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| Re: | IEEE802.16-07/043"IEEE 802.16 Working Group Letter Ballot #28: Announcement" |
| Abstract | This contribution proposes a signaling method for the resource request of access zone. |
| Purpose | Discuss and adopt proposed text by TG16j |
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# Signaling to assign the resource in the UL access zone

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## 1. Introduction

This contribution proposes a signaling method of assigning the resource in the uplink access zone in response to the resource request of uplink access zone from RS, i.e., 'RS UL size request header' in subclause 6.3.2.1.2.2.2.6 [1]. 'RS UL size request header' proposed by [2] has been accepted in July meeting. However, signaling to assign the resource in response to 'RS UL size request header' has not been defined yet. To complete the aforementioned 'RS UL size request header', the signaling method of assigning the resource in the UL access zone is proposed in this contribution.

## 2. Proposed solution

To complete the aforementioned operation, i.e., 'RS UL size request header', signaling method of resource allocation, i.e., RS UL access zone IE, is proposed.

## 3. Proposed text change

*[Insert new subclause 8.4.5.9.1.3:]*

### 8.4.5.9.1.3 RS UL access zone IE (RS_UL-AZONE IE)

In the distributed scheduling, MR-BS may transmit RS UL access zone IE to RSs upon receiving RS UL size request header (see 6.3.2.1.2.2.2.6). RS UL access zone IE provides the allocation of the UL access zone. The RS whose RS CID is appeared in RS UL access zone IE shall allocate that resource region assigned by RS UL access zone IE to its subordinate MSs. MR-BS and other RSs shall not allocate that resource region assigned by RS UL access zone IE for its subordinate MS.

Table xxx – RS_UL-access zone IE format

| Name | Length | Description |
|---|---|---|
| RS_UL-AZONE IE { | | |
|  Type | 5bits | RS_UL-AZONE IE=0x02 |
|  Length | 4bits | Variable |
|  RS CID | 16bits | RS basic CID |
|  Indicator | 1bit | 1: indicates allocation of resource<br>0: indicates release of resource<br>Notes: allocation/release is effective in the next frame |
|  OFDMA symbol offset | 8bits | |
|  No. OFDMA symbols | 7bits | |
| } | | |

**Indicator:** RS_UL-access zone IE with indicator field=1 allocates resource to RS whose RS CID is appeared in the RS_UL-access zone IE. In this case, RS whose RS CID is appeared in the RS_UL-access zone IE shall allocate that resource to its subordinate MS. MR-BS and other RSs shall not allocate that resource to its subordinate MS. RS_UL-access zone IE with indicator field=0 releases resource from RS whose RS CID is appeared in the RS_UL-access zone IE. In this case, MR-BS and all RSs shall allocate that resource to its MSs autonomously.

*[Change Table 496c in page 192 as follows:]*

Table 496c – R-link specific IE types

| Type (hexadecimal) | Usage |
|---|---|
| 00 | RS_UL_DCH assignment IE |
| 01 | RS_BW-ALLOC IE |
| 02 | RS_UL-AZONE IE |
| 03-1F | Reserved |

**Reference:**

[1] IEEE P802.16j/D1 August 2007
[2] IEEE C802.16j-07/307r1, "UL Access Region Size Request for Semi-Distributed RS".