Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**	
Title	OFDMA Extended DIUC/UIUC and Extended-2 DIUC/UIUC Code Assignments	
Date Submitted	**2004-03-16**	
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Re:	This is a contribution to IEEE 802.16e.	
Abstract	This contribution includes clarification on the current extended DIUC/UIUCs.	
Purpose	To clean up extended DIUC/UIUCs	
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Extended DIUC/UIUC and Extended-2 DIUC/UIUC

Lei Wang et al.

1. Introduction

This contribution includes clarification on the current extended DIUC/UIUCs.

2. References

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

3. Proposed Changes

[Change 1] Delete Text and Table from line 1 to line 30 in page 257.

[Change 2] Move Text from line 31 to line 30 in page 257 to before the Table 285k in page 258.

[Change 3] Delete Text and Table from line 54 in page 346 to line 23 in page 347.

All the extended DIUC/UIUC's and extended-2 DIUC/UIUC's used upto Session#34 are collected in Table 277a, Table 277c, Table 289a, and Table 289c (C80216e-05/88 is accepted) . But there are some more values for extended DIUC/UIUC related which are accepted at Session#35.

Table 277a—Extended DIUC Allocation

Extended DIUC	Usage
0x00	Channel_Measurement_IE
0x01	STC_Zone_IE
0x02	AAS_DL_IE
0x03	Data_location_in_another_BS_IE
0x04	CID_Switch_IE
0x05	MIMO_DL_Basic_IE
0x06	MIMO_DL_Enhanced_IE
0x07	H-ARQ_Map_Pointer_IE
0x08	PHYMOD_DL_IE
0x09	DL PUSC Burst Allocation in Other Segment
0x0A	UL_interference_and_noise_level_IE
0x0B … 0x0F	Reserved

Table 277c—Extended-2 DIUC Allocation

Extended-2 DIUC	Usage
0x00	MBS_MAP_IE

0x01	HO_Anchor_Active_DL_MAP_IE
0x02	HO_Active_Anchor_DL_MAP_IE
0x03	HO_CID_Translation_MAP_IE
0x04	MIMO_in_another_BS_IE
0x05	Macro-MIMO_DL_Basic_IE
0x06	Skip_IE
0x07	HARQ DL MAP IE
0x08	HARQ ACK IE
0x09	Enhanced DL MAP IE
0x0A	Closed-loop MIMO DL Enhanced IE
0x0B … 0x0F	Reserved

Table 289a—Extended UIUC Allocation

Extended UIUC	Usage
0x00	Power_control_IE
0x01	Mini-subchannel_allocation_IE
0x02	AAS_UL_IE
0x03	CQICH_Alloc_IE
0x04	UL Zone IE
0x05	PHYMOD_UL_IE
0x06	Fast_Ranging_IE
0x07	UL_MAP_Fast_Tracking_IE
0x08	UL_PUSC_Burst_Allocation_in_Other_Segment_IE
0x09	MIMO_UL_Basic_IE
0x0A … 0x0F	Reserved

Table 289c—Extended-2 Type Allocation

Extended-2 Type	Usage
0x00	CQICH_Enhanced Allocation_IE
0x01	HO_Anchor_Active_UL_MAP_IE
0x02	HO_Active Anchor UL MAP
0x03	Anchor_BS_switch_IE
0x04	UL_sounding_command_IE
0x05	Feedback_polling_IE
0x06	MIMO UL Enhanced IE
0x07	HARQ UL MAP IE
0x08	HARQ ACKCH Region Allocation IE
0x09	UL Allocation start IE
0x0A … 0x0F	Reserved

[Change 4] Modify the following tables as:

8.4.5.3.21.3 Skip IE

……

Table 285l—Skip IE

Syntax	Size	Note
Skip_IE {		
Extended-2 DIUC	4 bits	SkipIE ()=0x06
Length	4 8 bits	Length in bytes
…..		
}		

……

8.4.5.3.22 HARQ DL MAP IE

……

Table 285m—HARQ DL MAP IE

Syntax	Size	Note
HARQ DL MAP IE {		
Extended-2 DIUC 2	4 bits	set to 0x1 HARQ DL MAP IE ()=0x07
Length	8 bits	Length of the IE in bytes
…..		
}		

……

8.4.5.3.23 DL HARQ ACK IE

……

Table 285q—HARQ_ACK IE format

Syntax	Size	Note
generic HARQ ACK IE {		
Extended-2 DIUC	4 bits	HARQ ACK IE ()=0x08
Length	48 bits	Length in bytes
…..		
}		

……

8.4.5.3.24 Enhanced DL MAP IE

……

Table 285r—Enhanced DL MAP IE

Syntax	Size	Note
Enhanced_DL_MAP_IE {		
Extended-2 DIUC	4 bits	Enhanced DL MAP IE ()=0x09
Length	48 bits	Length in bytes
…..		
}		

……

8.4.5.3.25 Closed-loop MIMO DL Enhanced IE format

……

Table 285s—Closed-loop MIMO DL enhanced IE

Syntax	Size	Note
CL_MIMO_DL_enhanced_IE {		
Extended-2 DIUC	4 bits	CL_MIMO_DL_enhanced IE ()=0x0A
Length	48 bits	Length in bytes
…..		
}		

……

8.4.5.4.20 MIMO UL Enhanced IE format

……

Table 302g—MIMO UL Enhanced IE ~~format~~

Syntax	Size	Note
MIMO_UL_enhanced_IE {		
Extended-2 UIUC	4 bits	~~Enhanced~~ MIMO UL enhanced IE=0x06
Length	48 bits	Length ~~of the message~~ in bytes ~~(variable)~~
…..		
}		

……

8.4.5.4.25 HARQ UL MAP IE

……

Table 302l—HARQ UL MAP IE ~~format~~

Syntax	Size	Note
HARQ UL MAP IE {		
Extended-2 DIUC	4 bits	~~set to 0x01~~ HARQ UL MAP IE ()=0x07
Length	8 bits	~~Indicates the~~ Length ~~of the IE~~ in bytes
…..		
}		

……

8.4.5.3.26 HARQ ACK Region Allocation IE

……

Table 302q—HARQ ACKCH region ~~MAP~~ allocation IE ~~format~~

Syntax	Size	Note
HARQ ACKCH region IE {		
Extended-2 DIUC	4 bits	HARQ ACKCH region IE ()=0x08
Length	48 bits	Length in bytes
…..		
}		

……

8.4.5.4.27 UL Allocation start IE

……

Table 302r—UL Allocation start IE

Syntax	Size	Note
UL Allocation start IE {		
Extended-2 DIUC	4 bits	UL Allocation start IE ()=0x09
Length	48 bits	Length in bytes
…..		
}		

……