FAST HANDOVERS FOR PROXY MOBILE IPV6

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<draft-ietf-mipshop-pfmipv6-00>
Changes from -03
(other than MH vs. ICMPv6 issue)

- MN-HoA was replaced with MN-HNP
- IPv4 transport support was revised (Section 4.2)
  - Description about IPv4 transport between MAGs (formerly Section 7) was removed
- IANA Considerations were added (Section 9)
- Early Router Advertisement (Section 5)
- Description about NUD/RA on the new link (Section 5)
- GRE Key Option (Section 6.2.5)
PFMIPv6 allows the NMAG to send a RA to the MN before receiving PBA.

If PBA returns a failure code, the NMAG MUST invalidate the HNP by sending a RA with zero prefix lifetime (RFC5213 Section 6.12).
Description about NUD/RA on the new link

- Link change may or may not be hidden from the MN
  - If it is hidden, the MN doesn’t do anything and everything is fine
  - If it is not hidden, the MN performs NUD
    - If the NMAG can respond to it and send a RA, it will save a lot
    - All MAGs are supposed to have the same link-layer and link-local addresses
HI/HAck should be able to transfer three keys: uplink and downlink keys for inter-MAG tunnel, and uplink key for PMIPv6 tunnel.

Either HI or HAck needs to convey two keys and the received MAG needs to distinguish them.

A new field “Tunnel-Type” is added in GRE Key Option defined by “draft-ietf-netlmm-grekey-option”.

Is this PFMIP specific or a more global thing?
Next steps

- Resolve MH vs. ICMPv6 issue and move forward...