

LTE for Critical Communications: 2016 – 2030 – Opportunities, Challenges, Strategies & Forecasts

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Abstracts

For years, the critical communications industry has relied on narrowband LMR (Land Mobile Radio) networks for mission-critical voice and basic data services. Due to the bandwidth limitations of these LMR networks, public safety agencies and other users within the critical communications industry are keen to leverage commercial cellular network technologies to support growing demands for mobile broadband services such as video transmission and bandwidth-intensive field applications.

Considering its thriving ecosystem, spectrum flexibility and performance metrics, LTE has emerged as the leading candidate for critical communications broadband networks. In addition, with the recent approval of the MCPTT (Mission Critical Push to Talk) voice standard as part of 3GPP Release 13, LTE has also become an attractive substitute for providing LMR-like voice services.

As a result, a growing number of critical communications organizations are deploying either private LTE networks or contracting commercial LTE mobile operator services via MVNO arrangements to complement their existing LMR systems with broadband capabilities.

Driven by early investments in the Middle East and Asia Pacific regions, the market for critical communications LTE networks is already worth \$600 Million in annual infrastructure spending. Fueled by large-scale rollouts in the public safety, energy and other sectors, the market is further expected to surpass \$2 Billion by the end of 2020. This includes spending on base stations (eNBs), mobile core and transport networking gear.

Spanning over 1,200 pages, the "LTE for Critical Communications: 2016 – 2030 –



Opportunities, Challenges, Strategies & Forecasts" report package encompasses three comprehensive reports covering both commercial and dedicated LTE networks for critical communications.

The LTE, LTE-Advanced & 5G Ecosystem: 2016 – 2030 – Infrastructure, Devices, Operator Services, Verticals, Strategies & Forecasts

The Private LTE Network Ecosystem: 2016 – 2030 – Opportunities, Challenges, Strategies, Industry Verticals & Forecasts

The Public Safety LTE & Mobile Broadband Market: 2016 – 2030 – Opportunities, Challenges, Strategies & Forecasts

This report package provides an in-depth assessment of LTE for critical communications and also explores the wider market for commercial LTE services. Besides analyzing technologies, architectural components, operational models, key trends, market drivers, challenges, vertical market opportunities, applications, deployment case studies, spectrum allocation, standardization, regulatory landscape, future roadmap, value chain, ecosystem player profiles and strategies, the report package also provides infrastructure investment forecasts from 2016 till 2030.

The report package comes with an associated Excel datasheet suite covering quantitative data from all numeric forecasts presented in the report package.



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LIST OF COMPANIES MENTIONED

3GPP (3rd Generation Partnership Project) 5G-PPP Aaeon Abu Dhabi Police Accelerated Concepts Accelleran AceAxis ACMA (Australian Communications and Media Authority) Aculab Adax ADCOM911 (Adams County Communications Center) Addis Ababa Light Rail ADRF (Advanced RF Technologies) Advantech Advantech Wireless Aeroflex Affarii Technologies Affirmed Networks Agile Networks



Airbus Defence and Space Airbus Group Air-Lynx **Airspan Networks** Airvana Airwave Solutions Ajman Police Alcatel-Lucent Alstom Altiostar Networks Ambulance Victoria Amdocs Anite Anritsu Corporation Ansaldo STS APCO International (Association of Public-Safety Communications Officials) Apple ARASKOM Arcadyan Technology Corporation Argela Aricent ARItel Argiva Artemis Networks Aselsan ASOCS ASTRI (Hong Kong Applied Science and Technology Research Institute) **ASTRID ASTRO Solutions** ASUS (ASUSTeK Computer) AT&T **AT&T** Mobility Athena Wireless Communications Athonet ATIS (Alliance for Telecommunications Industry Solutions) Atlas Telecom Avanti Communications Group Avaya AVI



Aviat Networks Avtec Axell Wireless **Axis Communications Axis Teknologies** Axxcelera Broadband Wireless **BAE Systems** BaiCells BandRich **Barrett Communications** BASE (Belgium) **Baylin Technologies** BayRICS (Bay Area Regional Interoperable Communications Systems Authority) BayWEB (Bay Area Wireless Enhanced Broadband System) **BBK Electronics Corporation Beach Energy Belkin International BFDX** Bilbao Metro **Bird Technologies Bittium Corporation Black Box Corporation** BlackBerry Blackhawk Imaging Blackned Bluebird **Boise Police Department Bombardier Transportation Bosch Security Systems Brazilian Army** Bridgewater Broadcom **Brocade Communications Systems BT** Group **BTI Wireless Busan Transportation Corporation** C4i CalAmp Corporation Calgary Police Service



Camden County Public Safety

Canadian Advanced Technology Alliance

Casa Systems

Casio Computer Company

Catalyst Communications

- Caterpillar
- Cavium
- CCI (Communication Components Inc.)

CCI (Competitive Companies, Inc.)

CCI (Crown Castle International)

- CCSA (China Communications Standards Association)
- CCTI (Catalyst Communications Technologies, Inc.)

