

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Comments on SDD Precoding technique	
Date Submitted	2009-04-24	
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Re:	Category: SDD comments / Area: Chapter 11 (PHY) "Comments on SDD 11 PHY"	
Abstract	Comments on SDD Precoding technique	
Purpose	To be discussed and adopted by TGM for the 802.16m SDD.	
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Comments on SDD Precoding technique

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1. Introduction

This contribution provides the corrected SDD text proposal to Precoding technique. In 11.8.2.2.1, the equation has error and has been corrected in red as in the following corrected text.

2. Proposed SDD Text Modification

[In IEEE 80216m-08_003r8, Section 11.8.2.2.1, Replaced by the following corrected text]

=====Start of Proposed Text=====

11.8.2.2.1 Precoding technique

The Equation 10 is error.

$$r_{i,f} = H_{i,f} \sum_{j=1}^K v_{j,f} x_{j,f} + n_{i,f}$$

It should be:

$$r_{i,f} = \sum_{j=1}^K H_{i,f}^j v_{j,f} x_{j,f} + n_{i,f}$$

where K is the number of the allocated users, $\mathbf{V}_{j,f}$ is the precoding vector of the f -th subcarrier for the transmit signal to the j -th MS, $\mathbf{x}_{j,f}$ is the transmit signal of the f -th subcarrier to the j -th MS and $\mathbf{n}_{i,f}$ is the noise of the f -th subcarrier in the j -th MS and $H_{i,f}^j$ is the channel response for the f -th subcarrier from the j -th transmitted MS to the i -th received MS.

=====End of Proposed Text=====