

# MISSION CRITICAL VOICE OVER LTE

Kris Patel, CTO, Kodiak

March 18, 2015

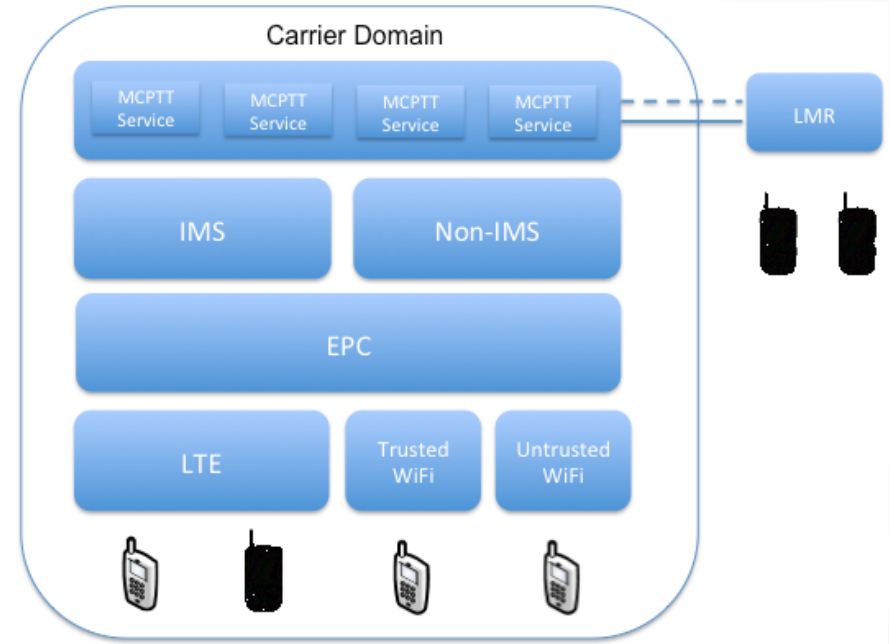
IWCE 2015 – Las Vegas, NV

- Limitations of existing LMR systems
  - Coverage constraints
  - Connectivity limitations
  - Low data capability
- Ubiquitous coverage of high-bandwidth LTE and Wi-Fi networks
- Availability of smart devices that support integration of PTT with other mobile applications on a single device
- Availability of standards-based (OMA PoC/PCPS), high-performance broadband PTT technology

- MCPTT under 3GPP
  - OMA, ETSI (Tetra), 3GPP all under 3GPP
  - No fragmentation across SDOs
    - Avoiding standards ambiguity
    - Avoiding cross SDO collaboration
- 3GPP Delivers
  - Confident about 3GPP delivering on standards
  - Organization with a history of delivering
  - Wide participation including OMA PoC, Tetra, PMR communities
- Harmonizing
  - Challenge of harmonizing OMA PCPS (PoC), Tetra, P25
  - Today OMA PoC/PCPS is the most widely deployed PTT over Broadband technology
- Kodiak contributes PoC expertise to standards

- Coverage
  - Uniform coverage
- Reliability
  - End-to-end performance
- Carrier supported enablers
  - QoS, Priority & Preemption
  - Robust LTE & EPC network (continuously improved)
  - GCSE (eMBMS), ProSe, MCPTT
  - Carrier & OEM certified devices
- Optimized Network performance
  - Solution performance beyond application

- Fully Standardized solution (PCPS/MCPTT)
- Connectivity
  - LTE (carrier coverage)
  - WiFi, Wireless/Wired, IMS/Non-IMS
  - LMR Interoperability
- Resiliency
  - Multi-site geo-redundant deployment
- Carrier Integrated Deployment
  - End-to-end Performance
  - End-to-end Security
  - Integrated operations processes & practices
  - Tested & certified devices
  - Drive testing to assure performance & audio quality
  - Hardened sites & redundant facilities



- Kodiak partners with nationwide carriers for commercial PTT
- Kodiak PTT over Broadband solution is based on OMA Standards:
  - OMA PoC/PCPS
  - OMA XDM
  - OMA Presence
- These deployments will be converted to support MCPTT when MCPTT standardization is complete

Thank you!

MISSION CRITICAL VOICE  
OVER LTE

Kris Patel, CTO, Kodiak

March 18, 2015

IWCE 2015 – Las Vegas, NV