Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	RS Configuration Description Broadcast
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Re:	A response to a Call for Technical Proposal, http://www.ieee802.org/16/relay/docs/80216j-07_007r2.pdf
Abstract	With relay station introduced, some configuration parameters specific for normal operation of RS may be required. This contribution introduces a new broadcast message used to broadcast configuration parameters specific for RS operation.
Purpose	To incorporate the proposed text into the P802.16j Baseline Document (IEEE 802.16j-06/026r2)
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RS configuration Description Broadcast

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Nortel

1. 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.

2. Introduction of RS configuration description management messages

In fact, 802.16e DCD and UCD massages 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 not related to the operation of 802.16e MSs. It is not efficient for a MS to decode a lengthy DCD/UCD message
- In addition, 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 configuration parameters, an MS has to decode this message.

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

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 4 as follows]

Type	Message name	Message description	Connection
~~68~~ 255 68	RS_CD	RS specific configuration description sent by MMRBS and forwarded by intermediate RSs	Broadcast to all associated RS of a MMRBS
69-255		Reserved	

[Add new subclause 6.3.2.3.65]

6.3.2.3.65 RS configuration description message

This massage is a broadcast message aomong associated RSs of a MMRBS. This message is transmitted by a MMRBS and forwarded by intermediate RSs. This massge 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
RS_CD format {		
Management message type = 67	8 bits	
TLVs	Variable	Configuration TLV
}		