Cellvine

Ceragon

Challenge Networks

- China Mobile
- China Southern Power Grid
- **Ciena Corporation**
- Cisco Systems
- CITIG (Canadian Interoperability Technology Interest Group)
- City of Charlotte
- City of Fort Worth
- City of Irving
- City of New Orleans
- City of Oakland
- City of Pembroke Pine

Cobham

- Cobham Wireless
- Codan Radio Communications
- Colorado Parks and Wildlife
- Comba Telecom Systems Holdings

CommAgility

- CommandWear Systems
- CommScope
- **Comtech Telecommunications Corporation**
- **CONET** Technologies
- Connectem
- Contela
- Coolpad



Core Network Dynamics Coriant Corning County of Los Angeles Covia Labs CPqD (Center for Research and Development in Telecommunications, Brazil) Cradlepoint **Crown Castle** CSI (Cellular Specialties, Inc.) Cybertel Bridge **Cygnus Satellite** Dali Wireless **DAMM Cellular Systems DAP** Technologies **DAPage Notifications DataNet Software Datang Group Datang Mobile** Dell DeltaNode **Dish Network D-Link Corporation** DNK (Norwegian Directorate for Emergency Communication) Dongwon T&I Dovado **DragonWave** DSC (Digital Special Communication) DT (Deutsche Telekom) **Dubai Police** Durabook (Twinhead International Corporation) **Dutch Police** EA Networks (Electricity Ashburton) EADS Eastcom **EchoStar Corporation** Eden Rock Communications EE EENA (European Emergency Number Association) **EF** Johnson



Elbit Systems Elta Systems **EMC** Corporation Ericsson Ericsson LG Esharah Etisalat Security Solutions **ETELM** Etherstack Ethertronics Etisalat ETRI (Electronics and Telecommunications Research Institute, South Korea) ETSI (European Telecommunications Standards Institute) EUAR (European Union Agency for Railways) Eventide EXACOM **Exalt Communications Exelis** EXFO Expway **ExteNet Systems** Facebook Falu Municipality Federated Wireless FirstNet (First Responder Network Authority) Foxcom Fraunhofer Fokus French Army French MOI (Ministry of Interior) Frequentis Fujitsu **Galtronics** Corporation Gemtek Technology Company GENBAND **General Dynamics Corporation General Dynamics Mission Systems Genesis Group** German Armed Forces (Bundeswehr) Getac Technology Corporation Gionee



Goodman Networks Goodmill Systems Google Governor's OIT (Office of Information Technology), State of Colorado Grant County Sheriff's Office GrenTech (China GrenTech Corporation) GWT (Global Wireless Technologies) Harris Corporation Harris County HFRS (Hampshire Fire & Rescue Service) Hitachi Home Office, UK Honeywell Hong Kong Police Force HPE (Hewlett Packard Enterprise) HQT Radio **HTC** Corporation Huawei **Hughes Communications** Hughes Network Systems Hytera Communications Company IAI (Israel Aerospace Industries) **iBwave Solutions** iCOM IDF (Israel Defense Forces) IETF (Internet Engineering Task Force) Imtradex **INET** (Infrastructure Networks) InfoVista Inmarsat **InnerWireless** Intel Corporation Intel Security **InterDigital** Intersec Intrepid Networks ip.access **IPWireless** ITELAZPI





JDI (JING DENG INDUSTRIAL)

ITU (International Telecommunication Union)

ITU-R (ITU Radiocommunication Sector)

JMA Wireless Jordanian Armed Forces JRC (Japan Radio Company) Juni Global **Juniper Networks** JVCKENWOOD Corporation Kapsch CarrierCom Kathrein-Werke KG KBR **KDDI** Corporation Kelrad Software Kenyan Police Service **Keysight Technologies Kirisun Communications Kisan Telecom KMW Kodiak Networks** Koning & Hartman Korail (Korea Railroad) Korea Rail Network Authority **KPN KT** Corporation Kudelski Group Kumu Networks Kyocera Corporation L-3 Communication Systems-West L-3 Communications Holdings Laos Police LA-RICS (Los Angeles Regional Interoperable Communications System) Las Vegas Metropolitan Police Department Lemko Corporation Lenovo Leonardo-Finmeccanica LG CNS LG Electronics

LG Group



LG Uplus LGS Innovations Ligado Networks Lijiang Police Linksys LiveViewGPS Lockheed Martin Corporation Logic Instrument LTE-U Forum Luminate Wireless M1 Marlink Mavenir Systems McWane MediaTek MegaFon Meizu Mentura Group **MER-CellO Wireless Solutions MetroPCS** Miami Dade Police Department Miami-Dade County Microlab **Microsoft Corporation** Milestone Systems MIMOon Ministry of Industry and Information Technology, China Mitel Networks Corporation Mitsubishi Electric Corporation MobileDemand Mobilicom Mobistar MODUCOM (MODULAR COMMUNICATION SYSTEMS) MOF (Ministry of Oceans and Fisheries, South Korea) MOLIT (Ministry of Land, Infrastructure and Transport, South Korea) **Moscow Police Moseley Associates** Motorola Mobility Motorola Solutions



