boundary of two
8 adjacent sectors of Cell 2 and towards the center of the Cell 1. The purpose of this
9 trajectory is to evaluate a handover performance in the scenario where the MS
10 traverses multiple sector boundaries.

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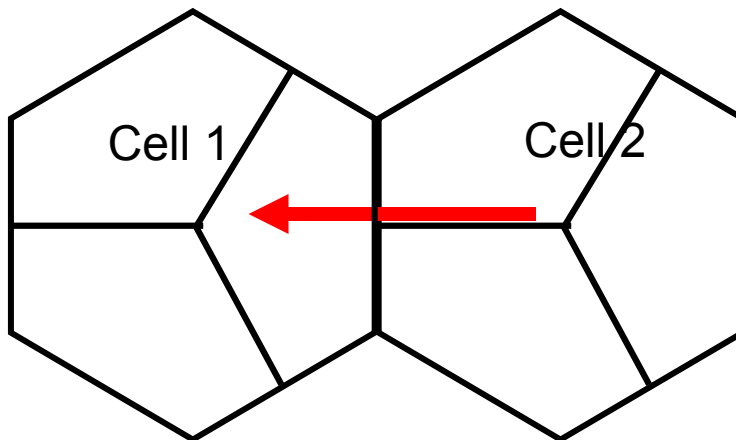


Figure 9.1.1.3-3: Trajectory 3

In order to maintain consistency with the antenna orientation defined in Figure 22.2-2, Figure 9.1.3-4, is proposed to replace the figure 9.1.3-1 in section 9.1.3. of 3IEEE C802.16m-07/080r1.

9.1.3. Cell Topology

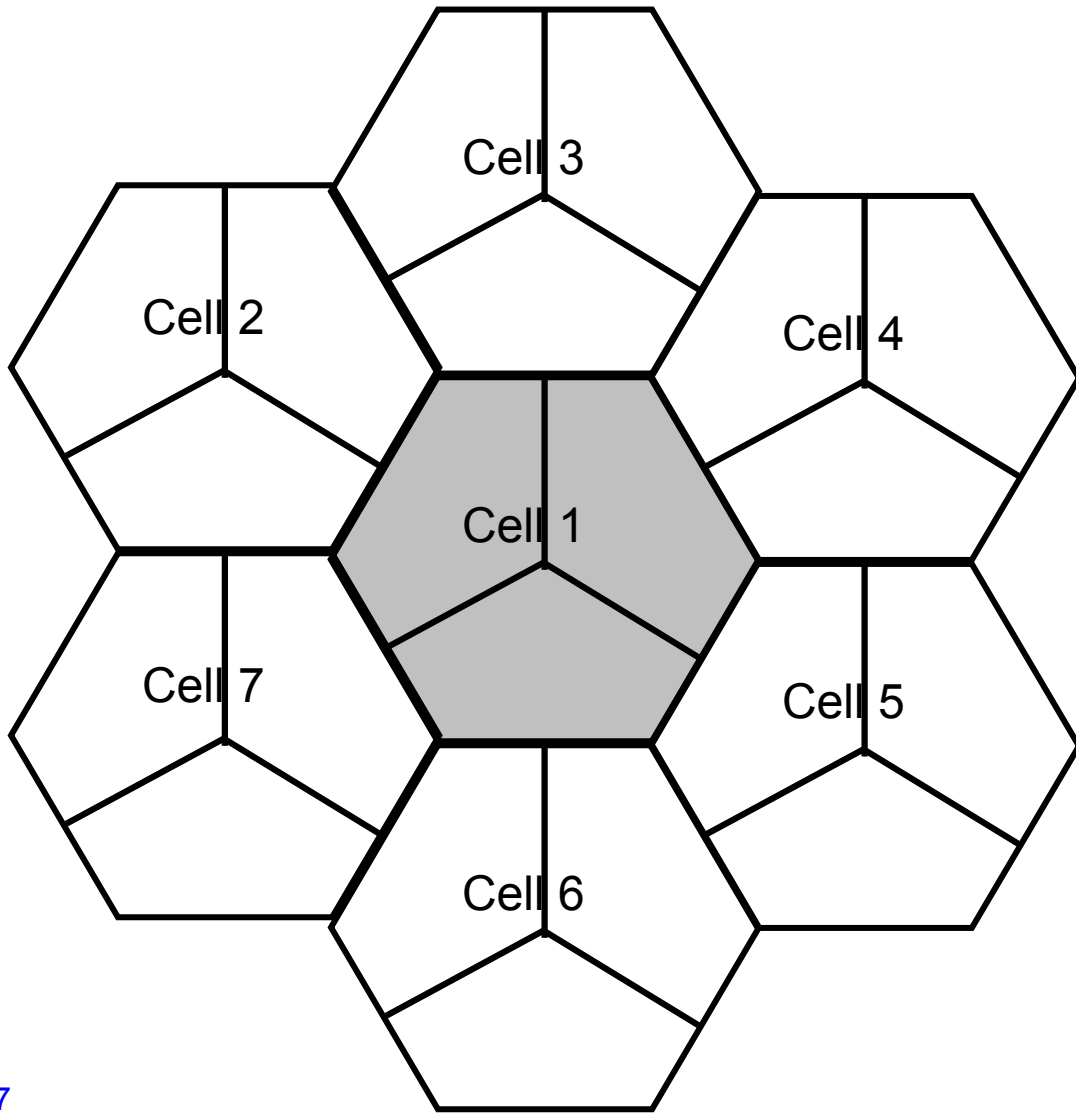


Figure 9.1.3-4: 7 Cell Topology