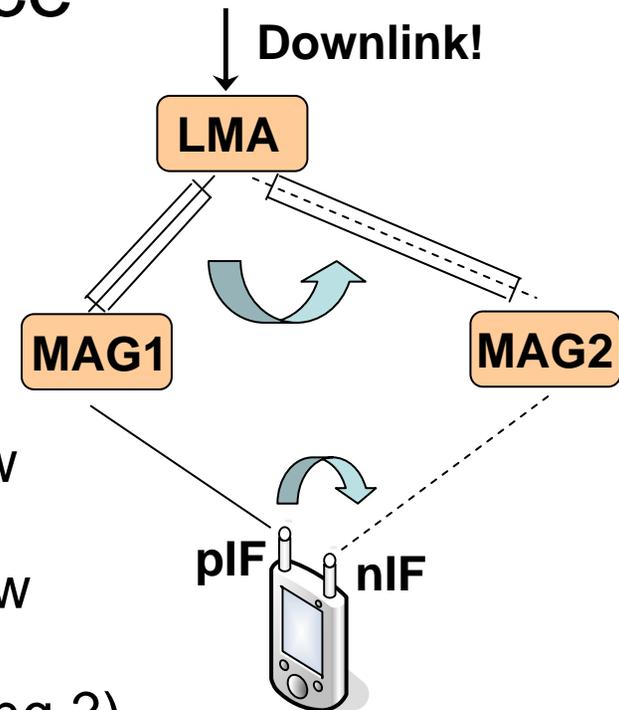# Inter-Technology Handover
for
Proxy MIPv6

Long Le, Marco Liebsch

draft-liebsch-netlmm-intertech-proxymip6ho-00.txt

NetLMM WG
IETF#70, Vancouver
3rd December 2007

Inter-Technology Handover – Problem Space

Downlink!

LMA

MAG1   **MAG2**

pIF   **nIF**

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

- Issue with <u>inter-technology</u> 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) !

Preliminary Binding as Solution

→ Use previous interface until new interface is ready

- Classify result of first <u>inter-technology</u> PBU as <u>PRELIMINARY</u>
  - 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