MPS (Ministry of Public Security, China) MPSS (Ministry of Public Safety and Security, South Korea) MSB (Swedish Civil Contingencies Agency) MTI Mobile MulteFire Alliance Mutualink Nanjing Municipal Government National Rail, UK NATO (North Atlantic Treaty Organization) NCRIC (Northern California Regional Information Center) **NEC** Corporation **NEC Mobile Communications** Nedaa Nemergent Neptune Mobile Net4Mobility Netas Netgear **NetMotion Wireless** Nevada Department of Transportation New Jersey ROIC (Regional Operations Intelligence Center) New Jersey State Police New Jersey Transit New Mexico DoIT (Department of Information Technology) New Postcom Equipment Company New Zealand Police **NewCore Wireless** Nexius NextG Networks **NextNav** NI (National Instruments) Corporation Nokia Corporation Nokia Networks Northrop Grumman Corporation **Novatel Wireless** nTerop Corporation NTT DoCoMo **NuRAN Wireless** Nutaq



O3b Networks **Oceus Networks** Octasic OMA (Open Mobile Alliance) **Oman Royal Office** Ontario Ministry of Transportation **ONTHEGODEVICES** OpenSignal **OPPO** Optiway Orange **Panasonic Corporation** Panda Electronics (Nanjing Panda Electronics Company) Panorama Antennas Pantech **Parallel Wireless** Pennsylvania State Police Pepro PetroChina Philadelphia Police Department Phluido Phonak Piciorgros (Funk-Electronic Piciorgros) **Pikewerks Corporation** PMN (Private Mobile Networks) **Polaris Networks** Police Federation of Australia Port of Tianjin Portalify Potevio (China Potevio Company) PowerTrunk Productivity Commission, Australia Proximus Pryme Radio Products **Public Wireless PureWave Networks Puxing Radio** Pyramid Communications **Qatar Armed Forces**



Qatar MOI (Ministry of Interior) **Qigihar Municipal Public Security Bureau Qigihar Police** Qualcomm **Quanta Computer** Qucell **Queensland Police Service** Quortus RACOM Radio IP **Radisys** Corporation RADWIN **RAVEN Electronics Corporation Raytheon Company** RCMP (Royal Canadian Mounted Police) **Reality Mobile Redline Communications RELM Wireless RF Window** RFS (Radio Frequency Systems) Rio de Janeiro Fire Department **Rio Tinto Group Rivada Networks** Rohde & Schwarz Rohill **Roper Industries** Rosenberger **Royal Dutch Shell Ruckus Wireless** Safaricom SAIC (Science Applications International Corporation) Samji Electronics Company Samsung Electronics Samsung Group SANG (Saudi Arabian National Guard) Sao Paulo Military Police Sapura Secured Technologies Saudi MOI (Ministry of Interior) Savox Communications

LTE for Critical Communications: 2016 – 2030 – Opportunities, Challenges, Strategies & Forecasts



Selex Sepura SerComm Corporation SES SETAR Sevis Systems SFR Shanghai Police Department Sharp Corporation Shuohuang Railway Siemens **Siemens Convergence Creators** Sierra Wireless Signalion Siklu Simoco Singtel Sirran SK Telecom **SK** Telesys **SLA** Corporation SLC (Secure Land Communications) Smith Micro Software SoftBank Group SOLiD (SOLiD Technologies) Sonic Communications Sonim Technologies Sony Corporation Sony Mobile Communications Southern Company SouthernLINC Wireless Space Data Spectra Group SpiderCloud Wireless **Spirent Communications** Spreadtrum Sprint Corporation **Star Solutions** State of Louisiana

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Thales

- TI (Texas Instruments)
- TIA (Telecommunications Industry Association)
- **TITAN Communication Systems**
- T-Mobile USA
- **Toshiba Corporation**
- Tropico
- TrustComm
- TTA (Telecommunications Technology Association, South Korea)
- Turk Telekom
- Turkish National Police Force
- Twisted Pair Solutions
- TxDPS (Texas Department of Public Safety)
- U.S. Army
- U.S. CBP (Customs and Border Protection)
- U.S. Cellular
- U.S. Coast Guard
- U.S. Department of Commerce
- U.S. Department of Defense
- U.S. Department of Homeland Security
- U.S. Department of State
- U.S. FCC (Federal Communications Commission)
- U.S. FEMA (Federal Emergency Management Agency)
- U.S. Navy
- U.S. NIST (National Institute of Standards and Technology)
- U.S. NPSTC (National Public Safety Telecommunications Council)
- U.S. NTIA (National Telecommunications and Information Administration)
- UAE MOI (Ministry of Interior)
- UANGEL
- Ubidyne
- UIC (International Union of Railways)
- UNIMO Technology
- University of Ottawa
- Uppsala Ambulance Services
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URSYS

- **US** Digital Designs
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