Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**End-of-MAP IE Reuse**
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Source(s)	Yigal Eliaspur Voice: +972-54-7884877 Dov Andelman mailto: yigal.eliaspur@intel.com Yuval Lomnitz Intel Corp.
Re:	IEEE P802.16e/D5a
Abstract	End-of-MAP IE has no real use in OFDMA phy. As for that it can be reused as a new type of extended D/UIUC..
Purpose	Adopt changes.
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End-of-MAP IE Reuse

Yigal Eliaspur

Intel Corp.

1. The Document's Goal

DIUC 14 and UIUC 11 are to be consider End-of-MAP for 802.16-2004 devices.

However, this End-of-MAP IE has no real use in OFDMA phy. As for that it can be reused as a new type of extended D/UIUC.

Backward capability can be maintained by the BS by using this IE in non-compressed MAPs or in compressed MAP in frames that does not include UL allocation for 16d users.

2. Specific changes in the Standard

[Add new section to section 8.4.5.4]

8.4.5.4.x UL-MAP extended 2 IE format

A UL-MAP IE entry with a UIUC value of 15, indicates that the IE carries special information and conforms to the structure shown in Table xxx. A BS shall not order the presentation of UL-MAP extended 2 IEs in the UL-MAP in such a way as to interfere with any SS ability to properly decode the message. A station shall ignore an extended IE entry with an extended UIUC
value for which the station has no knowledge. In the case of a known extended UIUC 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 xxx—OFDMA UL-MAP extended 2 IE format

Syntax	Size	Notes
UL_Extended_2_IE() {		
Extended UIUC	~~6~~ 4 bits	
Length	8 bits	Length in bytes of Unspecified data field
Unspecified data	*variable*	
}		

[In section 8.4.5.4.1 UIUC Allocation]

Replace "End-of-Map IE" with "Extended UIUC 2 IE"

[Add new section to section 8.4.5.3]

8.4.5.3.x DL-MAP extended IE format

A DL-MAP IE entry with a DIUC value of 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

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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 xxx—OFDMA DL-MAP extended 2 IE format

Syntax	Size	Notes
DL_Extended_2_IE() {		
Extended DIUC	~~6~~ 4 bits	
Length	8 bits	Length in bytes of Unspecified data field
Unspecified data	*variable*	
}		

[In section 8.4.5.3.1 DIUC allocation]
Replace "End-of-Map IE" with "Extended UIUC 2 IE"