Personal Mobile Router

NEMO WG, IETF 67
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Goal

• Show an use case for NEMO in the personal mobile router space
Personal Mobile Router

• Could be a cell phone or a wireless router
  – Uplink is a cellular link
  – Downlink would be WLAN/Bluetooth/etc

• Acts as a personal gateway for each user providing connectivity and mobility to devices owned by the user

• Operator configured
Personal Mobile Router

Operator Network

NEMO HA

NEMO Tunnel over a cellular link

Mobile Router

Personal Area Network WLAN

CN
Current Situation

• Many such devices are available in the market today
  – IPv4
  – Typical solution is to use a NAT on the mobile router

• A solution would be needed for IPv6
  – Many CDMA operators plan to use MIPv6
    • Not enough MIPv4 home addresses to hand out
  – NEMO is a candidate here
Route Optimization

- Route optimization would be nice to have between two personal mobile routers
  - Otherwise all traffic between two mobile routers goes through the Operator home agent all the time
  - “Local breakout” is an attractive feature

- Good thing is that both mobile routers belong to the operator and are configured by the operator
  - Makes the solution a bit easier
  - These are not two random mobile routers