

Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>Clarification of UL Allocation Start Time of UL Relay Zone</b>	
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Re:	IEEE 802.16-08/007: "IEEE 802.16 Working Group Letter Ballot Recirc #28b: Announcement"	
Abstract	This contribution modifies the burst-based forwarding in RS group with non-transparent RSs	
Purpose	Text proposal for 802.16j Draft Document.	
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## Clarification of UL Allocation Start Time of UL Relay Zone

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### Introduction

In D3, the UL\_Allocation\_Start\_Time for UL Relay Zone is only indicated in the TLV of RCD. The RCD is not transmitted very often. In order to increase efficiency of the relay link under two-hop configuration, we propose to include the UL\_Allocation\_Start\_Time in the R-MAP.

We also propose the size of RCD\_configuration\_change\_count in R-MAP shall be the same as the configuration change count in DCD and UCD.

In order to facilitate the incorporation of this proposal into IEEE 802.16j standard, specific changes to the draft document P802.16j/D3 are listed below.

### Text Proposal

8.4.5.10 R-MAP message

[Change the following text in line 29 of page 205 as indicated]

**Table 496a—R-MAP message format**

Syntax	Size	Notes
R-MAP format {		
RCD configuration change count	<del>16</del> 8 bits	
<a href="#">Allocation Start Time Index</a>	1 bit	<a href="#">0b0 = Relay UL allocation start time indicated in RCD</a> <a href="#">0b1 = Dynamic setting of relay UL allocation start time</a>
RCID_Type	2 bit	0b00 = Normal CID 0b01 = RCID 11 0b10 = RCID 7 0b11 = RCID 3
Length	11 bits	Length of R-MAP in bytes
<a href="#">If(Allocation_Start_Time_Index == 0b1){</a>		
<a href="#">Allocation Start Time</a>	32 bits	<a href="#">Effective start time of the relay UL allocation</a>
<a href="#">}</a>		
DL_IE count	6 bits	Number of DL_IE in the burst
UL_IE count	6 bits	Number of UL_IE in the burst
for(i=0;i<DL_IE count; i++){	-	-
DL_MAP_IE	variable	
}	-	-
for(i=0;i<UL_IE count; i++){	-	-
UL_MAP_IE	variable	
}	-	-
While(map data remains){	-	-
R-link specific IE	variable	

}		
Padding	variable	Padding to reach byte boundary
}		

#### 11.24.1 Generic channel description

*[Change the following text in line 53 of page 253 as indicated]*

Name	Type	Length	Value	Scope
Relay UL allocation start time for operational RS	7	<u>4</u>	Indicates the effective start time of the uplink allocation defined by the R-MAP on R-link <u>The unit of allocation start time shall be PSs from the start of the DL frame in which the R-MAP message occurred.</u>	RCD