Separation of Control and User Plane for Proxy Mobile IPv6

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Motivation

1) Proxy Mobile IP (RFC5213)

![Diagram showing Proxy Mobile IP (RFC5213)]

**Needed:** user-plane and control plane separation between MAG and LMA

2) Can use Alternate CoA mobility option for separation at MAG

![Diagram showing Alternate CoA mobility option]
Need separate user plane connection between MAG and LMA

3) LMA User Plane Address Mobility Option

- A new message is needed to enable separation at LMA.
Use Cases: Service Provider WiFi

“WLC”: Wireless LAN controller

“WLC” (Wireless LAN controller) is connected to MN (Mobile Node) via LMA (Local Mobility Anchor). WHC/MAG (Wireless Handoff Controller/Mobile Agent Gateway) is also connected to LMA. This setup provides Internet connectivity for MNs.

Using Alt-CoA (Alternative Connectivity Anchor):

- MN connects to WLC/MAG
- WLC/MAG connects to LMA
- LMA provides Internet access

Also using new LMA option:

- MN connects to WLC/MAG
- WLC/MAG connects to Router
- Router connects to LMA
- LMA provides Internet access
LMA User Plane Address Mobility Option
**Next Steps**

- Currently netext working group draft (thanks!)
- There is good support on mailing list.
- An editorial revision will be submitted by next week
- If there are no technical issues, will be ready for last call afterwards.