IPv6 over
Network based Mobile IPv4
draft-navali-ip6-over-netmip4-00.txt

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Introduction

• Network based Mobile IPv4 can be leveraged to provide mobility service for IPv6
• The mobiles nodes with IPv6 stack can acquire IPv6 address by number of ways e.g. IPv6CP and RA and DHCPv6
• The solution described in this I-D defines these scenarios
Solution Components

- Dual Stack HA that can assign the IPv6 HoA or IPv6 prefix
- The IPv6 prefix (HoA prefix) can be either shared or can be unique per mobile node
- Any v6 over v4 tunnel should suffice between AR-HA and HA to IPv6 core
- The MN need not be dual stack
Illustration of the Connectivity Scenario
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OTA Link Setup

IPv6CP or DHCPv6

RRQ, CoA1, HoA-Request-ext= IID

Serving BS

Serving AR/FA

RRP, CoA1, HoA-ext= IPv6 HoA

HA
Proposed MIP4 Extensions

- IPv6 Home Address Request Extension
Proposed MIP4 Extensions

- IPv6 Home Address Extension

```
  0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
+---------------+---------------+---------------+---------------+
| Type          | Length        | U | Reserved    | IPv6 HoA .... |
+---------------+---------------+---------------+---------------+
```
Next Step?

- Begin the work in MIP4 working group?