Project	**IEEE 802.16 Broadband Wireless Access Working Group <**http://ieee802.org/16**>**
Title	**Corrections on R-FCH**
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Re:	IEEE 802.16j-07/019: "Call for Technical Comments Regarding IEEE Project 802.16j"
Abstract	This contribution proposes corrections on R-FCH.
Purpose	Text proposal for 802.16j Baseline Document.
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Corrections on R-FCH

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Introduction

Two issues on R-FCH are unresolved in the baseline document IEEE 80216j-06/026r4 as follows:

1. The "FEC Code type and modulation type" field use 5 bits to describe 8 kinds of "FEC code and modulation types" (0b0000~0b0101, 0b0111~0b1000).

2. The R-FCH format in the baseline document can apply to all FFT sizes except 128.

In order to facilitate the incorporation of this proposal into IEEE 802.16j standard, specific changes to the baseline working document IEEE 802.16j-06/026r4 are listed below.

Text Proposal

[Change the following Table in page 149 as indicated]:

Table 377a—R-Zone_Prefix format for all FFT sizes except 128

Syntax	Size(bits)	Notes
R-Zone_Prefix_format () {		
R-Zone_Location	8~~7~~	The field indicates the OFDM symbol index reference to the beginning of next frame in unit of 1 OFDM symbol
Used_subchannel_bitmap	6	Bit #0: Subchannel group 0 Bit #1: Subchannel group 1 Bit #2: Subchannel group 2 Bit #3: Subchannel group 3 Bit #4: Subchannel group 4 Bit #5: Subchannel group 5
R-MAP_Length	5	Length in unit of slot
FEC Code type and modulation type	~~5~~4	0b0000 = QPSK (CC) 1/2 0b0001 = QPSK (CC) 3/4 0b0010 = 16-QAM (CC) 1/2 0b0011 = 16-QAM (CC) 3/4 0b0100 = 64-QAM (CC) 1/2 0b0101 = 64-QAM (CC) 2/3 0b0110 = 64-QAM (CC) 3/4 0b0111 = reserved 0b~~0~~1000 = QPSK (CTC) 1/2 0b~~0~~1001 = QPSK (CTC) 3/4 0b~~0~~1010 = 16-QAM (CTC) 1/2 0b~~0~~1011 = 16-QAM (CTC) 3/4 0b~~0~~1100 = 64-QAM (CTC) 1/2 0b~~0~~1101 = 64-QAM (CTC) 2/3 0b~~0~~111~~1~~0 = 64-QAM (CTC) 3/4 0b1~~000~~111 = 64-QAM (CTC) 5/6 ~~0b1001-0b1111 reserved~~

Repetition_Coding_Indication	1	0: No repetition coding on R-MAP 1: Repetition coding of 2 used on R-MAP
}		