Project	IEEE 802.16 Broadband Wireless Access Working Group <**http://ieee802.org/16**>
Title	Format of R-MAP in Transparent RS System
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Re:	IEEE 802.16j-06/034: "Call for Technical Proposals regarding IEEE Project P802.16j"
Abstract	This contribution proposes format of R-MAP in transparent RS system
Purpose	Text proposal for 802.16j Baseline Document
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Format of R-MAP in Transparent RS System

Introduction

This contribution describes format of R-MAP in transparent RS system. In order to facilitate the incorporation of this proposal into IEEE 802.16j standard, specific changes to the baseline working document IEEE 802.16j-06/026r2 are listed below.

Text Proposal

[Add new sections 6.x.x.x]

6.x.x.x R-MAP message in transparent RS system

Table xxx —R-MAP message in transparent RS system

Syntax	Size	
R-MAP_Message_Format() {		
Management Message Type = xx	8 bits	
Begin PHY Specific Section {		
Nr_RS	8 bits	Number of Relay Station (RS)
for (n=0; n< Nr_RS; n++) {	-	-
R-MAP_IE()	variable	
}		
}		

[Add new sections 8.4.4.9]

8.4.4.9 R-MAP IE format in transparent RS system

Table xxx —R-MAP IE format in transparent RS system

Syntax	Size	
R-MAP_Message_Format() {	-	-
Management Message Type = xx	8 bits	-
DL/UL_flag	1 bit	MS CIDs for both DL and UL relaying 0b0: not exist; 0b1: exist
UL_flag	1 bit	MS CIDs for UL only relaying 0b0: not exist; 0b1: exist
CDMA_Dedicated_RNG_flag	1 bit	Monitor dedicated CDMA ranging region? 0b0: not monitor; 0b1: monitor
CDMA_IRHR_flag	1 bit	Monitor CDMA initial/handover ranging region? 0b0: not monitor; 0b1: monitor
CDMA_Allocation_flag	1 bit	Information for Relay CDMA_Allocation_IE 0b0: not exist; 0b1: exist
Fast_Ranging_flag	1 bit	Information for MS fast ranging 0b0: not exist; 0b1: exist
FAST-FEEDBACK_flag	1 bit	Information for FAST-FEEDBACK Channel 0b0: not exist; 0b1: exist
Reserved	1 bit	Shall be zero

If (DL/UL_flag == 0b1) {	-	-
Nr_CID	8 bits	Number of MS CIDs for both DL and UL relaying
for (n=0; n< Nr_CID; n++) {	-	-
MS CID	16 bits	Serving MS CID
}	-	-
}	-	-
If (UL_flag == 0b1) {	-	-
Nr_CID	8 bits	Number of MS CIDs for UL only relaying
for (n=0; n< Nr_CID; n++) {	-	-
MS CID	16 bits	Serving MS CID
}	-	-
}	-	-
If (CDMA_Allocation_flag == 0b1) {	-	-
Nr_CDMA	8 bits	Number of CDMA_Allocation_IE for UL relaying
for (n=0; n< Nr_CMDA; n++) {	-	-
Order	8 bits	Indicator the order of CDMA_Allocation_IE appear in the UL-MAP for UL relaying. (if order = 3, it means the third CDMA_Allocation_IE appear in UL-MAP)
}	-	-
}	-	-
If(Fast_Ranging_flag == 0b1) {	-	-
Nr_Fast_RNG	8 bits	Number of Fast_Ranging_IE for UL relaying
for (n=0; n< Nr_Fast_RNG; n++) {	-	-
Order	8 bits	Indicator the order of Fast_Ranging_IE appear in the UL-MAP for UL relaying. (if order = 3, it means the third Fast_Ranging_IE appear in UL-MAP)
}	-	-
}	-	-
If (FAST-FEEDBACK_flag == 0b1) {	-	-
Nr_Fast_FEB	8 bits	Number of F FAST-FEEDBACK_IE for UL relaying
for (n=0; n< Nr_Fast_FEB; n++) {	-	-
Order	8 bits	Indicator the order of FAST-FEEDBACK_IE appear in the UL-MAP for UL relaying. (if order = 3, it means the third FAST-FEEDBACK_IE appear in UL-MAP)
}	-	-
}	-	-
If !(byte boundary) {		
Padding Nibble	4 bit	Padding to reach byte boundary.
}		