

# Public Safety LTE: A Global Assessment of Market Size, Technology, Vendor Trends and Spectrum Allocation 2015 - 2020

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#### **Abstracts**

Considered as the de-facto standard for Public Safety broadband communications, LTE is rapidly gaining momentum within the Public Safety industry. As a result Public Safety agencies, vendors and service provider are heavily investing in Public Safety LTE, with commercial deployments in both the North America and the Middle East region.

While initial investments appear promising there still remain a number of key issues that need to be addressed such as frequency spectrum allocation, funding for private LTE network deployments, QoS prioritization of users in commercial networks, and interoperability with legacy Land Mobile Radio (LMR) systems such as APCO 25 and TETRA.

This report provides an in-depth of the global Public Safety LTE industry to address the aforementioned issues, in addition to providing a detail assessment of the technology, market size, and key trends within the Public Safety LTE industry. All purchases of Mind Commerce reports includes time with an expert analyst who will help you link key findings in the report to the business issues you're addressing. This needs to be used within three months of purchasing the report.

The report covers the following topics:

Global Spectrum Allocation for Public Safety LTE: A global assessment of spectrum allocation and funding for Public Safety LTE deployments, based on input from regional regulatory authorities.

Global Public Safety LTE Market Size, Contracts & Trials: A global review of the



worldwide Public Safety LTE market including assessment of revenue share by market segment (infrastructure sales, services, user device sales, etc), and a review of global contracts and trial engagements.

RAN Sharing and Roaming: The term 'RAN sharing' refers to sharing of actual eNodeBs. As part of this arrangement, each operator accesses the shared RAN with its own EPC. Vendors are also considering the implementation of Inter-PLMN handover (as opposed to roaming) and then for LTE Commercial carriers to deploy Policies for Service Level Agreements that include Priority Access (Access Class Barring, Preemption and ARP) and QoS/ QCI assignment for default and dedicated bearers. The report assesses in detail how many of vendors and commercial carriers will support RAN sharing, roaming and inter-PLMN handovers which will be key factors towards the adoption of commercial LTE RANs for Public Safety applications.

Global QoS Requirements for Public Safety LTE Communications: A detailed assessment of global requirements for Priority access and High QoS for Public Safety subscribers, for shared commercial LTE networks, while they roam on to Commercial Networks.

Public Safety LTE Devices and End User Applications: An assessment of device usability characteristics, Multi-Radio LTE/LMR interoperability technology, Software and Applications (VoLTE, PTT over LTE, IMS, IP).

Vendor Trends and Roadmaps: A detailed assessment of solution portfolios and roadmaps for major infrastructure/ device vendors and system integrators

LTE-Advanced Support for Heterogeneous Commercial/LMR Networks: In-depth assessment of the LTE Advanced standard and technologies and spectrum planning for Fixed/Nomadic based Pico Cells/Femto Cells and mobile base stations (e.g. LTE Cell on Wheels (CoW)) and proximity based services such as Direct Mode Operation (DMO) in LMR systems, which have broad implications for the adoption of Public Safety LTE services.

LTE based Public Safety Tactical Systems and Military Applications: Detailed market assessment of LTE based Public Safety Tactical Systems such as CoW, Cell over Light Trucks (COLTs) and Military Applications for LTE.



### **Target Audience:**

System Integrators

Public Safety Agencies

LMR Radio Manufacturers

Cellular Network Operators

Smartphone Manufacturers

Public Safety Network Operators

LMR Infrastructure Manufacturers

Public Safety Application Developers

Mobile Computing Equipment Manufacturers

Cellular Network Infrastructure Manufacturers



#### **Contents**

#### 1 INTRODUCTION

- 1.1 Executive Summary
- 1.2 Topics Covered
- 1.3 Key Findings
- 1.4 Key Questions Answered
- 1.5 Target Audience
- 1.6 Companies Mentioned

#### 2 PRESENT OVERVIEW OF THE PUBLIC SAFETY LTE MARKET

- 2.1 The Business Case for Public Safety LTE
- 2.2 Commercial Availability of Public Safety LTE Devices
- 2.3 Public Safety LTE Deployments throughout the Globe
- 2.4 Public Safety LTE Market Size and Revenue Opportunities
  - 2.4.1 Regional Segmentation and Market Share
  - 2.4.2 Market Segmentation: Commercial vs Private Networks
  - 2.4.3 Infrastructure Vendor Market Share & Revenue
  - 2.4.4 Device Vendor Market Share & Revenue

#### **3 PUBLIC SAFETY LTE TECHNOLOGY**

- 3.1 Overview of LTE Technology
- 3.2 LTE RAN Technology (E-UTRAN)
- 3.3 EPC Technology
- 3.4 Public Safety Specific Entities for LTE Networks
- 3.5 QoS for Public Safety LTE Systems: Global Requirements and Solutions
- 3.6 Interoperability between Commercial and Private LTE Networks
- 3.7 Interoperability with APCO 25 and TETRA Systems
- 3.8 LTE Advanced Support for Heterogeneous Commercial and LMR Networks
- 3.9 Tactical Deployment Solutions for Public Safety LTE
- 3.10 System in a Box
- 3.11 Small Cells and Relays
- 3.12 Aerial Cells
- 3.13 Integration with Military Communication Systems
- 3.14 Public Space Deployments



