MN Status Option for Proxy Mobile IPv6 YangweiTu(ZTE)

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Background

- PMIPv6 deployments support communication using multiple access technologies simultaneously.
- The PMIPv6 flow mobility draft specifies extensions for the traffic/IP flow to be moved from one access type to another.
- The PMIPv6 flow mobility draft assumes a Mobile Node connectivity status of (1) connect or (2) disconnect. However some access technologies allow for a MN status of *sleep or idle mode*.

Identified Problem

- For flow mobility the LMA essentially decides the routing rules for the specific IP flow (s), however,
 - the connectivity status of a node in sleep (idle) mode for a specific is not carried to the LMA.
 - so that it is impossible to guarantee the flow mobility can be done successfully.









Initial idea for addressing issue

 A new option is defined for using it in messages (PBU/ PBA) exchanged between MAGand LMA.



Figure 1: MN Status Option

- MN-status Length
 - 8-bit unsigned integer indicating the length in octets of the option, excluding the type and length fields.
- Mobile Node status
 - The status of the mobile node attached from a specific accessnetwork, such as WiFi,WiMAX and 3GPP. Currently the value of the MNstatus can be as follow:1,connect mode,2,disconnect mode, 3,idle/Power saving mode,4,reserved.

Next steps

If the working group agrees that this is a problem and that the NETEXT resolve this issue.