Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	OFDMA Extended DIUC / Extended-2 DIUC Format and Code Assignments
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Re:	This is a contribution to IEEE 802.16 maintenance.
Abstract	There are two sections for the OFDMA extended DIUC, i.e., 8.4.5.3.21 and Section 8.4.5.3.2. Those two sections have exactly the same name, and they almost have the same contents, except for Extended or Extended-2 DIUC. Those two sections shall be combined. Also, the subsections in 8.4.5.3.21 shall be re-numbered. In addition, the extended DIUC code assignment is a big mess now. We propose to add extended DIUC assignment tables to clean up this mess.
Purpose	To unify two extended DIUC sections.
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Extended DIUC / Extended-2 DIUC

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1. Introduction

There are two sections for the OFDMA extended DIUC, i.e., 8.4.5.3.21 and Section 8.4.5.3.2. Those two sections have exactly the same name, and they almost have the same contents, except for the terms Extended or Extended-2 DIUC. Those two sections shall be combined. Also, the subsections in 8.4.5.3.21 shall be re-numbered. In addition, the extended DIUC code assignment is a big mess now. We propose to add extended DIUC assignment tables to clean up this mess.

2. References

[16e/D6]   IEEE P802.16e/D6, February 2005

3. Proposed Changes

To unify those two OFDMA extended DIUC sections and clean up the DIUC code assignment mess, the following changes are needed:

a)   page 237, line 63, insert the following:

8.4.5.3.2 DL-MAP extended IE format

A DL-MAP IE entry with a DIUC value of 14 or 15, indicates that the IE carries special information and conforms to the structure shown in Table 275. A station shall ignore an extended IE entry with an extended DIUC value for which the station has no knowledge. In the case of a known extended DIUC value but with a length field longer than expected, the station shall process information up to the known length and ignore the remainder of the IE.

Table 275 DL Extended IE format

Syntax	Size	Notes
DL_Extended_IE {		
Extended DIUC / Extended-2 DIUC	4 bits	Extended DIUC if DIUC=15; Extended-2 DIUC if DIUC=14
Length	4 bit	Length in bytes of "unspecified data" field.
Unspecified Data	variable	
}		

8.4.5.3.2.1 Extended DIUC Assignments for DIUC=15

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For the extended DL-MAP IEs with DIUC=15, the extended DIUC assignments are shown in Table 276a.

Table 276a Extended DIUC Assignments for DIUC=15

Extended DL-MAP IE	Extended DIUC Value
Channel Measurement IE	0x00
STC/DL_Zone switch IE	0x01
AAS Zone switch IE	0x02
Data Location in another BS IE	0x03
CID switch IE	0x04
MIMO DL Basic IE	0x05
MIMO DL Enhancement IE	0x06
H-ARQ MAP Pointer IE	0x07
DL-MAP Physical Modifier IE	0x08
DL PUSC Burst Allocation in other segment IE	0x09
Multicast and Broadcast Service MAP IE	0x0a
Macro-MIMO DL basic IE	0x0b
HO Anchor Active DL MAP IE	0x0c
HO Active Anchor DL MAP IE	0x0d
HO CID Translation MAP IE	0x0e
UL interference and Noise Level extended IE	0x0f

8.4.5.3.2.2 Extended-2 DIUC Assignments for DIUC=14

For the extended DL-MAP IEs with DIUC=14, the extended-2 DIUC assignments are shown in Table 276b.

Table 276b Extended-2 DIUC Assignments for DIUC=14

Extended-2 DL-MAP IE	Extended-2 DIUC Value
MIMO in another Basestation IE	0x00
Dedicated DL control IE	0x01
Skip IE	0x02
HARQ DL MAP IE	0x03
HARQ_ACK IE	0x04
Close-loop MIMO DL enhanced IE	0x05
Enhanced DL MAP IE	0x09
reserved	0x0a to 0x0f

b) delete line 3 to line 30 on page 257.

c) Move line 32 to line 36 on page 257 to line 3 on page 258

d) Renumber section 8.4.5.3.21.1 to 8.4.5.3.21

e) Delete the section title line of section 8.4.5.3.21.2, because there is no content in this section.

f) Renumber section 8.4.5.3.21.3 to 8.4.5.3.22.

g) Renumber all the following sections by increase their last number by 1.