GRE Key Option for Proxy Mobile IPv6
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