

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Corrected pilot allocation for 4 BS transmit antennas	
Date Submitted	2004-11-12	
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Re:		
Abstract	Pilot allocations for 4 transmit antennas in optional FUSC and Band AMC	
Purpose	Adoption of proposed changes into P802.16e Crossed-out indicates deleted text, <u>underlined blue indicates new text change to the Standard</u>	
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2 Specific Text Changes

[Delete Fig 251c in section 8.4.8.3.2]

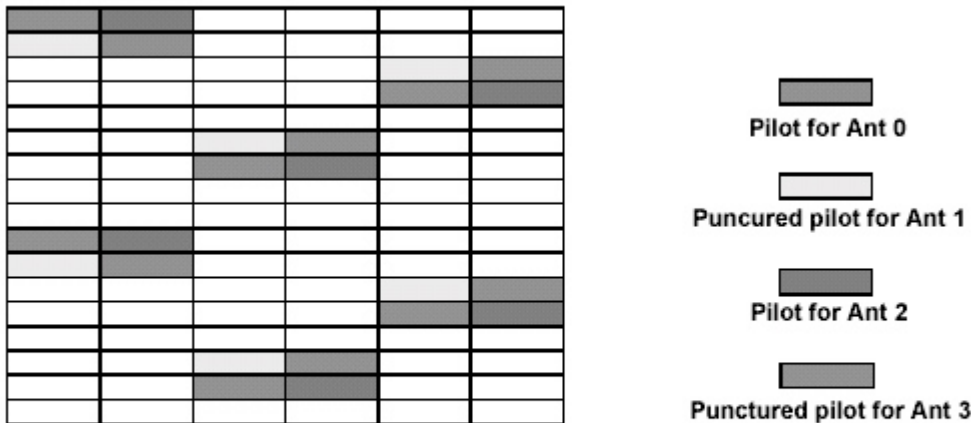


Figure 251c—Pilot allocation for 4-antenna BS for the optional FUSC and the optional AMC zones

[Replace Fig 251c in section 8.4.8.3.2]

For 4-antenna base station (BS), pilot pattern is shown in Figure 1. The pilots has a periodicity of 9 in frequency axis, and a periodicity of 2 in time axis. The locations of the pilot tone is interleaved to maximize the uniformity of the distribution in freq-time plane. The periodic placement makes the interpolation and tracking easier. The pilot density of each antenna is 1/18.

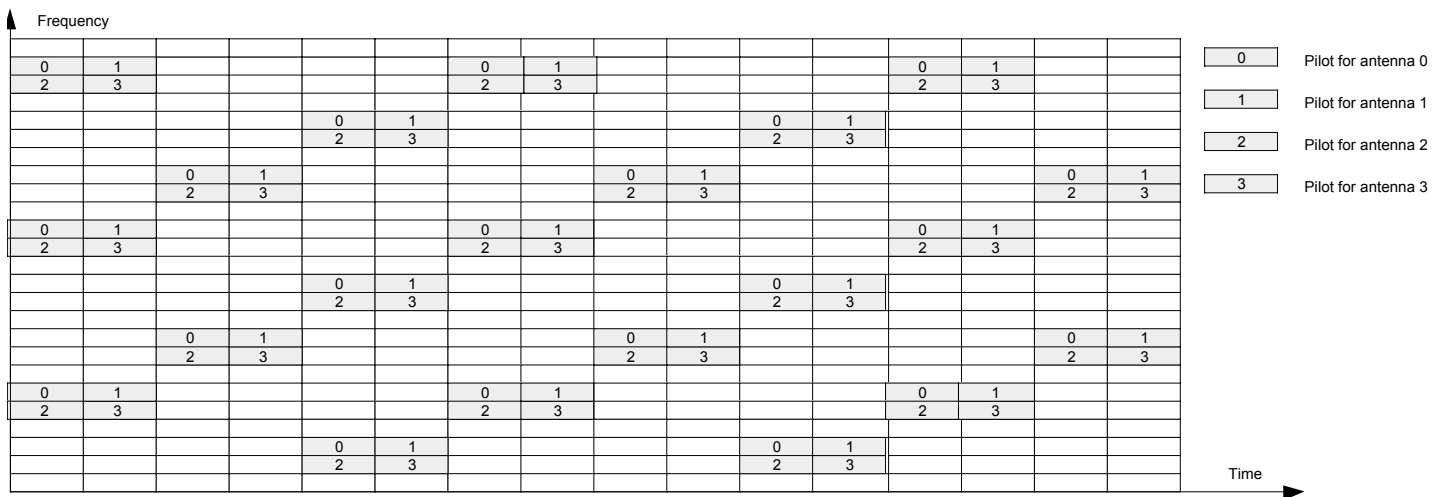


Figure 251c Pilot allocation for 4-antenna BS for the optional FUSC and the optional AMC zones.

References:

- [1] IEEE P802.16e/D5 Air Interface for Fixed and Mobile Broadband Wireless Access Systems – Amendment for Physical and Medium Access Control Layers for Combined Fixed and Mobile Operation in Licensed Bands, 2004.

[2] IEEE P802.16-REVd/D5-2004 Draft IEEE Standards for local and metropolitan area networks, Part 16: Air interface for fixed broadband wireless access systems, 2004.

[3] Recommendation ITU-R M.1225, Guidelines for Evaluation of Radio Transmission Technologies for IMT-2000, 1997.