MS Handover with Non-transparent RS

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Purpose:
Propose the text regarding MS Handover with Non-transparent RS.

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Requirements on MS Handover in a Multihop Relay System

- The RS procedure shall support MS to handover between access stations in Multihop Relay network without any modification on MS
- The MS handover procedure executed by the RS should be centralized controlled by the MR-BS
- The modifications to legacy Network Entry Procedure should be minimized
Neighbor Advertisement

Network topology advertisement
MS Scanning
(Intra-MR-BS Handover)

Perform Association Procedure with candidate RSs
(similar to IR Procedure)

MS scanning of neighbor access stations
Handover Initiation and Decision
(Intra-MR-BS Handover)

Serving MR-BS

Access RS

MS

- RLY-BST (UL-MAP)
- MOB_MSHO-REQ
- MOB_BSHO-RSP
- MOB_HO-IND (HO_IND_type = 0b00)

- MOB_MSHO-REQ
- MOB_BSHO-RSP
- MOB_HO-IND (HO_IND_type = 0b00)

- MOB_BSHO-REQ
- MOB_BSHO-RSP
- MOB_HO-IND (HO_IND_type = 0b00)

UL-MAP

MOB_HO-IND

BS initiated

MS initiated
Network Entry/Termination for Handover
(Intra-MR-BS Handover)

Perform Handover Ranging Procedure with Target RS
(MS Handover Ranging with RS)

- RLY-BST (UL-MAP)
- MOB_HO-IND (HO_IND_type = 0b01)
- RLY-BST (UL-MAP)
- MOB_HO-IND (HO_IND_type = 0b01)
MS Scanning
(Inter-MR-BS Handover)
Network Entry/Termination for Handover
(Inter-MR-BS Handover)
**Summary**

- Propose RS procedures to assist MS handover should be centrally controlled by the MR-BS
- Propose modified handover procedure for MS through various access stations