

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Comment Resolution for 802.16 WG Letter Ballot #37	
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Source(s)	Liru Lu (Alina), Masayuki Oodo, Xin Zhang, Ming-Tuo Zhou, Vinh Dien Hoang, Hiroshi Harada(NICT)	Voice: [Telephone Number (optional)] E-mail: [liru@nict.com.sg; zhangxin@nict.com.sg; moodo@nict.go.jp; mingtuo@nict.com.sg; hvdien@nict.com.sg; harada@nict.go.jp;]
Re:	[Provide comment resolution for letter ballot #37.]	
Abstract	[This document provide comment resolution for letter ballot #37 by adding missed tables.]	
Purpose	[To be discussed in 802.16n Task Group.]	
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Comment Resolution for LB37

Liru Lu (Alina), Masayuki Oodo, Xin Zhang, Ming-Tuo Zhou, Hoang Vinh Dien, Hiroshi Harada
NICT

This document is to provide resolution to comments ID 17, 18 and 19 to add the missed tables.

Proposed Text

Adopt the following Remedies by adding three tables in **Blue**.

----- Start of Proposed Text -----

8.4.6.1.2.1 Symbol structure for PUSC

Insert the following on Page 941

For VHF mode, the symbol is first divided into basic tiles (as defined in Figure 247a) and zero carriers are allocated. Pilots and data carriers are allocated within each tile. Table 442a summaries the parameters of the symbol structure under this PHY mode.

Table 442a -- OFDMA Symbol Structure Parameters for VHF Mode

Parameter	Value		Comments
	DL	UL	
FFT Size	1024	1024	--
Number of DC subcarriers	1	1	Index 512
Number of Used Subcarrier	833	841	Number of all subcarriers including DC, data and pilots used within a symbol
Guard Subcarriers: Left, Right	96, 95	92, 91	--
$N_{\text{subchannels}}$	52	105	--
N_{tiles}	208	210	--
Number of Tiles per subchannel	4	2	--
Number of Pilot subcarriers per Slot	16	8	--
Number of Data subcarriers per Slot	48	48	--
Number of OFDM Symbols per Slot	4	7	--

A slot in the DL of VHF mode is composed of **four (4)** OFDMA symbols and one subchannel. Within each slot, there are **48** data subcarriers and **16** fixed-location pilots as shown in Table 247a. The subchannel is constructed

from **four(4)** DL tiles. Each tile has four successive active subcarriers, and its configuration is illustrated in Figure 247a.

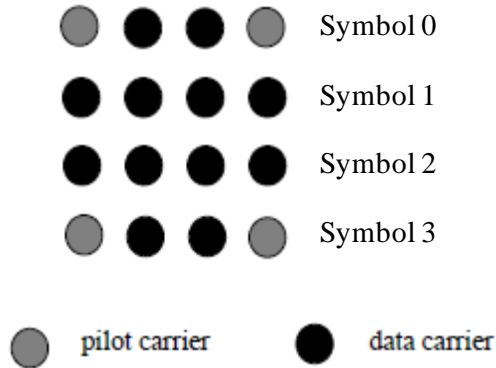


Figure 247a—Description of a DL tile in VHF Mode

Table 332a --1024-FFT OFDMA DL subcarriers allocations for VHF Mode

Parameter	Value	Comments
Number of DC subcarriers	1	Index 512
N_{used}	833	Number of all subcarrier used within a symbol
Guard Subcarriers: Left, Right	96, 95	--
Tile Permutation	{6, 48, 37, 21, 31, 40, 42, 32, 47, 30, 33, 18, 10, 15, 50, 51, 46, 23, 45, 16, 39, 35, 7, 25, 11, 22, 38, 28, 19, 17, 3, 27, 12, 29, 26, 5, 41, 49, 44, 9, 8, 1, 13, 36, 14, 43, 2, 20, 24, 4, 34, 0}	Used to allocate tiles to subchannels
$N_{\text{subchannels}}$	52	--
N_{tiles}	208	--
Number of subcarriers per tile	4	Number of all subcarriers used within tile
Tiles per subchannel	4	--

8.4.6.2.1 Symbol structure for subchannel (PUSC)

Insert the following contents on Page 953 after Figure 249

For VHF mode, a slot in the UL is composed of **seven (7)** OFDMA symbols and one subchannel. Within each slot, there are **48** data subcarriers and 8 fixed-location pilots as shown in Table 249a. The subchannel is constructed from **two(2)** UL tiles. Each tile has four successive active subcarriers, and its configuration is illustrated in Figure 249a.

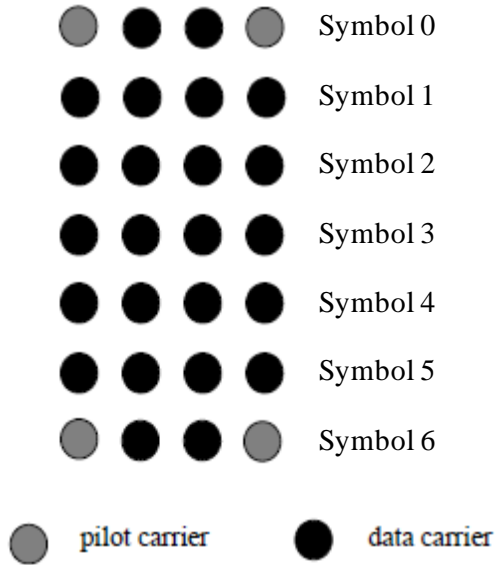


Figure 249a—Description of an UL tile in PHY Mode specified for HR-Network

Table 334a --1024-FFT OFDMA UL subcarriers allocations for VHF Mode

Parameter	Value	Comments
Number of DC subcarriers	1	Index 512
N_{used}	841	Number of all subcarrier used within a symbol
Guard Subcarriers: Left, Right	92, 91	--
Tile Permutation	{3, 52, 35, 67, 94, 13, 80, 6, 34, 45, 43, 68, 84, 66, 7, 37, 71, 89, 55, 101, 27, 60, 51, 14, 21, 17, 93, 72, 95, 73, 81, 24, 103, 86, 39, 29, 56, 62, 70, 64, 23, 22, 54, 15, 90, 76, 100, 3, 36, 18, 9, 91, 19, 26, 12, 92, 48, 25, 87, 74, 5, 31, 85, 40, 104, 2, 102, 69, 57, 50, 1, 44, 0, 20, 88, 79, 16, 28, 46, 42, 41, 59, 96, 97, 99, 82, 30, 49, 65, 77, 63, 11, 8, 75, 98, 38, 32, 83, 4, 47, 58, 61, 78, 10, 53}	Used to allocate tiles to subchannels
$N_{subchannels}$	105	--
N_{tiles}	210	--
Number of subcarriers per tile	4	Number of all subcarriers used within tile
Tiles per subchannel	2	--

----- End of Proposed Text -----