

# Key Objectives in SA for Rel-12

Paul Carpenter - Research in Motion UK Ltd.

3GPP SA#58, 10-12 Dec 2012, Barcelona



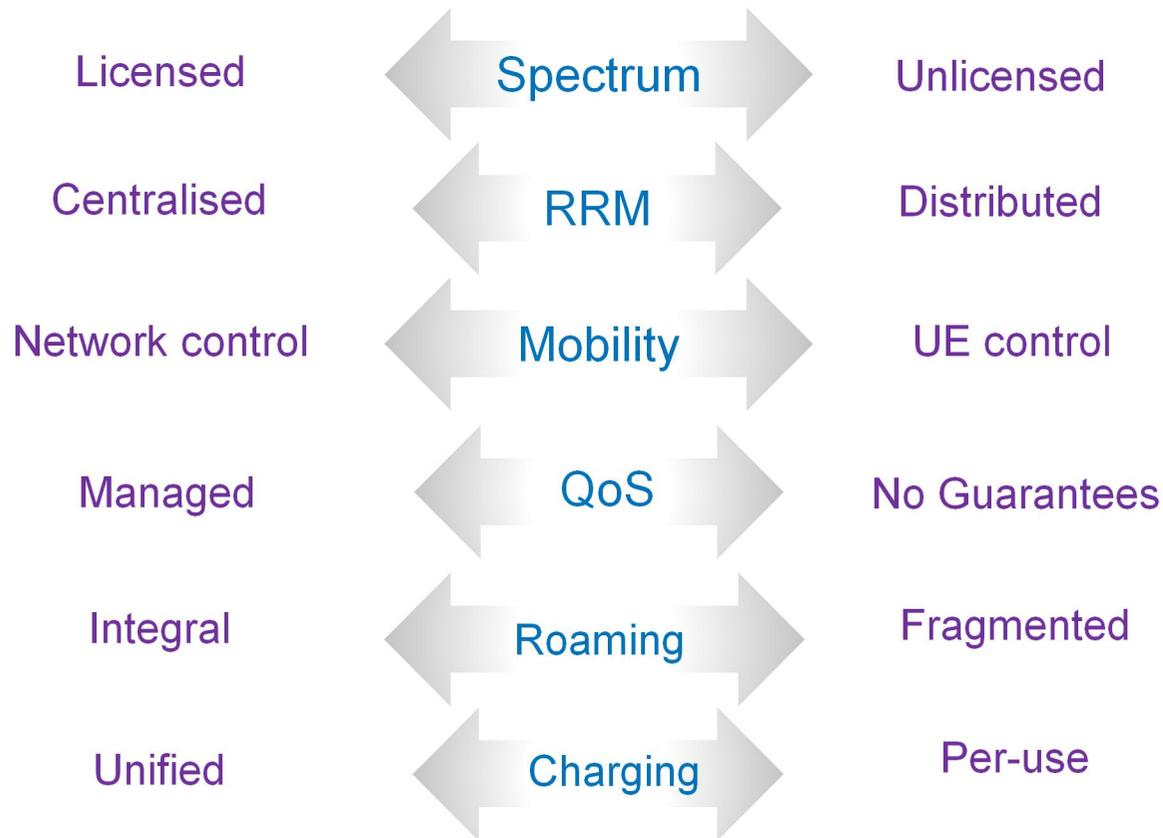
# 3GPP/WLAN Interworking

# Trends and Background

- Continued rapid growth of data volume
- Heavy pressure on spectrum, capacity, resources
- Solutions:
  - Small cells
  - Maximised use of all available spectrum
- WLAN: a key component
  - Maturity of technology
  - Existing installed technology base



