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Title	Comments on MS upstream traffic adjustment	
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Re:	IEEE 802.16j-07/043: "IEEE 802.16 Working Group Working Group Letter Ballot #28"	
Abstract	This contribution proposes to merge the paragraphs in subclauses 6.3.9.16.1, 6.3.10.3.4.1 and 6.3.10.3.4.3.	
Purpose	Text proposal for 802.16j Draft Document.	
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Patent Policy	The contributor is familiar with the IEEE-SA Patent Policy and Procedures: ">http://standards.ieee.org/guides/bylaws/sect6-7.html#6> and ">http://standards.ieee.org/guides/opman/sect6.html#6.3> . Further information is located at http://standards.ieee.org/guides/opman/sect6.html#6.3> . Further information is located at http://standards.ieee.org/guides/opman/sect6.html#6.3> .	

Comments on MS upstream traffic adjustment

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Introduction

In P802.16j/D1, there are many redundancies in paragraphs and diagrams (sequences charts and flow charts) for handling unsolicited RNG-RSP triggered by upstream traffic. Therefore, we propose to extract paragraphs and diagrams related to unsolicited RNG-RSP triggered by upstream traffic in subclauses 6.3.10.3.4.3, 6.3.10.3.4.4.1, and 6.3.10.3.4.4.2, and merge them into a new subclause 6.3.10.4.

In order to facilitate the incorporation of this proposal into IEEE 802.16j standard, specific changes to the draft standard P802.16j/D1 are listed below.

Specification Changes

6.3.10.3.4.3 Unsolicited RNG-RSP in transparent RS systems

[Move the following texts in line 7 of page 114 to 6.3.10.4 as indicated:]

When the offsets of frequency, power, and timing for any other data transmission from the MS are beyond the tolerance defined in this specification, the RS shall transmit a RNG-REQ message with the RS basic CID-containing the MS basic CID to the serving MR-BS through the relay path. Alternatively, the RS shall request the MR-BS to allocate access downlink bandwidth on which the RS can send an unsolicited RNG-RSP to the MS.

Upon receiving the RNG-REQ message from a subordinate RS, the MR-BS may send an unsolicited RNGRSPmessage with this MS basic CID to the MS.

The message sequence charts (Table 201d and Table 201e) and flow charts (Figure 108f, Figure 108g, Figure 108h and Figure 108i) define the unsolicited RNG-RSP process that shall be followed by compliant RSs and MR-BSs.

[Move Table 201d, and Figure 108f and 108g into 6.3.10.4]

6.3.10.3.4.4.1 Non-transparent RS with centralized scheduling

[Move the following texts in line 10 of page 117 to 6.3.10.4 as indicated:]

When the offsets of frequency, power, and timing for any data transmission from the MS are beyond the tolerance defined in this specification, RS may transmit an unsolicited RNG-RSP with continue status to MS on access link. In order to send RNG-RSP to MS on the access link, RS sends a RS BR header to MR-BS.

The message sequence chart in Tables 201f-and 201g and flow charts in Figures 108j-and 108k define the unsolicited RNG-RSP process that shall be followed by compliant RSs and MR-BSs.

[Move Table 201g and Figure 108k to 6.3.10.4]

6.3.10.3.4.4.2 Non-transparent RS with distributed scheduling

[Move following texts in line 33 of page 119 to a new subclause 6.3.10.4 :]

When the offsets of frequency, power, and timing for any data transmission from the MS are beyond the tolerance defined in this specification, RS may send an unsolicited RNG-RSP message to the MS.

The message sequence charts in Table 201h and 201i and flow charts in Figures 108l and 108m define the unsolicited RNG-RSP process that shall be followed by compliant RSs and MR-BSs.

[Move Table 201h and Figure 108l to 6.3.10.4:]

[Insert the following subclause 6.3.10.4 in line 16 of page 122 as indicated:]

6.3.10.4 MS upstream transmission adjustment

[*Move paragraphs in line 56 of page 113 ~ line 6 of page 114 (6.3.10.3.4.3), line 10 ~ line 13 of page 117 (6.3.10.3.4.4.1), and line 33 ~ line 36 of page 119 (6.3.10.3.4.4.2) to here, and modified as indicated:*]

When the offsets of frequency, power, and timing for any other data transmission from the MS are beyond the tolerance defined in this specification, the RS shall transmit a RNG REQ message with the RS basic CID containing the MS basic CID to the serving MR-BS through the relay path. Alternatively, the RS under centralized scheduling shall request the MR-BS via RS BR header to allocate access downlink bandwidth on which the RS can send an unsolicited RNG-RSP to the MS, whereas the RS under distributed scheduling shall directly send an unsolicited RNG-RSP message to the MS.

The uplink-only transparent RS shall transmit a RNG-REQ message with the RS basic CID containing the MS basic CID to the serving MR-BS through the relay path. Upon receiving the RNG-REQ message from a subordinate RS, the MR-BS may send an unsolicited RNG-RSP message with this MS basic CID to the MS.

When the offsets of frequency, power, and timing for any data transmission from the MS are beyond the tolerance defined in this specification, RS may transmit an unsolicited RNG-RSP with continue status to MS on access link. In order to send RNG-RSP to MS on the access link, RS sends a RS BR header to MR-BS.

When the offsets of frequency, power, and timing for any data transmission from the MS are beyond the tolerance defined in this specification, RS may send an unsolicited RNG-RSP message to the MS.

[Insert the following texts as indicated:]

The message sequence chart in Tables xxx-a, xxx-b and xxx-c and flow charts in Figures xxx-a, xxx-b, xxx-c and xxx-d define the MS upstream transmission adjustment that shall be followed by compliant RSs and MR-BSs.

[Move Table 201d, 201g, 201h and Figures 108f, 108g, 108k, 109l to here, and modified as indicated:]

 Table-201d xxx-a
 Unsolicited RNG-RSP triggered by upstream traffic MS upstream transmission adjustment in uplink-only transparent mode

 Table-201g xxx-b
 Unsolicited RNG-RSP triggered by uplink traffic in non-transparent mode MS upstream

 transmission adjustment under centralized scheduling

 Table-201h xxx-c
 Unsolicited RNG-RSP triggered by upstream traffic in non-transparent RS system under distributed scheduling MS upstream transmission adjustment under distributed scheduling



Figure <u>108f_xxx-a</u> <u>Unsolicited RNG-RSP triggered by upstream traffic_MS upstream transmission adjustment</u> at <u>an uplink-only</u> transparent access RS

