RS-initiated Handover Procedure for Handover-manageable RS

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Purpose:
Discuss and adapt proposed text and message format.

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RS-initiated Handover

Objective
To support cases when RS should trigger handover

Main features
➢ RS types according to capability of handover
  - Handover-unmanageable RS: The handover-unmanageable RS indicates the RS, which can initiate handover but cannot support handover process and decision. This type of RS just relays handover messages between MS and MR-BS.
  - Handover-manageable RS: The handover-manageable RS indicates the RS, which can initiate, process, and decide handover. This type of RS can issue MOB_BSHO-REQ message to start handover and manage handover request from MS’s.
➢ Introduction of MOB_RSHO-IND: After handover completion, the handover-manageable RS should report the new access station ID of the handovered MS to MR-BS to establish a new downlink path.
An Example of RS-initiated handover procedure
### MOB_RSHO-IND

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Size (bits)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOB-RSHO-IND_Message_Format() {</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Management Message Type=XX</td>
<td>XX</td>
<td></td>
</tr>
<tr>
<td>MS_Number</td>
<td>XX</td>
<td>Number of handovered MS</td>
</tr>
<tr>
<td>For(i=0; i&lt;MS_Number; i++) {</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobile Station ID</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>Access Station ID</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV Encoding Information</td>
<td>variable</td>
<td>optional</td>
</tr>
<tr>
<td>}</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
- Size (bits) refers to the number of bits required for encoding.
- Notes provide additional information about the specific field.

**Syntax**

- `MOB-RSHO-IND_Message_Format()`: The start of the message format.
- `Management Message Type=XX`: Indicates the type of management message, requiring XX bits.
- `MS_Number`: Represents the number of handovered Mobile Stations, requiring XX bits.
- `For(i=0; i<MS_Number; i++)`: Loop to process each handovered Mobile Station.
- `Mobile Station ID`: Identifies the Mobile Station, 48 bits.
- `Access Station ID`: Identifies the Access Station, 48 bits.
- `TLV Encoding Information`: Variable length, optional encoding information.
Text Proposal

Text to be inserted into standard (extracts)

6.3.22.2.2 Descriptions of RS-initiated handover

- the purpose of RS-initiated handover
- RS-initiated handover procedure according to RS capability of handover

6.3.2.3.XX-ZZ Three messages

- MOB_RSHO-IND