QMesh: a QoS Mesh Network with Mobility Support

http://www.comnet.technion.ac.il/magma/qmesh/index.htm

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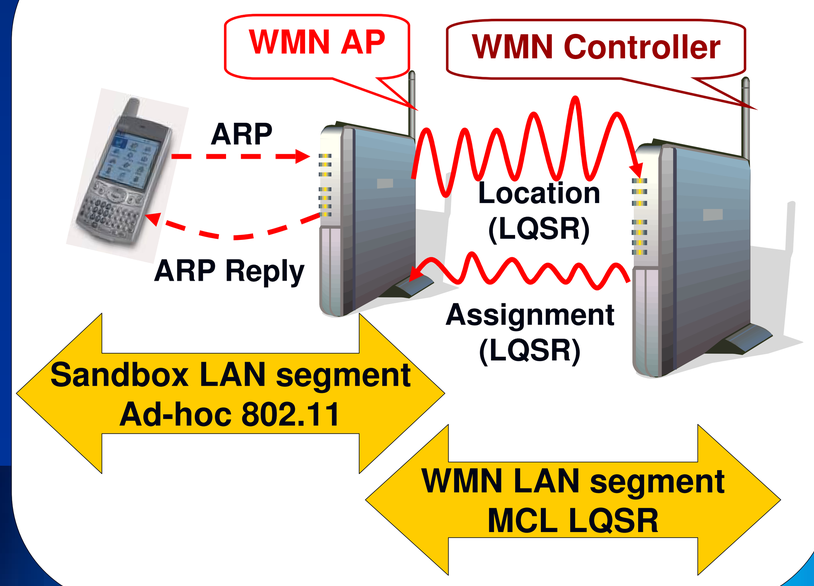
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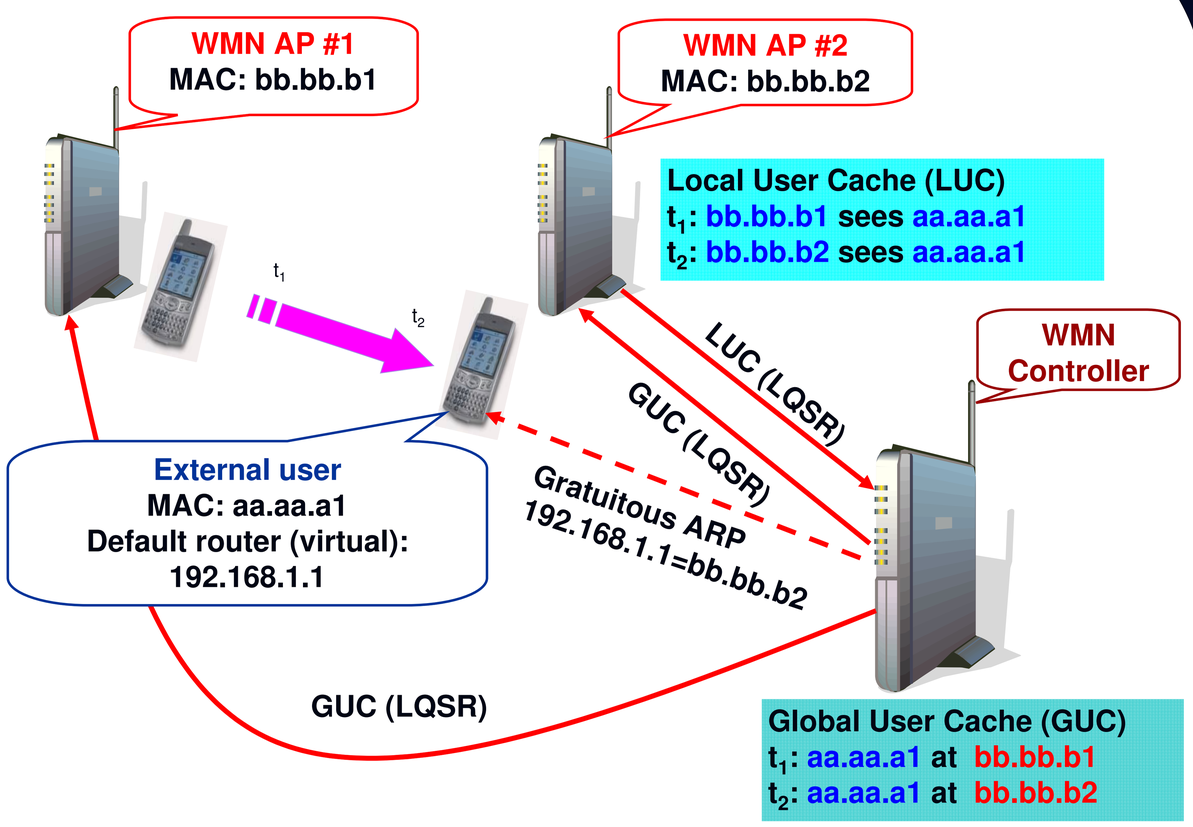
Highlights

