

Distributed Deployment of Mobile IPv6

IETF80

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Brief Report of DMM Design Team Meeting

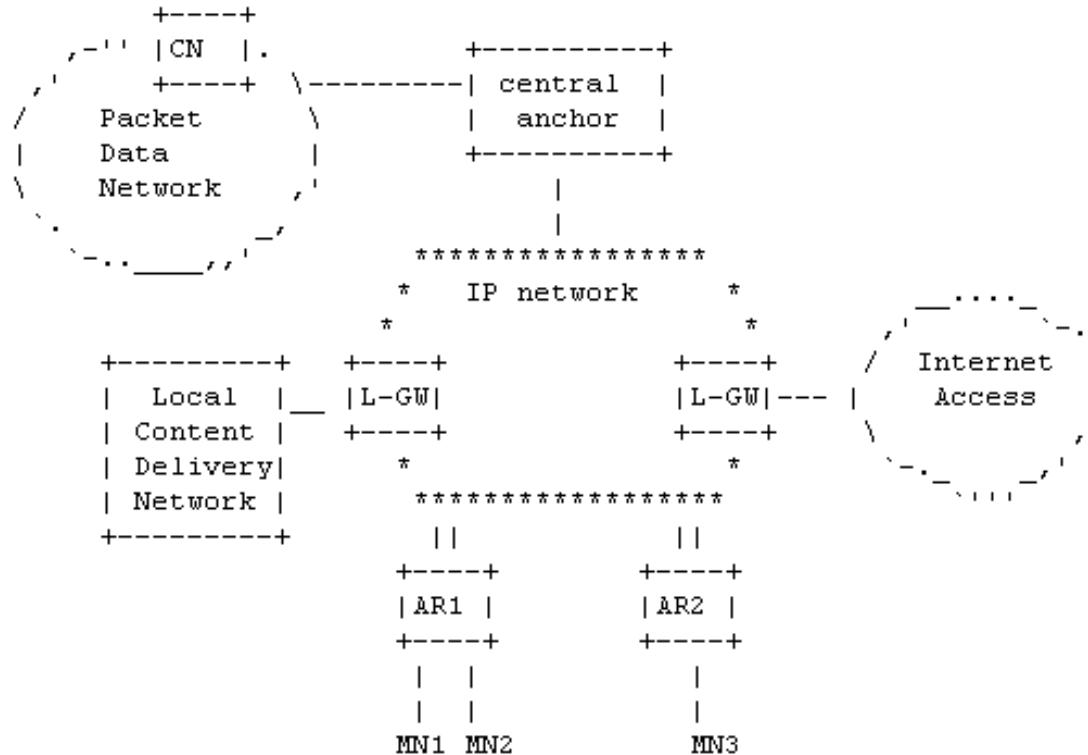
- Wednesday evening, 16 people join the discussion
- Viewpoints
 - DMM maybe a good chance to help mobile IP been deployed
 - Traffic offload/CDN/Cache in mobile network
 - MEXT DMM drafts
 - Distributed Deployment of Mobile IPv6
 - draft-liu-distributed-mobile-ip-00
 - Approaches to Distributed mobility management using Mobile IPv6 and its extensions
 - draft-patil-mext-dmm-approaches-00
 - A IPv6 Distributed Client Mobility Management approach using existing mechanisms
 - draft-bernardos-mext-dmm-cmip-00
 - Other ideas that not in MEXT charter
 - Signaling/data separation of mobile IP
 - Distributed anchor
 - Routing optimization

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draft-liu-distributed-mobile-ip-00

Scenario

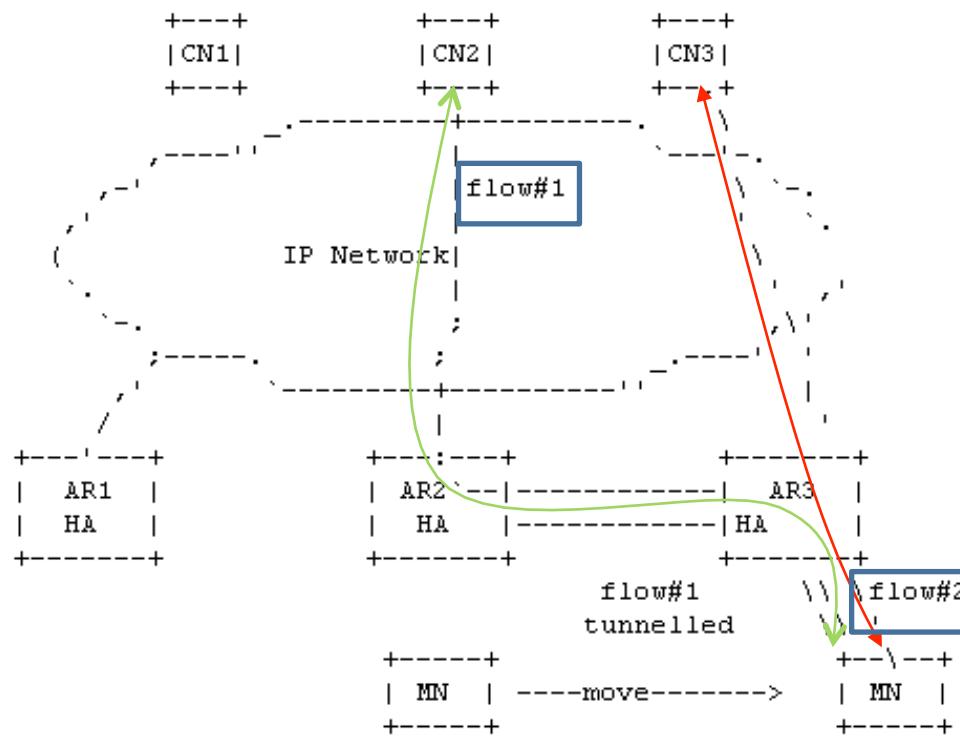


- Traffic offloading
- Content distribution



- Distributed Deployment of Mobility Anchor

One Possible Approach – Dynamic anchoring



- Implement the HA functionalities in the access routers/L-GW.
- Flow#1 will be routed in a standard way as long as the MN remain attached to AR2.
- Flow#2 will be routed to AR3, if flow#1 anchorage against the AR2, not in attached to AR2 HA.
- If MN starts a new way as long as the MN remains attached to AR3; flow#2 will be routed in a standard way as long as the MN remains attached to AR3; flow#2 will be

Open Issues

- 1. multiple home address selection
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 - The applications on the mobile node need to select the right home address to maintain the session continuity
How many home addresses the MN should have?
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 - 2. HA selection
 - The MN has multiple HA configured, need to know which one to send the BU
- 3. CN initiate communication
 - MN may have several Home Address, which one CN
 - MN may have several Home Address, which one CN

Next Step

comparation different approaches

- Q&A?