GRE Key Option for Proxy Mobile IPv6
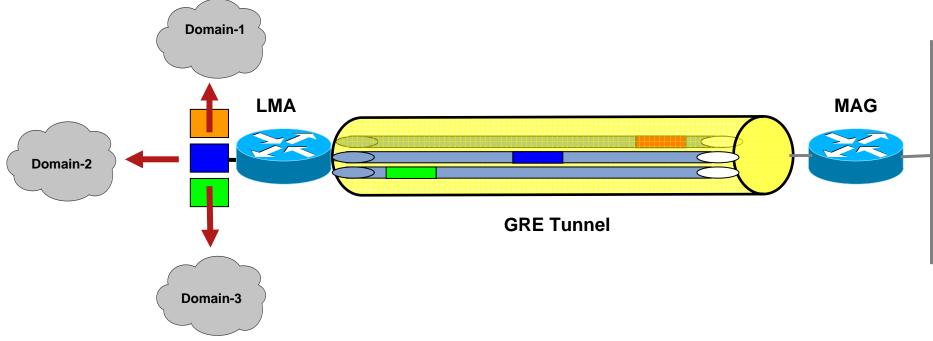
draft-muhanna-netlmm-grekey-option-01.txt

GRE Key Option - Overview

- LMA and MAG negotiate the GRE Key as part of binding registration.

- Implicit negotiation of the GRE tunnel mode as part of the key negotiation.

- The transport mode for the MN's traffic can be:

   IPv6-GRE, IPv4-GRE or IPv4-UDP-TLV-GRE

- Support for Uni-Directional or Bi-Directional Keys

Use Cases

- Key is used as a flow identifier within the tunnel

- Support for overlapping Private IPv4 Addressing

- Differential treatment based on the exposed key

- Key can map to a VRF Instance Id on the tunnel end points

- Use of GRE Tunneling and Key Negotiation in SDO Architectures and Preference, e.g.:
  - 3GPP LTE/EPS
  - 3GPP2 UMB/CAN

Thank You