
IEEE 802.16 Broadband Wireless Access Working Group <<http://ieee802.org/16>>

Title **Relaying RNG-REQ/RSP for MS Network Entry**

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Re: Call for technical proposals regarding IEEE project P802.16j

Abstract

[This contribution proposes text to clarify RS operation of Ranging Process for distributed controlled RS.](#)

~~[This contribution proposes the scheme with which RS supports MS scanning operation.](#)~~

Purpose

Discussion and Adoption in IEEE 802.16j

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Relaying RNG-REQ/RSP for MS Network Entry

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Introduction

In IEEE 802.16j Baseline document 06/026r2, the initial ranging process in Non-transparent RS with Distributed scheduling as defined at section 6.3.9.16.2.2 as described in the figure <XXX>03.

However, when a RS relays RNG-REQ and RNG-RSP between MS and MR-BS, some field in the message is appropriate to be responded by the RS. For example, the Downlink Operational Burst Profile for a MS in RNG-RSP should be responded by the RS since the RS is the actual node which is physically communicating with the MS.

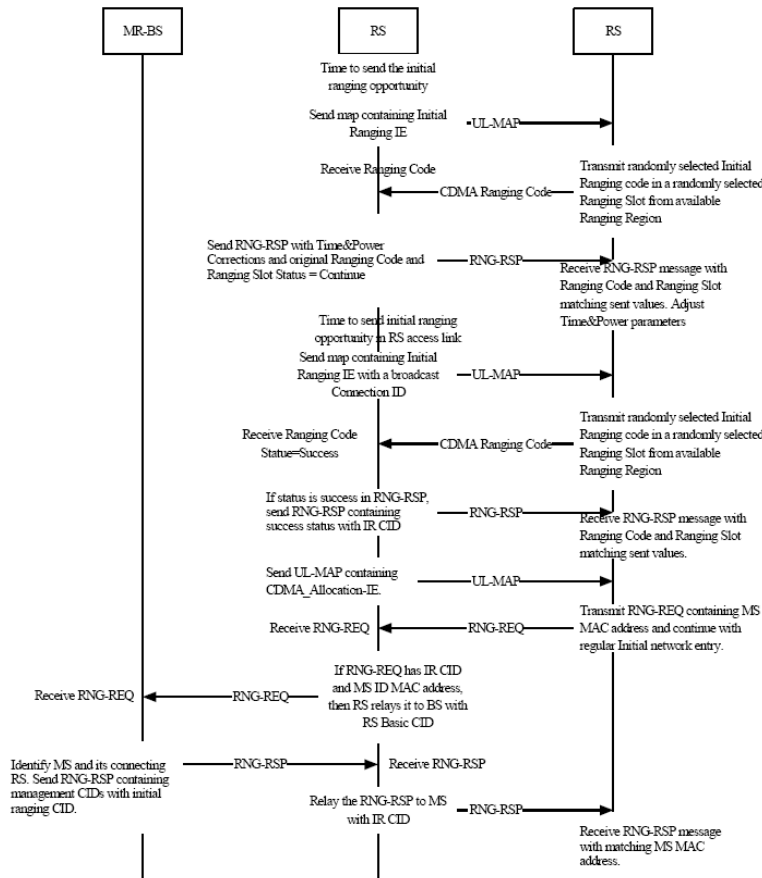


Figure <XXX>03—Ranging and automatic adjustments procedure in MR mode

Proposed Text Change

[Modify the followings section at section 6.3.9.16.2.2 on page 25]

"Receiving the RNG-REQ containing the MS MAC Address, the RS may decide which TLV is managed by itself in the RNG-RSP. If there is any field to be managed by the RS such as Downlink Operational Burst Profile, the RS omit the TLV from the RNG-REQ and recompose the RNG-REQ message. The RS transmit the RNG-REQ message~~relays it~~ with the RS basic CID instead of IR CID in the header to MR-BS.

Once the MR-BS receives the RNG-REQ containing MS MAC Address with the RS basic CID, the MR-BS shall assign Basic and Primary management CIDs to the MS, and transmit a RNG-RSP containing those management CIDs and MS MAC Address with the RS basic CID.

The RS receiving the RNG-RSP containing the management CIDs and MS MAC Address may add the TLV field which is managed by RS and shall transmit~~relay~~ it to the MS with the initial ranging CID..."