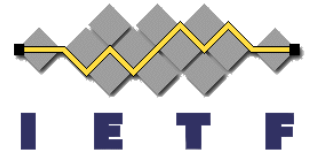


Controlling Traffic Offloading Using Neighbor Discovery Protocol

IETF#83 Mif WG, 29 March 2012
draft-korhonen-mif-ra-offload-04

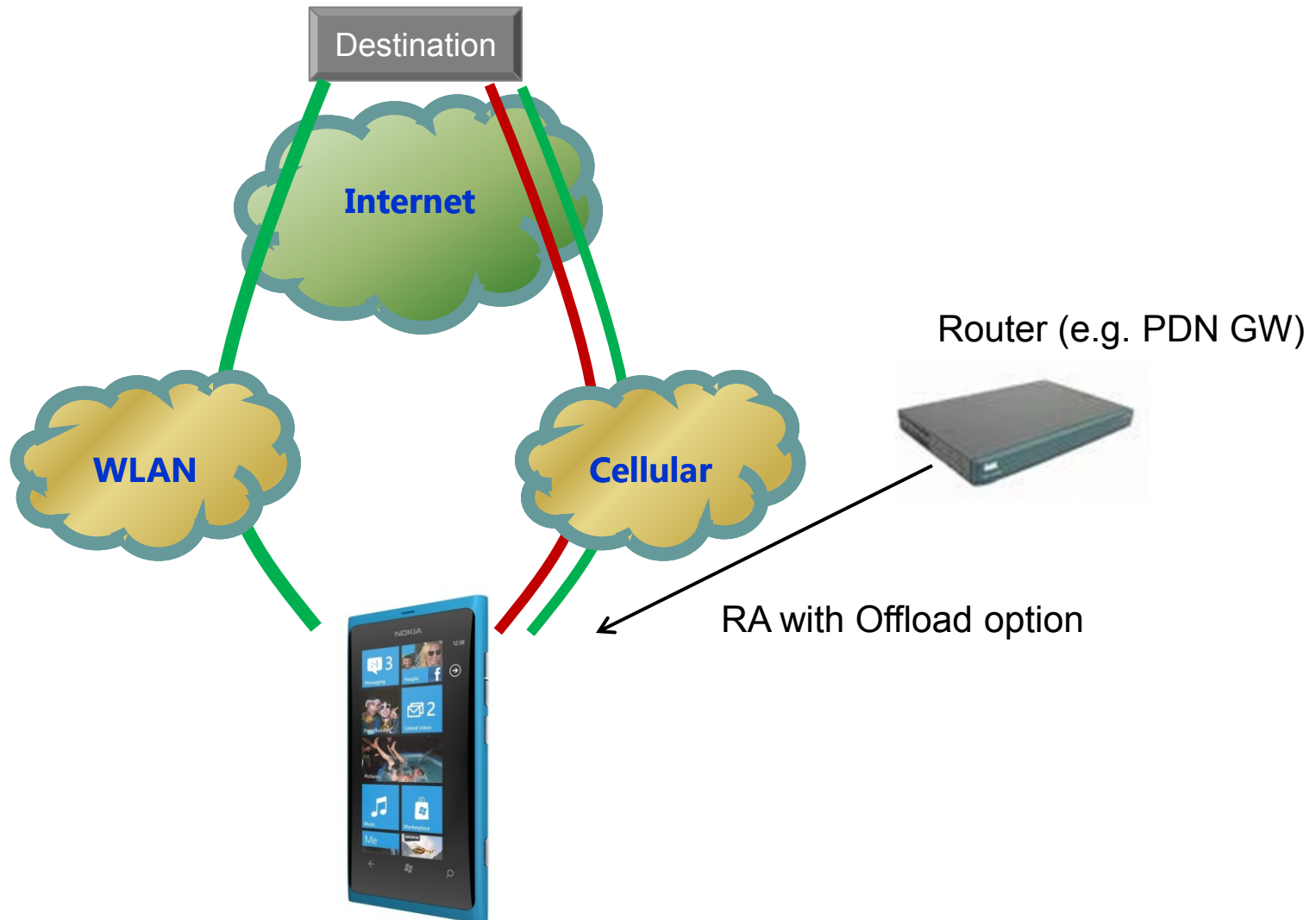
Aaron Yi Ding
Jouni Korhonen
Teemu Savolainen