# Paradigms

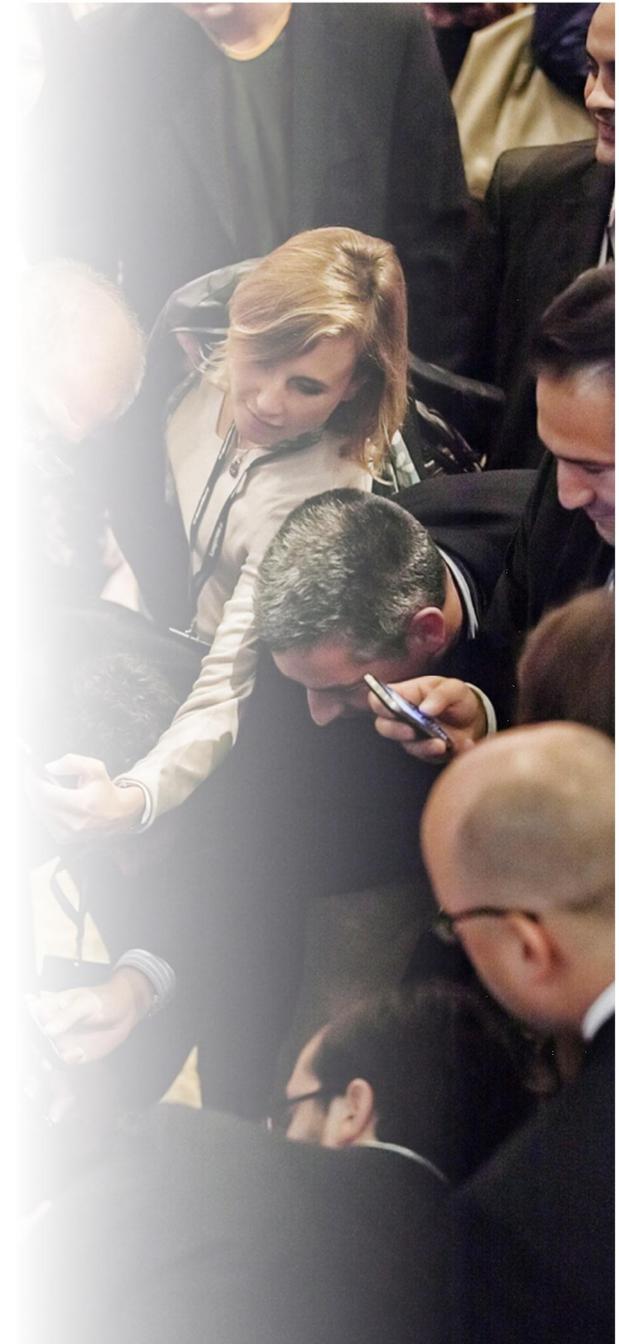
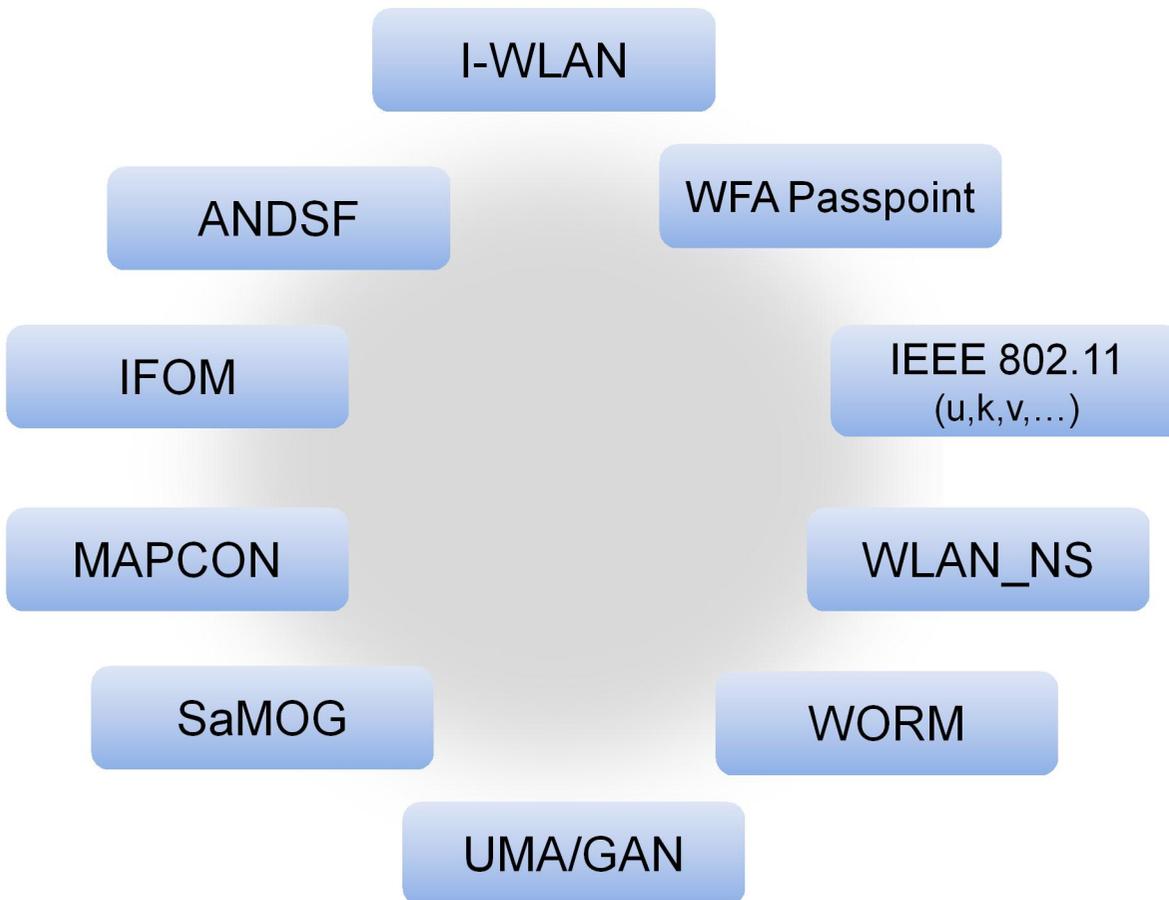


