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Title	Comment on Unsolicited RNG-RSP in transparent RS System	
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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

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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, RSs shall either transmit a RNG-REQ message with the RS basic CID containing the MS basic CID to the serving MR-BS through the relay path, or locally send an unsolicited RNG-RSP to MS in optional transparent zone. In order to send RNG-RSP to MS in optional transparent zone, RS shall send a RS BR header to MR-BS.

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, Figure 108g, Figure ~~xxx108h~~ and Figure ~~yyy108i~~) define the unsolicited RNG-RSP process that shall be followed by compliant RSs and MR-BSs.

[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]

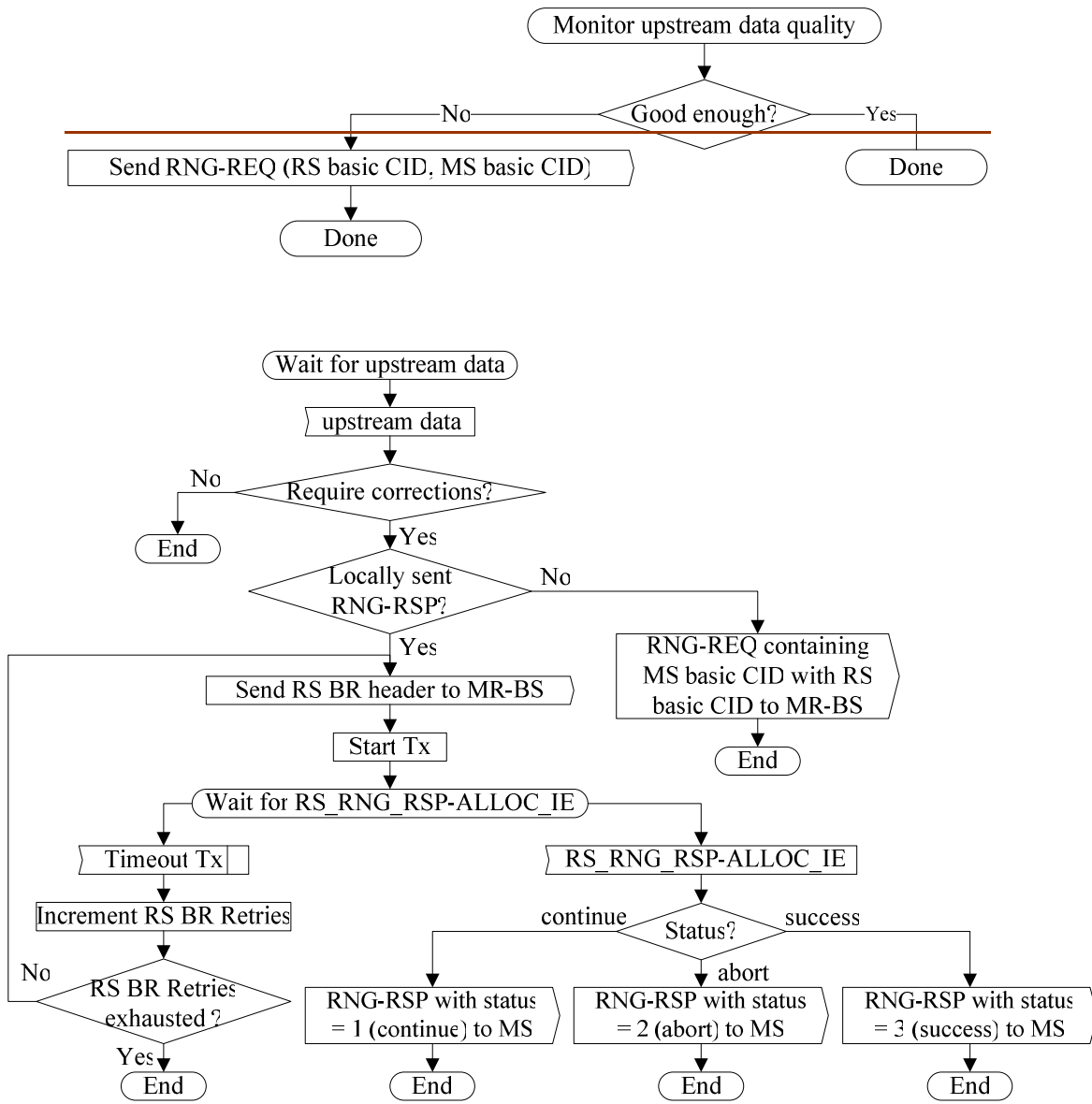


Figure 108f—Unsolicited RNG-RSP ~~in Transparent RS system~~ triggered by upstream traffic at Transparent Access RS

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

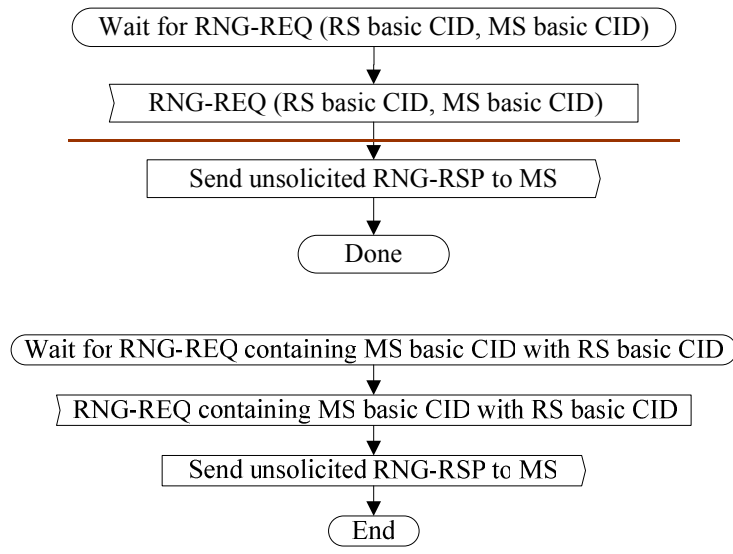


Figure 108g ~~Unsolicited RNG-RSP in Transparent RS system~~ Handle RNG-REQ in transparent mode at MR-BS

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

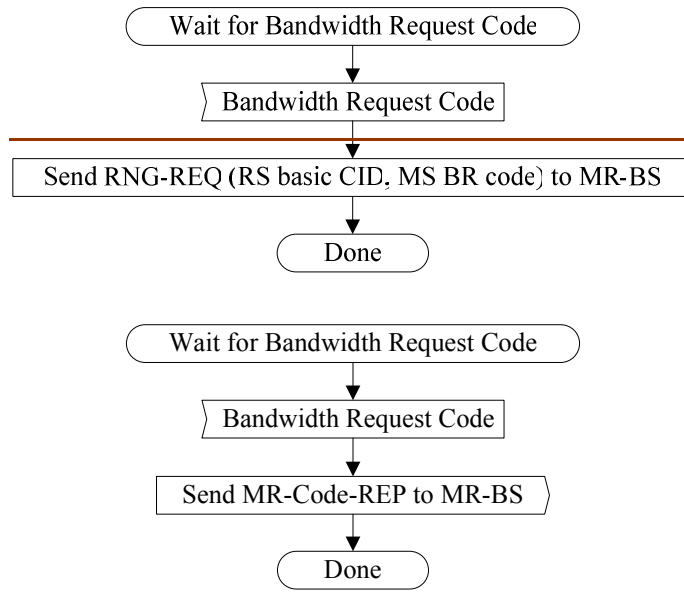


Figure 108h ~~Unsolicited RNG-RSP triggered by CDMA BR ranging code in Transparent RS system at~~ Transparent Access RS

