Project	IEEE 802.16 Broadband Wireless Access Working Group http://ieee802.org/16
Title	Comments on MS Initial Ranging with Non-transparent RS (Centralized)
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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 modifications for MS Initial Ranging with Non-transparent RS
Purpose	Text proposal for 802.16j Baseline Document.
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Comments on MS Initial Ranging with Non-transparent RS

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Introduction

In the current baseline document 802.16j-06_26r4, RS transmits a RNG-REQ to the MR-BS after receiving the CDMA code that requires no corrections is to request MR-BS to generate the CDMA_Allocation IE() for MS. Therefore, we propose to simplify the procedure for MS initial ranging with non-transparent RS by having RS locally sending a RNG_RSP message to the MS on the access link. As a result, the RS utilizes the same procedure to handle the received CDMA code resulting in the success status or continue status.

In addition, sending the RNG-RSP message with status "Success" is optional in P802.16-2004 Cor2/D4 (P80216Rev2_D0b). Thus, this contribution proposes modification, consistent with P802.16-2004 Cor2/D4 (P80216Rev2_D0b), on MS initial ranging with non-transparent RS in section 6.3.9.16.2.1 of baseline working document IEEE 802.16j-07/026r4.

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

6.3.9.16.2 MS network entry procedures in non-transparent RS systems

6.3.9.16.2.1 Non-transparent RS with Centralized scheduling

[Change the following text in line 52 of page 82 as indicated]

When an RS receives a CDMA code-that results in continue status, the RS shall locally send a RNG_RSP message to the MS on the access link. <u>Sending the RNG-RSP message with status "Success" is optional.</u> In order to send the RNG_RSP to the MS, it sends an RS BR header to the MR-BS.

[Change the following text in line 3 of page 83 as indicated]

When the MR-BS receives the RNG-REQ with success status-that requires no corrections, it sends a RS UL-MAP to the RS including a CDMA_Allocation-IE as well as a RNG-RSP containing success status with the value of MS ranging indicator equal to 1.

[Change the following text in line 15 of page 83 as indicated]

After receiving the RNG-RSP, which the value of MS ranging indicator is equal to 1, the RS sets the value of MS ranging indicator to zero and then relays the message with the initial ranging CID.

[Change the following Table 199b in page 84 as indicated]

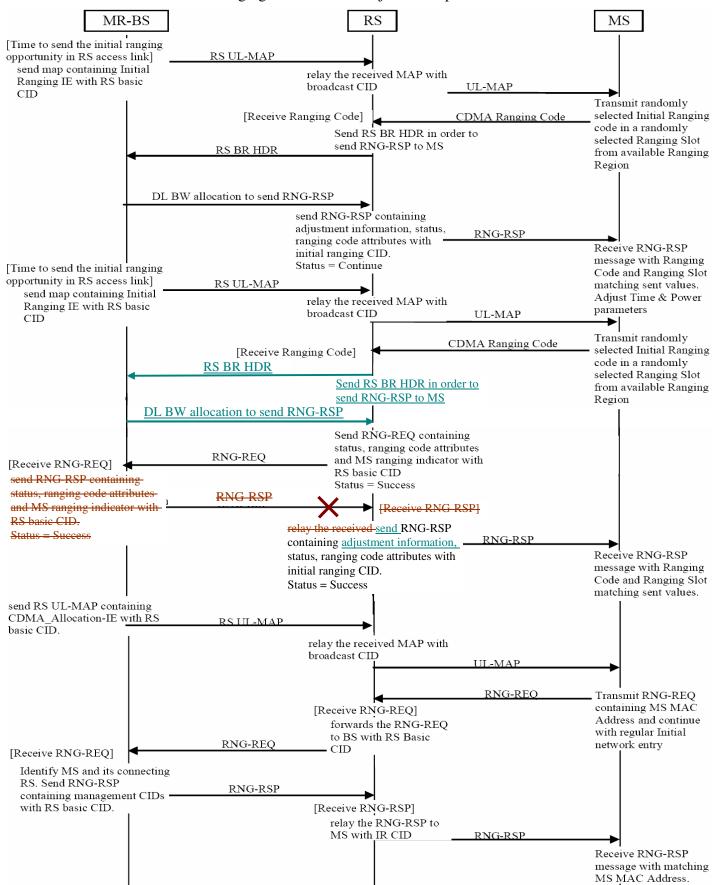
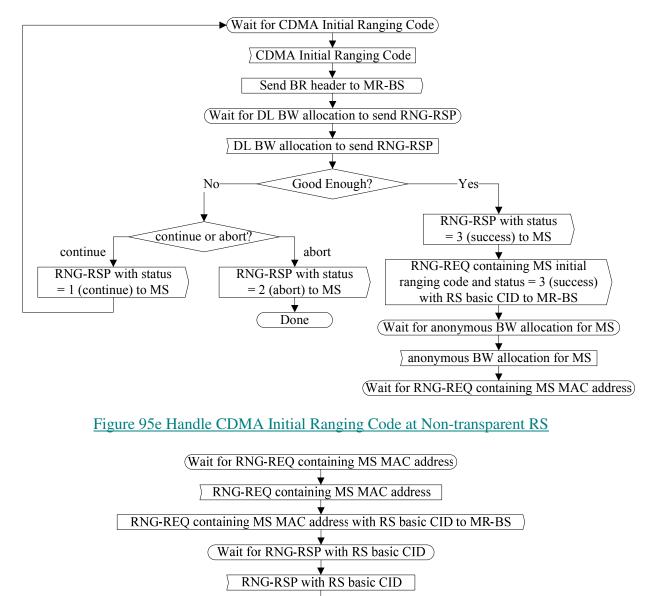


Table 199b—Ranging and automatic adjustments procedure in MR mode

[Change the following text in page 83 as following indicated:]

The message sequences chart (Table <u>xxx-1199b</u>) and flow charts (Figure 95e, Figure 95f, Figure 95g) on the following pages defines the ranging and adjustment process that shall be followed by compliant RSs and MR-BSs. For CDMA ranging process between RS and MS, these details can be found in 6.3.10.3.





Done Done

RNG-RSP with Initial Ranging CID to MS

Figure 95f Handle RNG-REQ at Non-transparent RS

