Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Correction to number of subcarriers per subchannel for 2048-FFT (PUSC)**
Date Submitted	**2006-09-15**
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Re:	
Abstract	Correction to number of subcarriers per subchannel for 2048-FFT (PUSC)
Purpose	The contribution is to correct the number of subcarriers per subchannel for 2048-FFT uplink subcarrier allocations in case of PUSC.
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Correction to number of subcarriers per subchannel for FFT-2048 (PUSC)
Prince Arora

Introduction

This contribution is to correct the number of subcarriers per subchannel for FFT 2048 in case of PUSC. The proposed changes reflects the correct number of subcarriers per subchannel in the OFDMA uplink subcarrier allocation table and specify the permutation used.

Detailed Text Changes

Modify text in section 8.4.6.2

The uplink supports 70 subchannels for PUSC permutation, and 96 subchannels for optional PUSC permuation. ~~Each~~ In PUSC allocation, transmission uses ~~48~~ 24 data carriers as the minimal block of processing. Each new transmission for the uplink commences with the parameters as given in Table 313 for PUSC permutation, and with the parameters as given in Table 315 for optional PUSC permutation.

Modify Table 313.

Table 313 – 2048-FFT OFDMA uplink subcarrier allocations for PUSC

Parameter	Value	Notes
Number of dc subcarriers	1	Index 1024
Nused	1681	Number of all subcarriers used within a symbol
Guard subcarriers: Left, Right	184, 183	-
TilePermutation	6, 48, 58, 57, 50, 1, 13, 26, 46, 44, 30, 3, 27, 53, 22, 18, 61, 7, 55, 36, 45, 37, 52, 15, 40, 2, 20, 4, 34, 31, 10, 5, 41, 9, 69, 63, 21, 11, 12, 19, 68, 56, 43, 23, 25, 39, 66, 42, 16, 47, 51, 8, 62, 14, 33, 24, 32, 17, 54, 29, 67, 49, 65, 35, 38, 59, 64, 28, 60, 0	Used to allocate tiles to subchannels
Nsubchannels	70	-
~~Nsubcarriers~~ Ntiles	~~48~~ 420	-
~~Ntiles~~Number of subcarriers per tile	~~420~~ 4	Number of all subcarriers used within tile
Tiles per subchannel	6	-