

# NEMO Basic Support Capability for Mobile RS ]

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Purpose:

[This document provides an overview of NEMO Basic Support Capability for Mobile RS]

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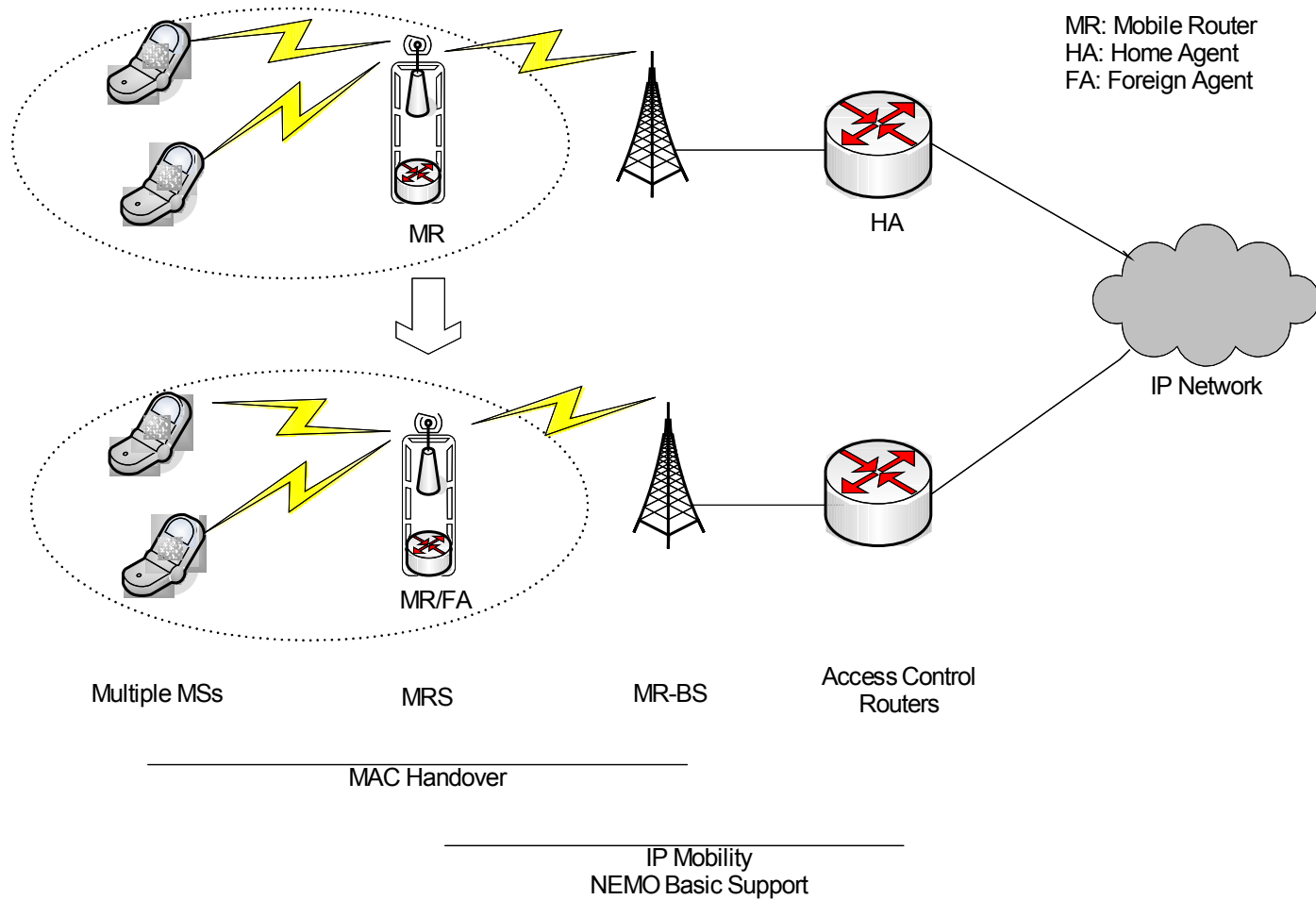
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# NEMO Basic Support Capability



# Highlights for Mobile RS

- Mobile RS attached with
  - MSs and/or,
  - Mobile network (subnet) consisting of IP hosts that do not support mobility
- Mobile RS Applications
  - Trains, light trains (no locomotive engineers), subway, ambulances, ferryboats, etc.
  - Mission critical communications to home network
  - Returns home eventually with mobile network

# Handover and IP Mobility for Mobile RS

- MAC handover for Mobile RS
  - Proposals (C802.16j-06/227r1, etc.) for only MSs
  - Mobile RS for IP hosts with no mobility support
- How to maintain the session of each IP (MSs and IP hosts)
  - Moving into/out of different subnets
  - NEMO Basic Support Capability for Mobile RS

# NEMO Basic Support for Mobile RS

- The Mobile RS has the mobile router function maintaining bi-directional tunnel to a Home Agent advertising to the infrastructure.
- The Mobile RS is the default gateway for the Mobile Network so that the Mobile Network can be only accessed via the Mobile RS.
- The Mobile RS has a unique Home Address reachable to the registered Home Agent.
- The Mobile RS acquires a Care-of-Address (COA) from the visited link.