Enhanced mobility anchoring wt

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changes

- draft-chan-dmm-distributed-mobility-anchoring-07
  - added description of distributed anchoring: configurations, behaviors, and message information
  - reorganized mobility solutions using distributed anchoring
- (addressed comments from prior meetings)
Changes in 07 from 06

تان 3. Distributed anchoring

- 3.1. Distributed anchoring configurations
- 3.2. Distributed anchoring behaviors and message information elements
  - 3.2.1. Location management behaviors and message information elements
  - elements
  - 3.2.2. Forwarding management behaviors and message information elements
Changes in 07 from 06

4. Example mobility solutions with distributed anchoring

4.1. IP mobility support only when needed
   • 4.1.1. Not needed: Changing to the new IP prefix/address
   • 4.1.2. Needed: Providing IP mobility support

4.2. IP prefix/address anchor switching to the new network
   • 4.2.1. Centralized control plane
   • 4.2.2. Hierarchical network
   • 4.2.3. Hierarchical network with anchoring change
What I have is only borrowed from God so that I may serve others. — H. Anthony Chan

Mobility support not needed: change to anchor in new network

<table>
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<tr>
<th>CPA</th>
<th>LMs</th>
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DPA(IPa1)

FM-DP

⚓

IP1

MN(IP1)

Flow(IP1, ...)

Mobility controller

L2

[move]

DPA(IPa2)

FM-DP

⚓

IP2

MN(IP2)

Flow(IP2, ...)
IP mobility support needed: move IP anchoring to new network.

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Move IP anchoring to new network with hierarchy

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Backup Slides
Change to IP prefix of new network

MN

- MN attach to p-AR: acquire RS
- MN-ID and profile

< RA (HNP1)

IP addr config

Flow(IP1, IPcn, ...)

MN detaching from p-AR

MN attaching to n-AR

RS (HNP1)

< RA (HNP2)

IP addr config

new flow(IP2, IPcn)

MN

AR1

AR2

DHCP servers

Allocate prefix P1

Allocate prefix P2

CN
Move IP anchoring to new network

MN attach to p-AR: acquire MN-ID and profile
RS

RA (HNP1)

IP addr config
Flow(IP1, IPcn, ...)

MN detaching from p-AR
MN attaching to n-AR
RS (HNP1)

DHCPv6 release

RA (HNP2) forwarding table update
IP addr config
flow(IP1, IPcn)

flow(IP1, IPcn) terminates
new flow(IP2, IPcn)

forwarding table update

Allocate prefix P1

DHCPv6-PD request
DHCPv6-PD reply

Allocate prefix P2

DHCPv6-PD timeout

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