- **Novel WMN solution within the Windows XP kernel**
  - **Leverages the Mesh Connectivity Layer (MCL)** Microsoft Research
- **Seamless mobile WLAN access for external users**
  - **No client software, standard mobility support (3 alternatives)**
- **Centralized management for QoS-aware user assignment**
  - **Gateway selection policies consider distances and loads**

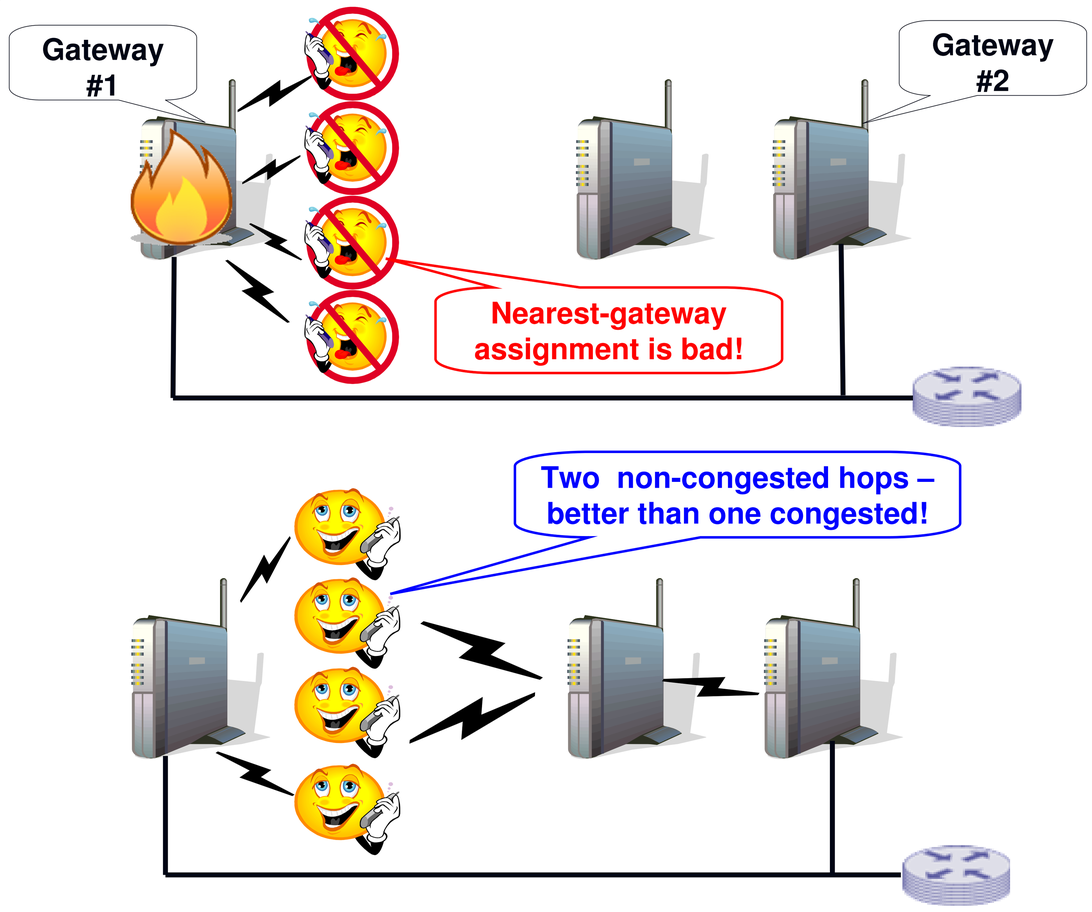
Address Resolution



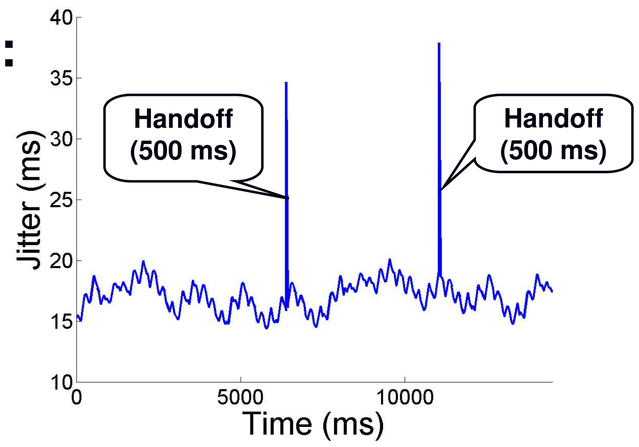
AP Handoffs with Gratuitous ARP



Load-Distance Balancing



Single VoIP stream: Handoff performance



Multiple VoIP streams: Impact of LD-Balancing

