



**ANYWHERE.  
ANYTIME.  
PORTABLE,  
SECURE  
PUBLIC  
SAFETY LTE  
FOR EVERY  
MINUTE OF  
EVERY DAY.**



**MOTOROLA  
SOLUTIONS**



## **PUBLIC SAFETY LTE PORTABLE INFRASTRUCTURE FROM MOTOROLA SOLUTIONS**

Our world becomes more complex with every passing moment. Community expectations are rising and personnel safety is an ever present concern. Real-time information can make all the difference in achieving successful outcomes. The new model of delivering access to the high speed, real-time information you need, no matter the location or the situation, is achieved with PS LTE Portable Infrastructure anywhere, anytime coverage and capacity from Motorola Solutions.

Get the other tools you need to get the job done quickly and safely with our extensive portfolio of Applications, Devices, Networks and Services designed for mission critical operations.



# THE CHALLENGE

**HOW DO YOU ACCESS HIGH  
SPEED, REAL-TIME DATA  
WHEREVER YOU ARE?**

Continuous access to the right information can mean the difference between a successful outcome or a disaster. It's critically important for you to know the very latest intel, but today with data sources growing second by second and accelerating in the future with the Internet of Things (IoT), the information you saw only moments earlier could be dangerously outdated. The challenge is having the anywhere, anytime access to the real-time information you need to quickly make the best decisions.

With its ability to quickly send and receive tremendous amounts of video, voice and data, Public Safety LTE (PS LTE) is ideally suited to be the high speed pipeline for the flow of information to and from the mobile workforce, between agencies, and to connect information sharing literally around the world. The fastest network, however, is of no use if you can't access



information when you need it. That's why coverage is such an important aspect of wireless networks. Unfortunately, coverage is sometimes overlooked or misunderstood. For instance, saying there is coverage in an area isn't the same thing as saying there is coverage everywhere you need it. As consumers, we encounter this everyday. There are areas where our smartphones and other devices work and areas where they don't work very well, or just don't work at all...sometimes just a few feet away. For public safety and other critical services, this level of "coverage" simply isn't acceptable.

The simple fact of the matter is that today, wherever you are, that's where you need PS LTE to deliver real-time information. It's clear then that today and increasingly into the future, it isn't enough to just talk about city, regional or country coverage. In fact, there are many additional coverage

scenarios to consider including: individual agency footprints, in-building, underground, remote area, coverage gaps, poor coverage, secure bubbles, key facilities, transportation corridors and high crime areas. Another key consideration is how to provide resilient coverage – coverage that has levels of reliability built into it in case of overload, failure, sabotage or disaster.

Fixed LTE sites and towers will only provide some of the coverage you need. The old model for adding on demand LTE coverage relied on deployable infrastructure such as COWs (cell on wheels), SOWs (system on wheels) and COLTs (cell on light trucks) sometimes used on a semipermanent basis, but typically used to provide temporary coverage and then put back into storage until needed again. While this model still has value, it's no longer sufficient on its own to meet the needs of a new world where around the clock, 24x7x365 mission critical operations demand continuous and ubiquitous PS LTE coverage.



## THE SOLUTION

### TAKE THE LTE NETWORK WITH YOU

#### **CONTINUOUSLY DELIVER PS LTE COVERAGE ANYWHERE. ANYTIME.**

To send and receive the real-time information needed to keep your community safe anywhere, anytime, requires new thinking and new approaches. Innovations from Motorola Solutions are advancing the technology to create a new ecosystem of secure PS LTE Portable Infrastructure for every scenario.

#### **ALWAYS ON. ALWAYS CONNECTED.**

This new paradigm shifts the old model from fixed towers, COWs, SOWs and COLTs to add a flexible mix of portable and ultra-portable infrastructure where multiple form factors are continually in use at any point in time. From body worn and aerial, to in-vehicle, easily carried and quickly set up; always on continuous PS LTE coverage ensures access to information no matter the location or the situation. Each form factor can be used singly, or in layers of 2 or more. For example, consider an incident involving a barricaded suspect in a large complex. An onscene PS LTE network might look like this:

- Fire engine powers an immediate area LTE bubble with its in-vehicle LTE
- SWAT team quickly creates their dedicated in building coverage using tactical case LTE
- Later in the incident, a COW adds LTE penetration throughout the complex and additional capacity for responders

These ad-hoc PS LTE networks at the incident can operate in an area with or without coverage from the main system to establish immediate, dedicated and secure PS LTE coverage for the response. Additional information access and sharing is enabled with a backhaul connection to other networks over fiber, microwave and satellite.



