IEEE P802.22  
Wireless RANs

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| Comment Resolutions for CID #59 and #60 | | | | |
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Abstract

This document provides revised figures of pilot carrier allocation for 4 TX antennas in PHY Mode 2. This corresponds to comment resolutions for CID #59 and #60.

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**Summary**

CID #59 and #60 are summarized in the Table below.

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| CID | Comments | Suggested Remedy |
| #59 | The pilot allocation should be orthogonal for each antenna. | In the rightmost pilot pattern of Figure CE1, the pilot of symbol 0 should be null subcarrier. |
| #60 | The pilot allocation should be orthogonal for each antenna. | In the rightmost pilot pattern of Figure CF1, the pilot of symbol 0 should be null subcarrier. |

**Comment Resolution: Accepted**

Revised 2 figures (Figure CE1 and CF1) are provided in the following pages.

**14.1.1.2 Pilot allocation for 4 antennas**

In the case of four (4) transmit BS antennas, the DS data allocation to tile is changed (Figure CE1) to accommodate four antennas transmission for channel estimation. Figure CE1 replaces Figure BQ1 in 9a.6.1.1 when MIMO is enabled.



**Figure CE1—DS Tile structure for 4 TX antennas**

In the case of four (4) transmit CPE antennas, the US data allocation to tile is changed (Figure CF1) to accommodate four antennas transmission for channel estimation. Figure CF1 replaces Figure BR1 in 9a.6.1.2 when MIMO is enabled.



**Figure CF1—US Tile structure for 4 TX antennas**