Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Modification on Relaying DCD and UCD**
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Re:	IEEE 802.16j-07/019: "Call for Technical Comments Regarding IEEE Project 802.16j"
Abstract	This contribution proposes modification on relaying DCD and UCD
Purpose	Text proposal for 802.16j Baseline Document.
Notice	
Release	
Patent Policy	

Modification on Relaying DCD and UCD

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Introduction

In order to reduce the overhead of non-transparent RS, this contribution proposes the modification of relaying DCD and UCD for non-transparent RS systems. The MR-BS periodically sends the DCD/UCD message to access RS until receiving acknowledge from the RS. Afterward, the access RS broadcasts DCD/UCD autonomously on the access link. Whenever the DCD/UCD message is updated, MR-BS repeats above procedure to send the new DCD/UCD message to the access RS.

In order to facilitate the incorporation of this proposal into IEEE 802.16j standard, specific changes to the baseline working document IEEE 802.16j-06/026r4 are listed below.

Proposed text change

6.3.2.3.1 Downlink channel descriptor (DCD) message

 [Insert the following text at the end of 6.3.2.3.1]

When the DCD message sent by MR-BS is used for RS to broadcast on the relay link, the MR-BS shall include the following TLV parameter in DCD message

   Relay Link Indication:
       To indicate the DCD is used for RS to broadcast on the relay link.

6.3.2.3.3 Uplink channel descriptor (UCD) message

 [Insert the following text at the end of 6.3.2.3.3]

When the UCD message sent by MR-BS is used for RS to broadcast on the relay link, the MR-BS shall include the following TLV parameter in UCD message

   Relay Link Indication:
       To indicate the UCD is used for RS to broadcast on the relay link.

11.3 UCD management message endcodings

[Insert the following row into Table 353(.16e)/Table 601(Rev2)]

Name	Type (1 byte)	Length	Value (Variable-length)

Relay Link Indication	TBA	1	0: the UCD is used for RS to broadcast on the relay link. 1-255: reserved

11.4 DCD management message encodings

Insert the following row into Table 358(.16e)/Table 606(Rev2):

Name	Type (1 byte)	Length	Value (Variable-length)
Relay Link Indication	TBA	1	0: the DCD is used for RS to broadcast on the relay link 1-255: reserved.