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Title	Unsolicited RNG-RSP in Non-transparent RS System under Centralized Scheduling				
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Re:	IEEE 802.16j-07/007r2: "Call for Technical Comments and Contributions regarding IEEE				
	Project 802.16j"				
Abstract	This contribution proposes procedures for unsolicited RNG-RSP in non-transparent RS under				
D	Centralized Scheduling				
Purpose	Text proposal for 802.16j Baseline Document This document has been prepared to assist IEEE 802.16. It is offered as a basis for discussion				
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Unsolicited RNG-RSP in Non-transparent RS System under Centralized Scheduling

Introduction

This contribution describes MS unsolicited RNG-RSP in non-transparent RS system under centralized scheduling scheme. In order to facilitate the incorporation of this proposal into IEEE 802.16j standard, specific changes to the baseline working document IEEE 802.16j-06/026r2 are listed below.

Text Proposal

6.3.10 Ranging

6.3.10.3 OFDMA based ranging

6.3.10.3.4 Relaying support for OFDMA based ranging

[Insert the following sebclause]

6.3.10.3.4.4 Unsolicited RNG-RSP in non-transparent RS systems

6.3.10.3.4.4.1 Non-transparent RS with Centralized Scheduling

When the offsets of frequency, power, and timing for any data transmission from the MS are beyond the tolerance defined in this specification, 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. The RNG-REQ message sent by the RS to serving MR-BS may contain information of multiple measured reports.

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 through the RS.

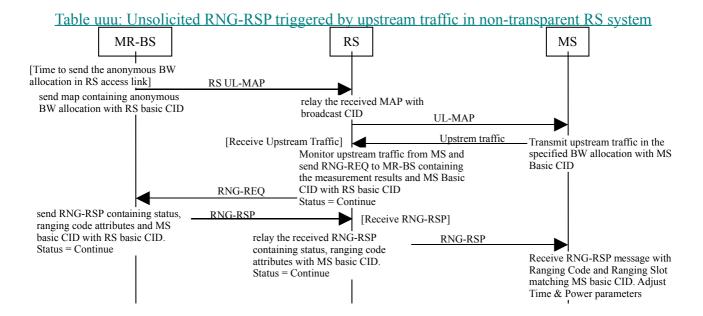
The message sequence charts (Table uuu) and flow charts (Figure uuu, Figure vvv) define the unsolicited RNG-RSP process that shall be followed by compliant RSs and MR-BSs.

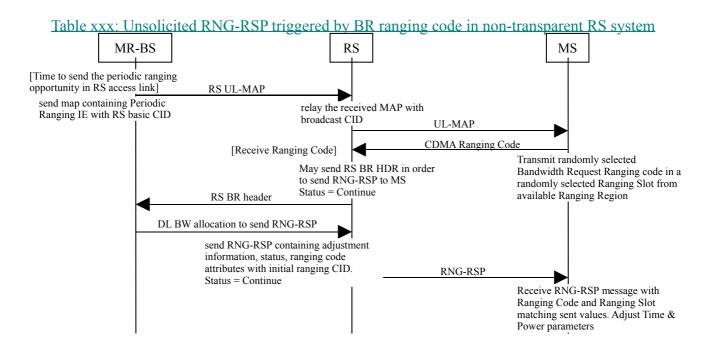
The RS should send an unsolicited RNG-RSP as a response to a CDMA-based bandwidth-request from MS, which results in continue status.

When RS receives the BR CDMA code resulting in continue status, RS shall locally send RNG-RSP to MS on the access link. In order to send RNG-RSP to MS on the access link, it sends a RS BR header to the MR-BS. Upon receipt of RS BR header at MR-BS, MR-BS will allocate resources for RNG-RSP and indicate to RS with RS DL MAP-IE in DL-MAP.

When the RS receives multiple codes in a frame resulting in continue status, the RS sends a RS BR header which contains information of number of received codes

The message sequence charts (Table xxx) and flow charts (Figure xxx, Figure yyy) define the unsolicited RNG-RSP process that shall be followed by compliant RSs and MR-BSs.





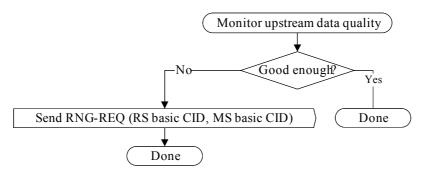


Figure uuu Unsolicited RNG-RSP triggered by upstream traffic in non-transparent RS system – Access nontransparent RS

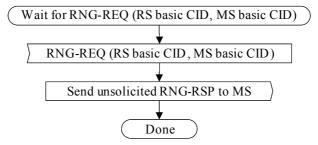


Figure vvv Unsolicited RNG-RSP triggered by upstream traffic in non-transparent RS system – MR-BS

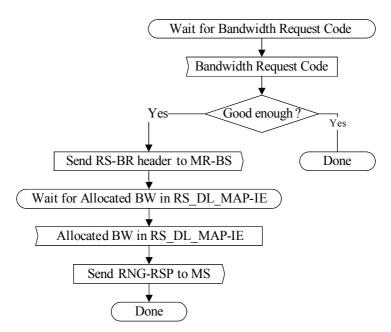


Figure xxx Unsolicited RNG-RSP triggered by BR ranging code in non-transparent RS system – Access non-transparent RS

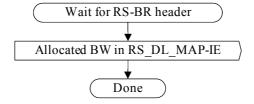


Figure yyy Unsolicited RNG-RSP triggered by BR ranging code in non-transparent RS system – MR-BS

6.3.10.3.4.4.2 Non-transparent RS with Distributed Scheduling

[This subclause is just a place holder. The contents are in a different contribution.]

[Insert the following rows into Table 364 at 11.5 RNG-REQ TLV]

Table 364—RNG-REQ message encodings

Name	Type	Length	Value	PHY
	(1 byte)		(variable-length)	Scope
MS Basic CID	TBA	<u>2</u>	MS Basic CID	<u>OFDMA</u>