DMM Approaches with Functional Decomposition

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Functional Decomposition

- Share similar view with draft-chan-dmm-framework-gap-analysis

- Basic Functional Elements
  - MR (Mobility Router) : First hop router
  - LM (Location Management)
  - HAA (Home Address Allocation)

- MRs are deployed in a distributed manner
- LM/HAA could be deployed in centric manner or deployed as distributed database
A dmm administrative domain consists of multiple Local Networks

Each Local Network

- Includes one or multiple MRs
- Includes one HAA and at least one LM

Create Interface among LMs within this domain
- **Home Local Network**: the local network in which the MN performs initial attachment and be assigned with IP prefix/address.
- **Visited Local Network**: the local network the MN is currently attached to.
Optimized Routing Setup Scenario 1

- Buffering first few packets

1. IP Traffic
   └──> 2. Query
       └──> 3. Rsp

4. Record Location of MN1 Locally

5. Distributed Routing
   └──> 6. IP Traffic
Transfer first few packets to MR which assigns IP prefix/address to the MN in its home network.