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Title	RS Configuration Description Broadcast	
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Abstract	For a RS network entry, there may be a need for RS configuration procedure controlled by MMRBS over the air. This contribution proposes a pair of MAC management messages for this purpose.	
Purpose	To incorporate the proposed text into the P802.16j Baseline Document (IEEE 802.16j-06/026)	
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## RS configuration Description Broadcast

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### Introduction

With relay station introduced, some configuration parameters specific for normal operation of RSs may be required. There are some examples, such as, ranging back-off, radio environment report threshold, HARQ related parameters, and so on. This contribution suggests introducing a message dedicated to broadcast configuration parameters specific for RS operation.

### **Introduction of RS configuration description management messages**

In fact, 802.16e DCD and UCD messages can be modified to include those new configurations. However, there are following disadvantages using DCD/UCD for this purpose:

- The DCD/UCD would include new TLVs which are irrelevant to the operation of 802.16e MSs. It is not efficient for a MS to decode the lengthy DCD/UCD message
- Especially, when the change/update of MS related configuration and that of RS related configuration are not synchronized, even though a DCD/UCD may only contain updated RS related configure parameters, a MS has to decode this message.

In this contribution, we suggest to introduce RS configuration description message RS-CD management message to enable a MMRBS to broadcast RS specific configuration parameters to RSs.

The RS-CD message includes configuration parameters for both DL and UL.

### 3.Proposed text change

*[Modify the last row in Table 14 in page 46 as follows]*

Type	Message name	Message description	Connection
<u>62-255-67</u>	<u>RS_CD</u>	<u>RS specific configuration description sent by MMRBS and forwarded by intermediate RSs</u>	<u>Broadcast to all associated RS of a MMRBS</u>
<u>68-255</u>		<u>Reserved</u>	

*[Add new sections 6.3.2.3.62 after section 6.3.2.3.61 in page 172]*

#### 6.3.2.3.63 RS configuration description message

This message is a broadcast message among associated RSs of a MMRBS. This message is transmitted by a MMRBS and forwarded by intermediate RSs. This message is used by a MMRBS to broadcast description of configuration specific to all of its associated RSs to enable RSs' operations, such as network entry, initialization, and 802.16e traffic forwarding.

Table XXX. RS configuration description (RS-CD) message format.

Syntax	Size	Notes
<u>RS_CD format {</u>		
<u>  Management message type = 67</u>	<u>8 bits</u>	
<u>  TLVs</u>	<u>Variable</u>	<u>Configuration TLV</u>
<u>}</u>		