Project: IEEE 802.16 Broadband Wireless Access Working Group

Title: 4-antenna MIMO pilot allocation for PUSC

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Re: Call for Reply Comments regarding the Maintenance Task Group Comment Report 80216maint-04_09.zip

Abstract: In this contribution, we propose to clarify the 4-antenna MIMO pilot allocation for PUSC

Purpose: The contribution should be considered by Maintenance group within comment resolution procedure

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4-antenna MIMO pilot allocation for PUSC

1 Proposed text change

Modify the following text starting at line 39 on page 588.

---------- Start Text-----------------
For this configuration the basic cluster structure is changed as indicated in Figure 251 to accumulate the transmission from 4 antennas (pilots for antennas 2/3 override data subcarriers in the even symbols, switching and erasing of the data subcarriers shall be performed after constellation mapping, therefore maintaining all the encoding scheme and the subchannel allocation scheme).
---------- End Text-----------------

Insert the following section before Figure 251:
---------- Start Text-----------------
The pilot locations in PUSC cluster shall obey the following rule:

PilotsLocation = PUSC_Pilot_Location + 4 \cdot (\text{floor}(\text{PUSC SymbolNumber}/2) \mod 2)

where PUSC SymbolNumber counts from 0 at the starting of the relevant STC zone. PUSC_Pilot_Location = 0,1,8,9 is the frequency offset of the pilot carriers in each cluster.
---------- End Text-----------------

Change Figure 251 in section 8.4.8.2.1

---------- Start Text-----------------

Figure 251 –Cluster Structure
End Text