Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Corrections to the OFDMA UL Encoding Example**
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Re:	
Abstract	Corrected text for the UL Encoding Example (OFDMA section)
Purpose	Error Correction
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Corrections to the OFDMA UL Coding Example

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Description

The scrambler output in the example is incorrect, which renders the remainder of the example incorrect. Change the text in section 8.5.9.4.4 to the text below.

New Text

An example of one frame of OFDMA UL data is provided, illustrating each process from randomization through carrier modulation.

Modulation mode: 16-QAM-1/2, Slot Offset: 50, Subchannel Offset: 3, IDcell: 5, UIUC: 4 (decimal values).

Input Data (Hex)

45 29 C4 79 AD 0F 55 28 AD 87 B5 76 1A 9C 80 50 45 1B 9F D9 2A 88 95 EB AE B5 2E 03 4F 09
14 69 58 0A 5D F5

Randomized Data (Hex)

03 88 53 BC DD 90 76 6A 66 09 0C 51 8C 4D F6 B7 73 49 2A 36 96 E9 1C AE 99 2B 9F 44 E8 98
C5 0D BF 50 0E 28

Reed-Solomon encoded Data (Hex)

03 88 53 BC DD 90 76 6A 66 09 0C 51 8C 4D F6 B7 73 49 2A 36 96 E9 1C AE 99 2B 9F 44 E8 98
C5 0D BF 50 0E 28 C8 00 64 82 DB 11 E9 92 1C 6B 6D AC

Convolutional encoded Data (Hex)

34 78 11 09 AF CB BA 8F 78 4A FA 4B 33 1E 86 82 2C 5C 06 CC 08 BB 94 A3 18 BC AD 99 00 2C
51 BB 82 44 C5 0B 0A 6F 91 7F 5F D6 3F 32 17 B3 17 63 8F C3 B5 63 C0 BE 10 A3 80 2C 7D 08
09 30 07 2A A9 BE 82 4B BA 89 94 95

Interleaved Data (Hex)

40 8E C8 09 0F 40 0D C4 C1 6E 69 F2 0D 0A 0F 4A 40 E6 46 3C F5 35 04 BA 7A 78 D6 FF 89 C9
F6 5B 47 C9 11 61 B9 C4 C4 90 86 22 A3 95 F6 91 11 0B AE D7 83 1A 0F DC AF 08 4A 16 20 57
E0 0E 42 D7 C3 92 10 17 AF E7 6F B3

Carrier Mapping (subchannel carrier number - usable carrier number: I value Q value,) preamble not shown.

0-13:pilot=4/3 0,1-53:3 1, 2-79:1 1, 3-112:-1 1, 4-148:-3 -1, 5-191:-3 1,
6-219:-1 1,7-235:1 1, 8-270:-1 3, 9-288:1 1, 10-345:-3 -3, 11-382:3 1,
12-390:1 1, 13-418:pilot=-4/3 0, 14-460:1 1, 15-506:-3 3, 16-522:-3 1,
17-545:3 1, 18-580:-3 1, 19-636:1 3, 20-662:3 -1, 21-681:-3 -1, 22-733:3 -1,
23-741:-1 3, 24-786:-3 -3, 25-817: 1 -1, 26-856:pilot=4/3 0, 27-883:pilot=4/3 0,
28-899:1 1, 29-936:-3 3, 30-983:1 1, 31-999:-1 -1, 32-1042:1 1, 33-1082:-3 -3,

34-1108:3 1, 35-1141:-1 -1, 36-1177:3 1,37-1188:1 1, 38-1216:-3 -1,
39-1264:3 -1, 40-1299:pilot=-4/3 0, 41-1317:3 1,42-1374:3 -1, 43-1379:1 -3,
44-1419:-3 1, 45-1447:-3 -3, 46-1489:3 3, 47-1535:1 -3, 48-1551:3 3,
49-1574:1 1, 50-1609:3 1, 51-1633:-1 -3, 52-1691:-1 -1,

0-13:3 -3, 1-53:-1 -1, 2-79:pilot=-4/3 0, 3-112:3 -3, 4-148:-1 1, 5-191:-3 3,
6-219:3 -1, 7-235:-3 -3, 8-270:-3 -3, 9-288:-1 1, 10-345:-1 3, 11-382:-3 1,
12-390:-1 3, 13-418:-3 -3, 14-460:3 -1, 15-506:pilot=-4/3 0, 16-522:3 3,
17-545:-1 -3, 18-580:3 1, 19-636:3 -3, 20-662:-3 1, 21-681:-1 3, 22-733:1 3,
23-741:1 3, 24-786:3 -1, 25-817:1 3, 26-856:pilot=-4/3 0, 27-883:-1 -3,
28-899:-1 3, 29-936:pilot=4/3 0, 30-983:-3 1, 31-999:3 1, 32-1042:-3 1,
33-1082:3 1, 34-1108:-1 3, 35-1141:1 1, 36-1177:-1 1, 37-1188:3 -1,
38-1216:1 -1, 39-1264:1 -1, 40-1299:-1 -1, 41-1317:1 -3, 42-1374:pilot=4/3 0,
43-1379:-1 3, 44-1419:3 3, 45-1447:-3 -3, 46-1489:3 -1, 47-1535:-1 3,
48-1551:1 3, 49-1574:1 3, 50-1609:1 3, 51-1633:1 1, 52-1691:-1 -3,

0-13:-1 -1, 1-53:-3 -1, 2-79:-3 3, 3-112:3 -3, 4-148:pilot=4/3 0, 5-191:-1 1,
6-219:1 -3, 7-235:1 3, 8-270:-1 -1, 9 -288:1 1, 10-345:-3 -3, 11-382:-3 3,
12-390:-3 1, 13-418:-1 -1, 14-460:-3 -3, 15-506:1 1, 16-522:-1 1,
17-545:pilot=-4/3 0, 18-580:3 1, 19-636:-1 -1, 20-662:1 3, 21-681:3 -1,
22-733:1 -1, 23-741:1 1, 24-786:3 3, 25-817:3 -3, 26-856:pilot=-4/3 0,
27-883:-3 -1, 28-899:1 1, 29-936:1 1, 30-983:-3 -1, 31-999:pilot=-4/3 0,
32-1042:3 1, 33-1082:1 -1, 34-1108:-3 3, 35-1141:3 -3, 36-1177:-3 1,
37-1188:1 -3, 38-1216:-1 3, 39-1264:1 -1, 40-1299:1 3, 41-1317:1 1,
42-1374:1 3, 43-1379:3 -3, 44-1419:pilot=4/3 0, 45-1447:-1 -1, 46-1489:-3 -3,
47-1535:-3 -1, 48-1551:3 -3, 49-1574:3 -1, 50-1609:-3 -3, 51-1633:-1 -3,
52-1691:1 -3.