Common and dedicated pilots in a resource block for MIMO systems

Source:

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Venue:

Re : EEE 802.16m-08/005 ("Call for contributions on Project 802.16m SDD")

Target topic: "Pilot structures as relevant to downlink MIMO

Base Contribution:

IEEE C802.16m-08/160

Purpose:

For discussion and approval by IEEE 802.16 Working Group

MIMO common and dedicated pilots in a resource block

- Hybrid common and dedicated pilots utilized in one resource block to reduce the pilot density

- Common pilots used to enable other MSs to measure their own channel

- Joint dedicated and common pilots used for data stream estimation

6 OFDM symbols

f

q → | D1 | D2 |

p → | D1 | D2 | Bin 1

k → | C1 | C2 |

| D1 | D2 |

| D1 | D2 | Bin 2

| C1 | C2 |

time

| D | Dedicated pilot | C | Common pilot
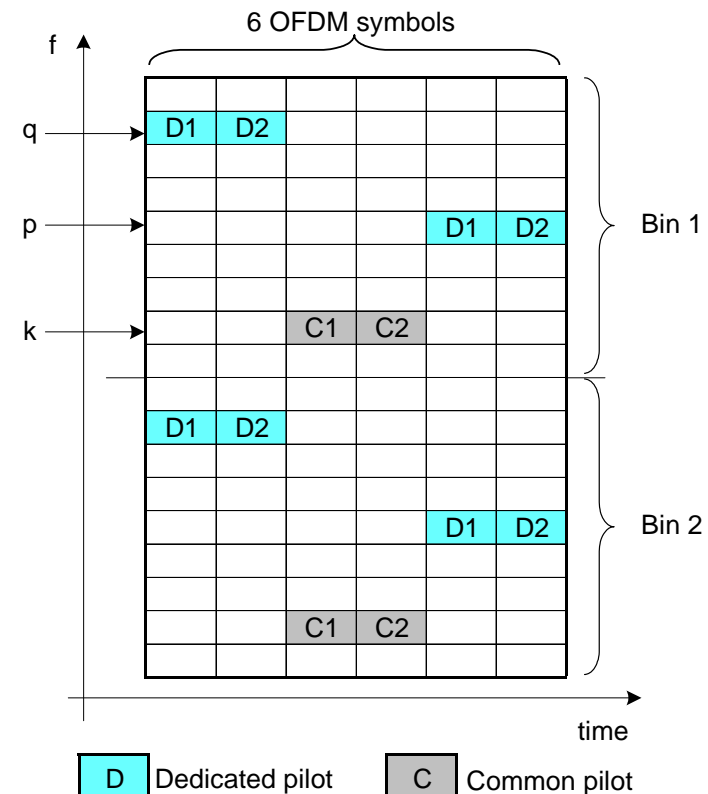
Text Proposal

Proposed Text for SDD

Insert the following text into Physical Layer sub-clause:

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

11.x Pilot structures for DL

11.x.x Common and dedicated pilots for downlink MIMO

Common pilots and dedicated pilots should be in one resource block for multi-user MIMO and single-user MIMO.

---------------------------- Text End ---