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Project	IEEE 802.16 Broadband Wireless Access Working Group http://ieee802.org/16 >		
Title	Input on 802.16m Deployment-F	ployment-Related Requirements (Section 8.0)	
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Re:	Call For Contributions on Requirements for P802.16m – Advanced Air Interface		
Abstract	This contribution provides a set of Deployment-Related Requirements for the P802.16m Advanced Air Interface amendment, based on the initial Draft Requirements document IEEE 802.16m-07/002.		
Purpose	This document is submitted in response to the Call For Contributions on Requirements for P802.16m – Advanced Air Interface, dated 2007-01-29, issued by the 802.16 Working Group.		
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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>.

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Input on Deployment-Related Requirements for 802.16m

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Abstract

This contribution provides a set of Deployment-Related Requirements for the P802.16m Advanced Air Interface amendment. These requirements address section 8.0 of the Draft Requirements document IEEE 802.16m-07/002.

Text to be Added

Insert the following text:

8.0 Deployment-Related Requirements

8.1 Legacy Support

The IEEE 802.16m standard shall be compatible with existing 802.16e OFDMA modes such that the same base station and RF channel may support both 802.16e and 802.16m compatible mobile stations at the same time.

The IEEE 802.16m standard shall enable 802.16m compatible mobile stations to operate in one or more of the 802.16e OFDMA modes (including the mandatory modes), however it shall not be mandatory that every 16m mobile station also support any or all of the 16e modes.

The IEEE 802.16m standard shall enable 802.16m compatible base stations to operate in one or more of the 802.16e OFDMA modes (including the mandatory modes), however it shall not be mandatory that every 16m base station also support any or all of the 16e modes.

8.2 Spectrum Requirements

The IEEE 802.16m standard shall enable systems to be deployed in all spectrum bands currently utilized for 802.16e systems.

The IEEE 802.16m standard shall support TDD operation and be deployable in single spectrum blocks enabling channel bandwidths of 5, 10 and 20 MHz.

The IEEE 802.16m standard shall provide MAC and PHY support to enable Flexible Spectrum Use (FSU) between different IEEE802.16m systems and where possible, between different IMT-Advanced systems.

8.3 System Architecture

The IEEE 802.16m standard shall support in-band base station backhaul.

The IEEE802.16m standard shall support in-band multi-hop relay radio link in all cell types supported within the IEEE802.16m standard.

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The IEEE802.16m standard shall support legacy IEEE802.16j relay stations.