Project	IEEE 802.16 Broadband Wireless Access Working Group http://ieee802.org/16 >					
Title	Comment on Unsolicited RNG-RSP in transparent RS System					
Date Submitted	2007-07-18					
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	Institute for Information Industry 8F, No. 218, Sec. 2, Dunhua S. Rd., Taipei City 106, Taiwan					
Re:	IEEE 802.16j-07/019: "Call for Technical Comments Regarding IEEE Project 802.16j"					
Abstract	This contribution proposes the modified figures of MS unsolicited RNG-RSP in non-transparent RS system under centralized scheduling scheme based on comment #1141 of 80216j-07_014r4.cmt.					
Purpose	Text proposal for 802.16j Baseline Document.					
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Comment on Unsolicited RNG-RSP in transparent RS System

Kanchei (Ken) Loa, Yi-Hsueh Tsai, Yung-Ting Lee, Hua-Chiang Yin, Shiann-Tsong Sheu, Youn-Tai Lee Institute for Information Industry (III)

Introduction

In order to reduce the overhead on the relay link, this contribution provides a new scheme for MS unsolicited RNG-RSP in transparent RS system. In this scheme, the RS sends unsolicited RNG-RSP to the MS locally instead of sending RNG-REQ to MR-BS. 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.

Text Proposal

6.3.10.3.4.3 Unsolicited RNG-RSP in transparent RS systems

[Change the following text in line 56 of page 97 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 RSs 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.

After RS receives a bandwidth request CDMA ranging code, it should transmit an RNG-REQ MR-Code-REP message with the RS basic CID containing the CDMA BR ranging code to the serving MR-BS through the relay path with adjustment information of frequency, power, and timing corrections. When RS receives multiple codes in the ranging subchannel of a frame, the RNG-REQ MR-Code-REP message sent by the RS to serving MR-BS may contain information of multiple received codes.

When the MR-BS receives a bandwidth request CDMA ranging code, it shall wait for RNG-REQ MR-Code-REP with the same ranging code from its subordinate RSs for T48 timer.

The message sequence charts (Table xxx201d and Table yyy201e) and flow charts (Figure 108f, <a href="Fig

[Change the title of the following Table in page 99 as indicated]

Table 201d—Unsolicited RNG-RSP triggered by upstream traffic in non-transparent RS system mode [Replace the following Figure 108f in page 99 as indicated]

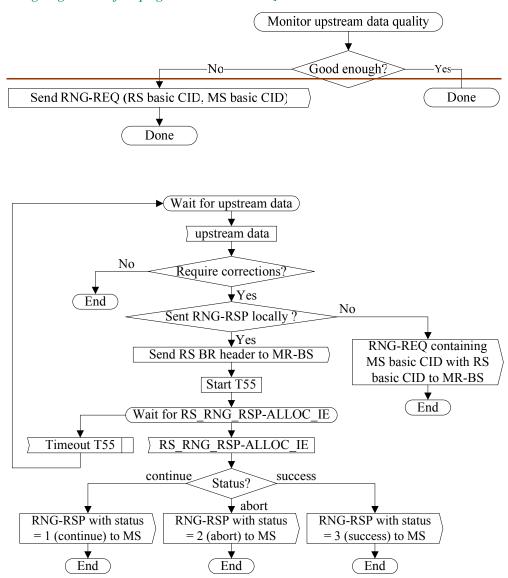


Figure 108f—Unsolicited RNG-RSP in Transparent RS system—triggered by upstream traffic at Transparent Access RS

[Replace the following Figure 108g in page 99 as indicated]

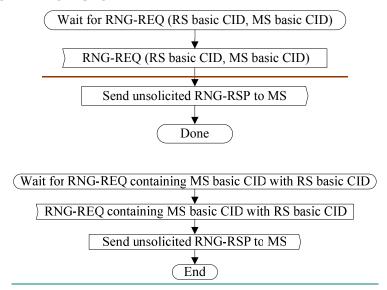


Figure 108g—Unsolicited RNG-RSP in Transparent RS system-Handle RNG-REQ in transparent mode at MR-BS

[Replace the following Figure 108h in page 99 as indicated]

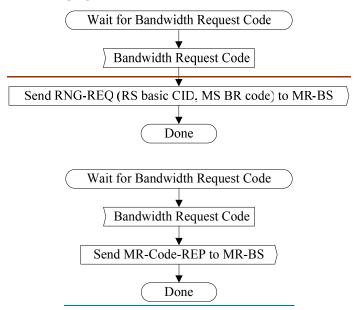


Figure 108h Unsolicited RNG-RSP triggered by CDMA BR ranging code in Transparent RS system at Transparent Access RS

[Replace the following Figure 108i in page 99 as indicated]

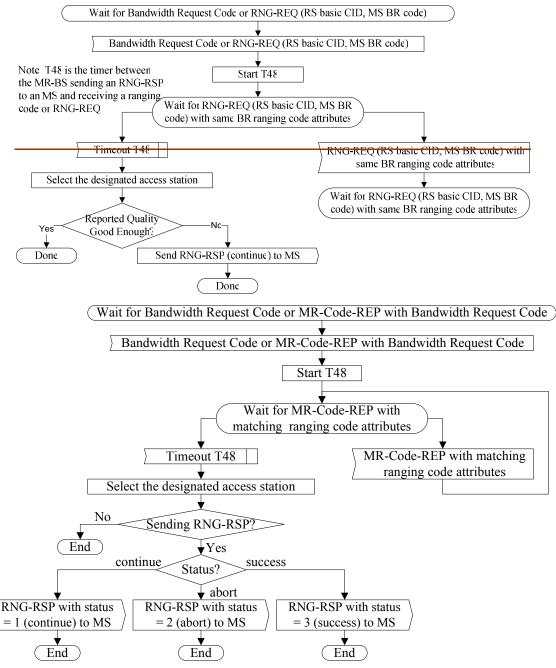


Figure 108i Unsolicited RNG-RSP triggered by CDMA BR ranging code in Transparent-RS system mode at MR-BS

10.1 Global values

[Insert the following rows into Table 583 in page 169:]

Table 583—Parameters and constants

System	Name	Time reference	Minimum value	Default value	Maximum value
RS	<u>T55</u>	The timer between RS sending an RS BR header to MR-BS and receiving the allocate bandwidth for adjusting UL timing offset, power level offset and frequency offset triggered by upstream traffic	<u>tbd</u>	<u>tbd</u>	<u>tbd</u>