Management CID allocation

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Purpose:

Discuss and adopt proposed text and message format.

Management CID allocation

<u>Objective</u>

To reduce # of ranging messages between MR-BS and MS through RS

- ➤ Addition into the base line document (802.16j-06/026r2) as optional network entry procedure
- ➤ For non-transparent RS with distributed scheduling

<u>Main features</u>

- ✓ MR-BS can pre-assign a part of management CID range to RS
- ✓ RS also can assign these CID to its subordinate node
- ✓ New messages between MR-BS and RS
  - ➤ RS CID Allocation Request (CID_ALLOC-REQ)
  - ➤ RS CID Allocation Response (CID_ALLOC-RSP)
  - ➤ Station Information (STA-INFO)
  - ➤ Station Information Acknowledge (STA-ACK)

Management CID allocation

MR-BS   RS -1   RS -2   MS
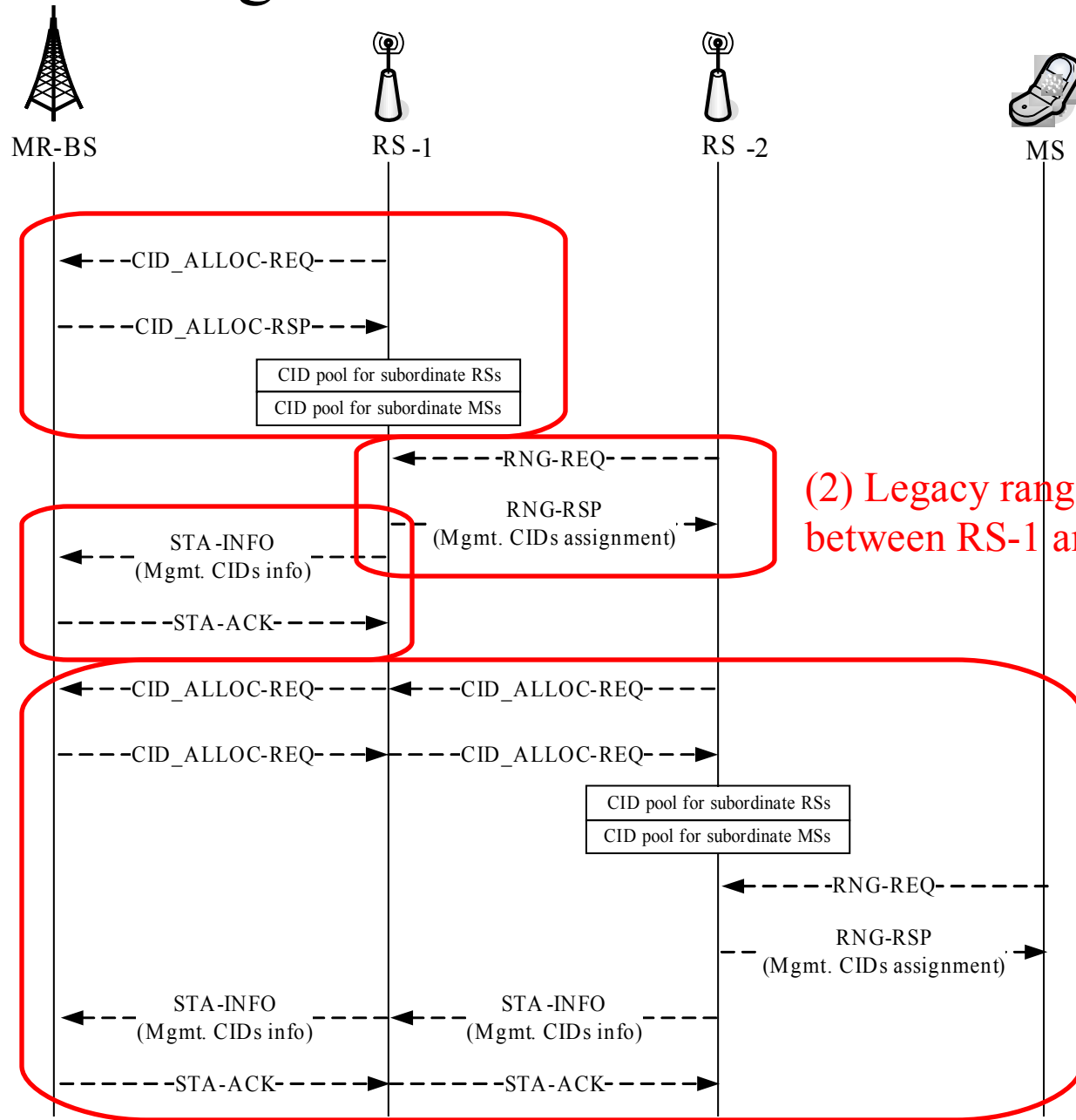
(1) Pre-assign CID pool for RS-1

← - - -CID_ALLOC-REQ- - - -

- - - - -CID_ALLOC-RSP- - - →

| CID pool for subordinate RSs |
| CID pool for subordinate MSs |

← - - - - - -RNG-REQ- - - - -

(2) Legacy ranging process between RS-1 and RS-2

RNG-RSP
(Mgmt. CIDs assignment) - - →

(3) Inform the assigned CID

← - - - STA -INFO
(Mgmt. CIDs info)

- - - - -STA-ACK- - - - →

(4) Same process as the above

← - -CID_ALLOC-REQ- - - - ← - - -CID_ALLOC-REQ- - - -

- - - -CID_ALLOC-REQ- - → - - -CID_ALLOC-REQ- - →

| CID pool for subordinate RSs |
| CID pool for subordinate MSs |

← - - - - -RNG-REQ- - - - -

RNG-RSP
(Mgmt. CIDs assignment) - →

← - - - STA-INFO
(Mgmt. CIDs info)   ← - - - STA -INFO
(Mgmt. CIDs info)

- - -STA-ACK- - - - → - - - -STA-ACK- - - - →