Project	IEEE 802.16 Broadband Wireless Access Working Group <a href="http://ieee802.org/16">http://ieee802.org/16</a>		
Title	Adjacent Carrier Permutation for OFDMA		
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Re:	Call for Contributions on P802.16a Mergers and Consolidation Document Number: IEEE 802.16a-02/22, April 15, 2002. URL: <a href="http://ieee802.org/16/docs/02/80216-02_22.pdf">http://ieee802.org/16/docs/02/80216-02_22.pdf</a>		
Abstract	Describes an adjacent carrier permutation for OFDMA.		
Purpose	Addresses an interoperability concern within OFDMA not addressed by C802.16a-02/49. Make proposed changes to P802.16a/D3.		
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# **Adjacent Carrier Permutation for OFDMA**

Phil Kelly

## **Purpose**

This contribution, in conjunction with C802.16-02/49, achieves complete harmonization of the OFDMA2 PHY mode with the previous OFDMA PHY mode.

#### Comment

Page	Line	Section			
212	55	8.3.4.5			
Comment					
Marga the OFDMA2 mode into the OFDMA mode					

#### Remedy

Move (with editorial modifications) the text from line 57 down to line 30 in page 213 to a new section. The modified text should read:

### 8.3.4.4.3.3 Adjacent Carrier Permutation

Implementation of AAS systems is optional. AAS systems An OFDMA BS may use the distributed carrier permutations specified in defined in (section 8.3.4.4.3) or the adjacent carrier permutation specified in this clause. An OFDMA SS shall be compatible with both permutations. With the adjacent carrier permutation, symbol data within a subchannel is assigned to adjacent carriers and the pilot and data carriers are assigned fixed positions in the frequency domain within an OFDM symbol.

Table ?: Carrier Allocations for the Adjacent Carrier permutation

+=====================================	+=====+   Value
Number of dc carriers	1 1
Number of Guard Carriers, Left	176
Number of Guard Carriers, Right	175
Nused Number of Used Carriers N	1696
Total Number of Carriers	2048
Number of Variable-Location Pilots	0
Number of Fixed-location Pilots	160
Number of Variable-Location Pilots which   coincide with Fixed-Location Pilots	0
Total Number of Pilots	160
Number of data carriers	1536
Nsubchannels	32
Nsubcarriers	53
Number of data carriers per subchannel	48
BasicFixedLocationPilots	{5,16,27,38,49} within each