
Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Extend MIMO features for scalable OFDMA modes	
Date Submitted	2004-05-17	
Source:	Wen Tong, Peiying Zhu, Mo-Han Fong, and Brian Johnson Nortel Networks 3500 Carling Avenue Ottawa, ON. K2H 8E9 CANADA	Voice: (613)-763-1315 Fax: (613)-765-7723 wentong@nortelnetworks.com
Re:	IEEE 802.16e D2 Draft	
Abstract	This contribution proposes changes to OFDMA PHY description in the 802.16e D2 Draft	
Purpose	To incorporate the changes here proposed into the 802.16e D2 draft.	
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 >.	

Extend MIMO features for scalable OFDMA modes

1 Background

MIMO features have been enhanced in the IEEE802.16REVd 2k OFDMA modes. We propose to extend the MIMO features into other OFDMA FFT sizes with both PHY and MAC supports.

2 Scope

The extension of the MIMO capabilities to other FFT sizes shall includes the complete feature set defined for 2k modes.

3 Text Proposal

The detailed text proposal will be provided based on the sub-channel structures associated with different FFT sizes.