Project	**IEEE 802.16 Broadband Wireless Access Working Group** <<http://ieee802.org/16>>	
Title	**Relay Frequency Reuse Scheme**	
Date Submitted	**2009-03-11**	
Source(s)	Alexander Maltsev, Jerry Sydir, Andrey Pudeyev, Alexey Davydov, Vadim Sergeyev, Honggang Li, Rui Huang, Ozgur Oyman	<u>alexander.maltsev@intel.com</u> <u>jerry.sydir@intel.com</u>
	Intel Corporation	
	Eldad Zeira, Ron Murias	Eldad.zeira@interdigital.com
	Interdigital Communications LLC	*<<http://standards.ieee.org/faqs/affiliationFAQ.html>>
Re:	SDD Change Request	
Abstract	This contribution specifies Relay Frequency Reuse scheme	
Purpose	For consideration and adoption into the 16m SDD document.	
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 <<http://standards.ieee.org/guides/opman/sect6.html#6.3>>. Further information is located at <<http://standards.ieee.org/board/pat/pat-material.html>> and <<http://standards.ieee.org/board/pat>>.	

Relay Frequency Reuse scheme

Alexander Maltsev, Jerry Sydir, Andrey Pudeyev, Alexey Davydov, Vadim Sergeyev
Intel Corporation

Relay Frequency Reuse scheme

Introduction

The latest version of the IEEE802.16m SDD [1] specifies interference mitigation techniques that can be used between ABSs. The SDD also specifies support of ARS in the cell sector. However, no mechanism is specified to control interference level within relay-enabled sector.

This contribution proposes that interference mitigation techniques can be used by the ABS and ARSs within a sector.

Text Proposal

[Insert the following text into section 15 of the SDD]

15.4.x Interference Mitigation Support for Relay

Interference mitigation techniques described in section 20 may also be used between the ABS and ARSs within a sector under the control of the ABS.