

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.	
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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

6.3.28.1 RS broadcast message relaying

[Insert the following at the end of subclause 6.3.28.1 in line 29 of page 134]

Upon receiving the DCD/UCD message with RS primary CID, as shown in Figure xxx, the RS should send acknowledgment header containing DCD or UCD message type and Transaction ID as the 8-bit LSB DCD or UCD count to MR-BS. Under centralized scheduling, as shown in Figure yyy, the RS shall request bandwidth on the access link to broadcast the DCD/UCD message with fragmentable broadcast CID. Under distributed scheduling, the RS shall autonomously broadcast DCD/UCD on the access link.

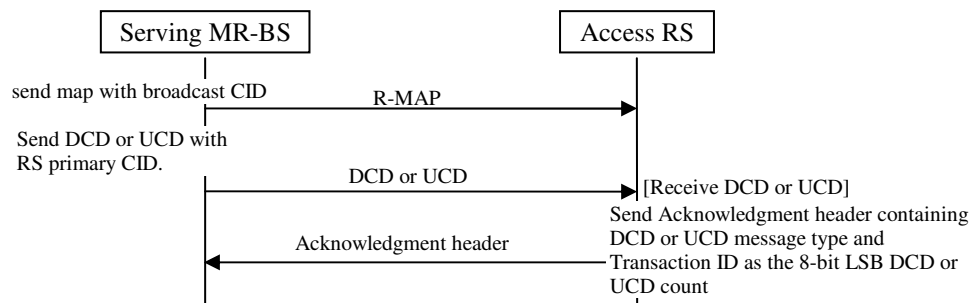


Figure xxx –Relaying DCD/UCD procedure

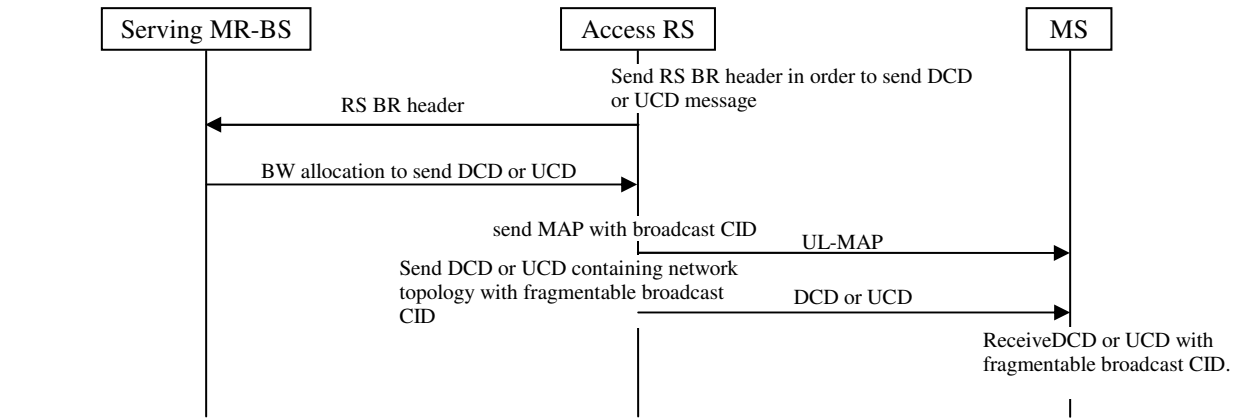


Figure yyy – DCD/UCD broadcasting with centralized scheduling