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

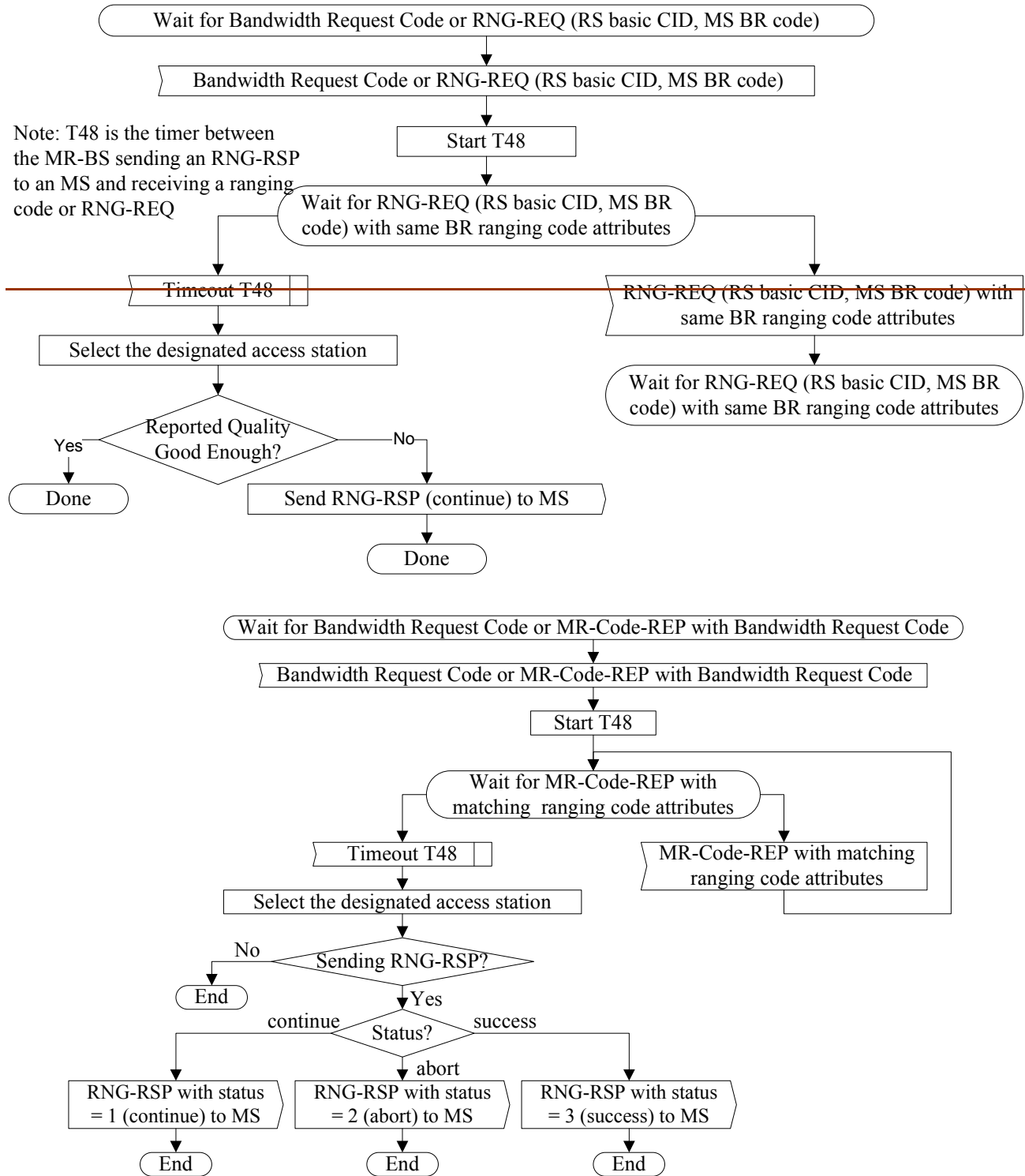


Figure 108i Unsolicited RNG-RSP triggered by CDMA BR ranging code in Transparent-RS system mode at MR-BS