PMIP Service Selection

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Why?

- MN may be capable of performing its own mobility signaling.
- Right now if the network offers PMIPv6 service the MN has to use it, since it is not aware of the mobility occurring.
- A PMIP-aware and MIPv6 capable MN would like to signal its preference to the network.

How?

- Based on IPv6 ND messages
  - Uses a modified Router Solicitation Message
- PMIP aware MN sets a bit (the C-bit) in the RS it sends to the MAG
- MAG considers the MNs preference into account when sending the RA
  - It sends a on-link prefix back if the client requested it and policy allows it
  - It sends the home prefix back if the client did not signal its preference or if policy prevents it

How? (2)

- Fully backward compatible
  - Mobility unaware nodes will work as expected
  - Mobility aware but PMIP unaware MNs will also work as expected (they will get PMIP service)
- Bandwidth Efficient
  - Uses 1 bit in Router Solicitation message.
- Processor Efficient
  - The bit is easily accessible and processed by the MAG

Further Steps

- Is the WG interested in solving this problem?
- If so, what more needs to be done?
  - Indication
  - Negotiation
  - …
- Other related drafts
  - draft-damic (also ND based, provides PMIP availability indication from the network)
  - draft-xia (EAP based selection)

Questions?

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