Management CID allocation

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Purpose:
Discuss and adapt proposed text and message format.

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Management CID allocation

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

Main features
✓ Management CID shall be divided into two range

Table 345 - CIDs

<table>
<thead>
<tr>
<th>CID</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic CID</td>
<td>0x0001 ~ x</td>
<td>Basic CID range for MS. The same value is assigned to both the DL and UL connection.</td>
</tr>
<tr>
<td></td>
<td>x+1 ~ m</td>
<td>Basic CID range for RS. The same value is assigned to both the DL and UL connection.</td>
</tr>
<tr>
<td>Primary management CID</td>
<td>m+1 ~ m+x</td>
<td>Primary management CID range for MS. The same value is assigned to both the DL and UL connection.</td>
</tr>
<tr>
<td></td>
<td>m+(x+1) ~ 2m</td>
<td>Primary management CID range for RS. The same value is assigned to both the DL and UL connection.</td>
</tr>
</tbody>
</table>

✓ BS can assign a part of management CID range to RS systematically or non-systematically
✓ RS also can assign these CID to its subordinate node
Management CID allocation

- BS
- RS_1
- RS_n-1
- RS_n
- MS

CIDs for subordinate MS
CIDs for subordinate RS

RNG-REQ
RNG-RSP

STA_INFO
(Mgmt. CIDs info)

STA_ACK

1st hop
n-th hop
n+1th hop

(Mgmt. CIDs assigned)

RNG-RSP
Management CID allocation

Text to be inserted into standard (extracts)

6.3.2.3.5  Ranging request (RNG-REQ) message
- Start number of management CID for MS
- End number of management CID for MS

6.3.2.3.6  Ranging response (RNG-RSP) message
- Start number of management CID for MS
- End number of management CID for MS
- Start number of management CID for RS
- End number of management CID for RS