#### 4 PUBLIC SAFETY LTE SOLUTIONS, DEVICES AND APPLICATIONS

- 4.1 Public Safety LTE Devices & Vendor Roadmaps
- 4.2 Public Safety LTE Infrastructure Solutions & Vendor Roadmaps
- 4.3 Public Safety LTE Network & IoT
- 4.4 Public Safety LTE Network Deployment & Operations Tools
- 4.5 Public Safety LTE Applications

# 5 SPECTRUM REGULATION AND FUNDING IMPLICATIONS FOR PUBLIC SAFETY LTE

- 5.1 Global Spectrum Allocation for LTE Deployments
- 5.2 Regional Segmentation for Public Safety LTE Deployments
  - 5.2.1 North America
  - 5.2.2 Western Europe
  - 5.2.3 Eastern Europe
  - 5.2.4 Middle East & Africa
  - 5.2.5 Asia Pacific
  - 5.2.6 Latin & Central America

#### 6 PUBLIC SAFETY LTE SUBSCRIPTIONS AND MARKET SIZE 2014 - 2019

- 6.1 Global Public Safety LTE Revenue and Market Share Forecasts
  - 6.1.1 Global LTE Industry Revenues
  - 6.1.2 Market Share by Industry Segment
  - 6.1.3 Market Share by Region
  - 6.1.4 Market Share by Vendor / Integrator / Service Provider
  - 6.1.5 Global LTE Subscriptions
- 6.2 Regional Public Safety LTE Subscription Forecasts
  - 6.2.1 North America
  - 6.2.2 Western Europe
  - 6.2.3 Eastern Europe
  - 6.2.4 Middle East & Africa
  - 6.2.5 Asia Pacific
  - 6.2.6 Latin & Central America

# 7 PUBLIC SAFETY BROADBAND SUBSCRIPTIONS AND MARKET SIZE 2014 - 2019



- 7.1 Global Public Safety Mobile Broadband Subscriptions by Technology
- 7.2 Global Public Safety Mobile Broadband Revenue by Technology



## **List Of Tables**

#### LIST OF TABLES

- Table 1: Public Safety LTE Infrastructure Vendor Ranking Matrix 2014 2019
- Table 2: Public Safety LTE Device Vendor Ranking Matrix 2014 2019
- Table 3: Public Safety LTE Vendor / System Integrator Ranking Matrix 2014 2019



# **List Of Figures**

#### **LIST OF FIGURES**

Figure 1: Public Safety LTE Market Size 2011 - 2020 (USD Millions)

Figure 2: Public Safety LTE Market Size by Region 2015 - 2020 (USD Millions)

Figure 3: Public Safety LTE Infrastructure Shipment Revenue 2011 - 2020

Figure 4: Public Safety LTE Device Shipment Revenues 2014 - 2019

Figure 5: LTE RAN Architecture

Figure 6: LTE EPC Architecture

Figure 7: Public Safety LTE Devices

Figure 8: Harris InTouch RPC-200

Figure 9: Public Safety LTE Device Vendor Roadmap

Figure 10: Public Safety LTE Infrastructure Vendor Roadmap

Figure 11: Public Safety LTE Industry Revenues 2015 - 2020 (USD Millions)

Figure 12: Public Safety LTE Operator Service Revenues 2015 - 2020 (USD Millions)

Figure 13: Public Safety LTE Revenue by Service/Vendor Segment 2015 - 2020

Excluding Operator Service Revenue (USD Millions)

Figure 14: Public Safety LTE Regional Market Share 2012

Figure 15: Public Safety LTE Regional Market Share 2013

Figure 16: Public Safety LTE Regional Market Share 2014

Figure 17: Public Safety LTE Regional Market Share 2015

Figure 18: Public Safety LTE Regional Market Share 2016

Figure 19: Public Safety LTE Regional Market Share 2017

Figure 20: Public Safety LTE Regional Market Share 2018

Figure 21: Public Safety LTE Regional Market Share 2019

Figure 22: Public Safety LTE Regional Market Share 2020

Figure 23: Public Safety LTE Vendor / System Integrator Market Dominance Projection

2014 - 2019

Figure 24: Commercial & Private Public Safety LTE Subscriptions 2011 - 2019

Figure 25: Traditional (Conventional & Trunked) LMR Subscriptions 2011 - 2020

Figure 26: Commercial & Private Public Safety LTE Subscriptions by Region 2014 -

2019

Figure 27: North America Commercial & Private Public Safety LTE Subscriptions 2014 -

2019

Figure 28: Western Europe Commercial & Private Public Safety LTE Subscriptions 2014

- 2019

Figure 29: Eastern Europe Commercial & Private Public Safety LTE Subscriptions 2014

- 2019



Figure 30: Middle East & Africa Commercial & Private Public Safety LTE Subscriptions 2014 - 2019

Figure 31: Asia Pacific Commercial & Private Public Safety LTE Subscriptions 2014 - 2019

Figure 32: Latin & Central America Commercial & Private Public Safety LTE Subscriptions 2014 - 2019

Figure 33: Public Safety Subscriptions by Technology (CDMA2000, WCDMA, LTE, WiMAX, Other) 2011 - 2020 (Millions)

Figure 34: Public Safety Service Revenue by Technology (CDMA2000, WCDMA, LTE, WiMAX, Other) 2011 - 2020 (USD Billions)



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