

Project	IEEE 802.16 Broadband Wireless Access Working Group
Title	Comments on DL Access Zone TLV for Distributed RS
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Re:	This document is in response to IEEE 802.16 Working Group Letter Ballot #28a, as specified in IEEE 802.16-07/059. This document proposes text regarding signaling to enable UL access zone allocation for insertion into IEEE P802.16j/D2.
Abstract	This contribution proposes text regarding signaling to enable UL access zone allocation for distributed RS.
Purpose	Text is included for insertion in the IEEE 802.16j amendment to the standard.
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DL Access Zone TLV for Distributed RS

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Introduction

In the current 802.16j draft, no means of initially configuring DL access region of a distributed RS at the time of RS network entry is provided. As a result, an 802.16j relay network deployment may not support fractional frequency reuse on the DL. Note that the IEEE802.16e-2005 standard specifies specific subchannel groups to be used on the DL in the 'Used subchannel indicator' field of the FCH. In this contribution it is proposed that a TLV similar to the 'Used subchannel indicator' field be included in the RCD message (Section 6.3.2.3.65) for configuring the DL access region of a distributed RS. This TLV may be sent to an RS at the time of its network entry as part of the RS initial configuration or for periodic access region readjustments.

Proposed text changes***Modify subclause 6.3.2.3.65 as follows:***

The RCD message may include the following TLVs for multiple frame configuration:

DL subframe configuration (see 11.25.6)

UL subframe configuration (see 11.25.6)

The RCD message may include the following TLV for DL access link configuration:

Access link DL used subchannel indicator (see 11.25.7)

Insert new subclause 11.25.7:**11.25.7 RS DL access link configuration**

This field is used by the MR-BS to configure the access DL of the RS.

<u>Name</u>	<u>Type</u>	<u>Length</u>	<u>Value</u>	<u>Scope</u>
<u>Access link DL used subchannel indicator</u>	<u>TBA</u>	<u>1</u>	<u>Bit #0: Subchannel group 0</u> <u>Bit #1: Subchannel group 1</u> <u>Bit #2: Subchannel group 2</u> <u>Bit #3: Subchannel group 3</u> <u>Bit #4: Subchannel group 4</u> <u>Bit #5: Subchannel group 5</u> <u>Bit #6 and 7: reserved</u>	<u>RCD</u>