Proposal update

- Typical scenario
 - Hosts equipped with 3G and WiFi interfaces
 - Offload cellular traffic to WiFi and vice versa
 - Dual stack 3G and possible dual stack WiFi
 - DHCP unavailable for hosts and access network
 - Mobile network driven
 - Not mandatory scenario

Proposal update

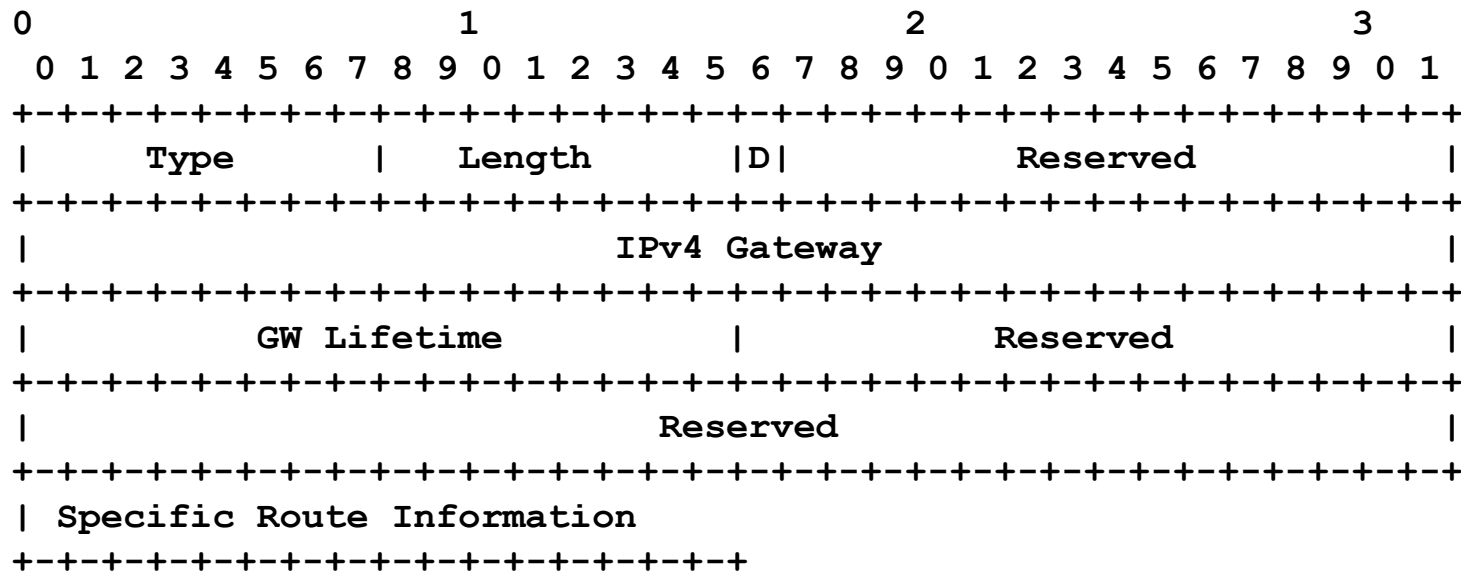


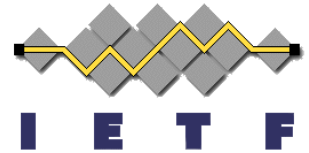
Proposal update

- Offload option in RA for IPv4 traffic offloading
 - Extensibility of ND
 - Push model
 - Complement RFC4191 of IPv6 offloading
 - ND deployment in mobile environment
 - DHCPv4 unavailable
 - Transition phase IPv4-to-IPv6
 - Default router
 - Specific routes

Proposal update

- Offload option
 - D bit
 - Length = 2 + n





Current status and summary

- Prototype implementation
- Feasibility test in live network
- Light-weight, on-demand offloading from network side
 - 3G as commanding channel
 - Efficient and avoid colliding wishes
 - Multi-interface oriented
- Next ?