Fast Mobile IPv6 Handovers

draft-ietf-mipshop-fast-mip6-00.txt
(draft-ietf-mobileip-fast-mip6-08.txt)

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Changes since to IETF 57

- A. Change Log

  The following changes have taken place since the previous version. The Section numbers refer to version 06.

    - Revised the security considerations section in v07

    - Refined and added a section on network-initiated handover v07

    - editorial changes in Section 3 and 4

    - Description in Section 4.4 merged with ``Fast or Erroneous Movement''

    - Section 4.5 deprecated

    - Section 4.6 deprecated

    - Revision of some message formats in Section 6

Input from ML for LC

- "Page 19, Code Value =0, isn't it a must to provide New Prefix Information? Otherwise, no way to construct New CoA."

  Change SHOULD to MUST in PrRtAdv message for the appropriate case

- "Page 30, The LLA option: length in 8 octet units is not desirable due to the Sub-type field"

  Change length to octets ? Remove Sub-Type field, extend Type field ?

- "What is the lifetime of NCoA when supplied by NAR in NAACK ?"

  Specify same as the lifetime for the Prefix in the router advertisement

Input from ML on LC

- "Change destination address of FBack to source address of FBU"

MN may move without waiting for Fback; current spec works fine

Option to send FBack on old links exists

- "PAR should start buffering after processing FBU, and not after processing PrRtSol with 'U' bit set to reduce buffering delay"

No need for PAR to buffer after processing FBU; starts tunneling

PAR optionally buffers (in a small buffer) and forwards. Is the delay really a concern ?

Input from ML on LC

- "Provide indication of PAR supplying NCoA in Fback, e.g., via code=0, NCoA=all zeros"

Need unclear

- "Where to specify link-layer triggers ?"

Perhaps in a separate document

Other input

- Using PrRtAdv both as a response to PrRtSol and as a handover trigger: specify more explicitly

Code=0 and presence of NCoA option serves as a handover trigger

Use a different Code value (e.g., 4) all together ?

New attachment point LLA option is necessary

- Identifier value in gratuitous PrRtAdv could create re-transmission confusion

Set Identifier = 0, MN must not use 0 in PrRtSol

Other input

- How does PAR know MN's IP address when sending PrRtAdv gratuitously

Knowing the L2 address, a lookup of ND cache or inverse ND should provide IP address

- PrRtAdv needs Prefix Valid Lifetime and Prefix Preferred

Yes, include them in New Prefix Information option

- Determining NAR's address from FBU

Perform longest prefix match on neighborhood AR map ?

Extend FBU with target AP-ID ?

Other input

- How does PAR know FBU is sent from new link ?

Important because HI processing at NAR could be redundant

Source IP address = NCoA (as opposed to PCoA when FBU is sent from old link)

- Matching FNA with NAACK

NAACK is only sent when there is address collision. So, under specify ?

Include a sequence number in both the messages ?

Other input

- Misc fixes
  - Editorial
  - NCoA valid case in NAACK is unnecessary