Inter-Technology Handover for Proxy MIPv6

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Inter-Technology Handover – Problem Space

• Scenario: Handover from previous interface (pIF) to new interface (nIF)

• Issue with inter-technology handover:
  – Set up and configuration of the new interface might take time
  – LMA forwards data towards the new interface after BCE update
  – Implies major packet delay (buffering ?) or packet loss

• PBU cannot be delayed (nMAG retrieves configuration data for MN)!

![Diagram of LMA, MAG1, MAG2, pIF, nIF connected by arrows representing downlink.]
Preliminary Binding as Solution

→ Use previous interface until new interface is ready

- Classify result of first inter-technology PBU as PRELIMINARY
  - PBAck allows new MAG to generate RtAdv (+HNP)

- LMA updates BCE, but keeps forwarding state of previous binding

- PRELIMINARY binding must be activated
  - From new MAG via signaling (e.g. activating PBU)
  - From other components (LMA local or remote activation control)

- After activation: LMA forwards data according to the updated BCE