

LMA Discovery

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Configuration on the MAG

- ❑ Simplest mechanism is to configure the LMA's IP address on the MAG
- ❑ The MAG can be configured to use a particular LMA for the PMIPv6 domain
- ❑ The MAG can also be configured to use a particular LMA based on mobile node's identity

DNS Lookup

- ❑ MAG obtains the IP address of the LMA using DNS lookup
- ❑ LMA's FQDN can be configured locally on the MAG
- ❑ LMA's FQDN can also be obtained from the mobile node's identity
 - If the mobile node presented a NAI, the FQDN can be constructed by concatenating a fixed string with the realm part of the NAI
 - ❑ `_lma.example-realm.com`
- ❑ Similar to the MIPv6 bootstrapping split scenario

Integrated Scenario

- ❑ LMA information is delivered to the MAG during mobile node access authentication procedure
 - For example, the AAA server can deliver the LMA information to the MAG
 - Either an FQDN or the IP address of the LMA is delivered
 - MAG acts as the NAS
- ❑ RADIUS attributes or Diameter AVPs are used to carry the LMA information
 - Diameter extensions are already being considered for adoption in the DIME WG

Based on Service Selection

- ❑ In 3GPP architecture the LMA information is determined based on the service the mobile node requests for or is eligible for
- ❑ Mobile Node can indicate the service it wants in the form of a string that can be resolved to a particular LMA
 - DNS lookup is used for resolving the service name to the LMA
- ❑ The Service Name can also be provided to the MAG during access authentication
 - Based on the mobile node's subscription profile

Handovers

- ❑ When the mobile node attaches to another MAG in the PMIPv6 domain, the new MAG must use the same LMA as the old MAG
- ❑ Two possible solutions
 - Context transfer between the MAGs
 - Use of AAA infrastructure
 - ❑ Information about the LMA that is being used for a particular mobile node is stored on the AAA server
 - ❑ When the new MAG authenticates the mobile node, it obtains the LMA information from the AAA server
 - ❑ Other policy repositories can also be used