Socket API extensions for On Demand Mobility Management

draft-ietf-dmm-ondemand-mobility-10

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Updates since IETF-97

- Version 07 completed WGLC and was forwarded to IESG

- In IETF-97 the WG decided to merge –
  draft-sijeon-dmm-use-cases-api-source
  with this draft

- The new merged draft –
  draft-ietf-dmm-ondemand-mobility-08
  was re-submitted to WGLC

- Several comments received, leading to version 09 and 10. The main changes were:
  - Improve text to indicate that the network provides an IP prefix to the device (rather than an IP address)
  - Add a usage example (c code)

Blocking vs Non-Blocking Function

One concern on the list, was a possible confusion due to the nature of the OnDemand extensions causing the setsockopt() function to become 'blocking' when the call triggers packet exchange with the network

The following alternatives were suggested:

1. Define a new function for OnDemand features

2. Define a new option type for OnDemand features: IPV6_MOBILITY_ON_DEMAND

3. Leave the OnDemand flags under the IPV6_ADDR_PREFERENCE option type (as currently specified in the draft)

Any preference?

Support Future On-Demand Types

In addition to the On-Demand types specified in this draft (Fixed, Session-Lasting and Non-Persistent), there may be more required in the future (like 3GPP – SSC Mode3).

We could modify the 3 bit flags to a 3 bit field which can support up to 7 different On-Demand types:

0 – No On-Demand request

1 – Fixed

2 – Session-Lasting

3 – Non-Persistent

4-7 – Vendor-specific

Any comments?

Next steps

- Make last changes –
  - New option type?
  - Vendor-specific On-Demand types?

- Resume WGLC