

Project	IEEE 802.16 Broadband Wireless Access Working Group http://ieee802.org/16
Title	Ranging enhancement for 128 FFT mode
Date Submitted	[2004-07-06]
Source(s)	Hassan Yaghoobi, Voice: 408-545-6162, mailto: hassan.yaghoobi@intel.com
	Intel Corporation CHP3-105 350 East Plumeria Dr. San Jose, CA 95134
Re:	Supporting document for recirculation ballot #14b.
Abstract	In OFDMA PHY, the total number of available subcarriers for uplink PUSC and AMC are 96 which is less than 144 needed to accommodate ranging and bandwidth request codes. This contribution propose a solution to this problem.
Purpose	To adopt the enhancements to OFDMA PHY in P802.16e/D3 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 .

1 1 Introduction

- 2 In OFDMA PHY, the total number of available subcarriers for uplink PUSC and AMC are 96 which is
- less than 144 needed to accommodate ranging and bandwidth request codes.

4 2 Proposed Text Changes

5 3 References

- 6 [1] IEEE P802.16-REVd/D5-2004 Standard for Local and metropolitan area networks Part 16: Air Interface for
- 7 Fixed Broadband Wireless Access Systems
- 8 [2] IEEE P802.16-REVe/D3-2004 Standard for Local and metropolitan area networks Part 16: Air Interface for
- 9 Fixed Amendment for Physical and Medium Access Control Layers for Combined Fixed and Mobile Operation in
- 10 Licensed Bands