LTE-Xtend (ATC 16)

• Tunnel Option Customization
  – Categorize tunnels based on device
• Centralize control plane functions
• Group Tunneling
  – Group multiple devices in same tunnel
Possibilities
Reduce Mobility Overhead

• Massive IoT deployment
• Not all devices are going to be mobile
  – Indoor static devices
  – Within the building movement
• Large portion of signaling overhead is due to mobility concerns
  – Reconfigure protocol to reduce this overhead for static devices
IoT Manager

• Many IoT devices may run single application
• Use an IoT manager in EPC to better manage these devices
  – Group services for multiple IoT devices in one connection
  – Non-real time services can be delayed if network is overloaded
    • Store states and initiate connections when needed