# Requirements

- Seamless authentication
  - Including billing and roaming aspects
- Seamless mobility / network selection
- Continuity and discovery of service
- Inter-system QoS management
- Routing of services
  - IP interface, RAT, APN, PLMN, ...



# Standards



# Rel-12 Focus

- Industry consensus → drive scale and adoption
  - Holistic approach
    - Unified technical solution
  - New functionality where needed
  - Improved co-ordination
    - IEEE, WFA, GSMA, GERAN, RAN, CT, WBA, ...
- Continue work on ongoing related work/study items:
  - WLAN\_NS, FS\_SaMOG, FS\_WORM
  - Ensuring these are considered within the wider framework
- Promote the development of a unified technical solution
  - Discuss within TSG SA how to best help the industry achieve this objective



The background is a solid blue color with several overlapping, semi-transparent shapes in various shades of blue, including circles, squares, and irregular polygons, creating a layered, abstract effect.

# Proximity Services and Support for Public Safety

# Trends and Background

- In numerous jurisdictions, national public safety authorities are either embracing LTE/EPC or are considering its merits against alternatives
- This represents a significant commercial opportunity for the LTE industry



# Requirements (1)

- Existing EPS functionality goes a long way towards fulfilling the requirements
- However, clear inputs from public safety organisations show that the following are of high importance:
  - Group Communications
  - Direct and Localised Communications
  - Device Proximity Discovery (as an enabler)
- Such functionality may also play a role in commercial/social applications



# Requirements (2)

- Continuity of Service
- Adaptive (re)routing during mobility
- Resilience / Reliability
- Security



# Rel-12 Focus

- Building on FS\_ProSe:
  - Requirements in SA1:
    - Content more important than classification
      - “Public Safety” vs. “Commercial”
    - However, requirements must comprehensively meet public safety sector needs to ensure LTE adoption
  - Important that Stage 2 and Stage 3 normative work completes within the Rel-12 timescale
    - Aim to define common underlying functionality irrespective of whether the application is commercial or public safety
- This is a key opportunity for LTE
- Prioritisation required to ensure on-time delivery