### LXN 6000 LTE INFRASTRUCTURE

Designed for portable, semi-permanent or fixed installations, LXN 6000 LTE Infrastructure is the flexible solution you need to establish coverage and capacity where and when you need it. Quickly and easily create ad-hoc, standalone networks, augment existing networks and add new levels of system resiliency. Be ready for special events, man-made or natural disasters and remote area operations and improve business continuity and disaster recovery capabilities.

### LXN 500 LTE ULTRA PORTABLE INFRASTRUCTURE

Our smallest, lightest and fully functional LTE network is built on a platform that combines an eNodeB (eNB) and Evolved Packet Core (EPC) and scales up to 100 subscribers. With activation timeframes possible of less than 5 minutes, you quickly deliver the secure LTE coverage and capacity you need; anywhere, anytime.



**A NEW WORLD OF  
PORTABLE PUBLIC  
SAFETY LTE  
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EVERY DAY**

# A NEW WORLD OF PORTABLE PUBLIC SAFETY LTE INFRASTRUCTURE HAS YOU COVERED EVERY MINUTE OF EVERY DAY

A FLEXIBLE LTE PORTABLE ECOSYSTEM WITH FAST AND EASY SETUP  
ENSURES CONTINUOUS OPERATIONS NO MATTER THE SITUATION

## FOREST FIRE



## SPORTING AND OTHER PLANNED EVENTS



## MULTI-AGENCY RESPONSE



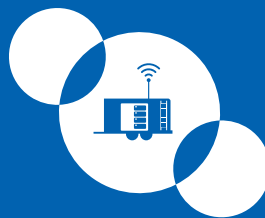
## STRUCTURE FIRE



## DISASTER



## GAP COVERAGE



## TRAILERS

### SYSTEM ON WHEELS (SOW )



Quickly deliver standalone broadband service with an entire PS LTE system on wheels, or easily add coverage and capacity when connected to fixed infrastructure.

### CELL ON WHEELS (COW )



Easily add coverage and capacity with a cell site on wheels connected to PS LTE infrastructure via microwave, satellite, or fiber .

## VEHICULAR



Turn any vehicle large or small into a mobile PS LTE network and project coverage for you and other public safety personnel .

## BODY WORN



Ensure PS LTE is always available, even in the most remote and rugged areas, with lightweight, transportable LTE you can carry in a backpack.

## AERIAL



Provide a PS LTE bubble from the sky with aerial platforms ranging from balloons to helicopters and provide a bird's-eye perspective of an incident scene with real-time video.

## TACTICAL CASE



Bring the network with you in a portable, ruggedized case and create private PS LTE networks where and when you need them .





# USE CASE BENEFITS

## ENSURE CONTINUOUS OPERATIONS NO MATTER WHAT

BETTER DECISIONS, BETTER OUTCOMES AND IMPROVED SAFETY; YOU HAVE THE ADVANTAGE WITH REAL-TIME INFORMATION FROM MOTOROLA SOLUTIONS PS LTE PORTABLE INFRASTRUCTURE. COMPLEMENT EXISTING COVERAGE OR CREATE COVERAGE IN THE FOLLOWING WAYS:

### **ADD CAPACITY**

Too many users and devices in one area can block access to the network. You can quickly concentrate additional capacity where it's needed most and overcome congestion with PS LTE Portable Infrastructure.

### **AUGMENT CITY, REGIONAL OR COUNTRY COVERAGE**

Broad based networks may have been built to generically serve many types of users. PS LTE Portable Infrastructure let's you add the right coverage and capacity you need, based on your unique requirements, operations and future plans.

### **BUSINESS CONTINUITY / DISASTER RECOVERY**

PS LTE Portable Infrastructure gives you the perfect combination of large to small solutions which can be immediately used in areas where fixed infrastructure has failed or been damaged to ensure uninterrupted communications. With a layered design and multiple points of resiliency, users may not ever know there was a problem.

### **CREATE PS LTE COVERAGE**

Create a complete, flexible PS LTE network with the coverage and capacity you require, without the need for towers and fixed infrastructure.

### **DELIVER IN BUILDING COVERAGE**

Temporary or permanent in building coverage can be established in many ways by penetrating the structure from the outside and/or creating a footprint inside to provide the access responders and incident commanders need.

### **EXTEND COVERAGE**

Extend existing coverage to a wider area, to higher floors of structures and below ground to achieve the access to information where and when you need it.

### **EXTREME MOBILITY**

Ranging from always on solutions such as in your vehicle, to quick and easy drop and go tactical cases and trailers, PS LTE Portable Infrastructure is with you every step of the way.



### **HIGH CRIME AREAS**

With the flexibility of portable infrastructure, you can project the PS LTE footprint you need into areas that need it most on a short and long term basis. INDIVIDUAL

### **AGENCY COVERAGE**

Each agency has different and unique needs. PS LTE Portable Infrastructure gives agencies the control to create the coverage and capacity they need based on their individual operational requirements.

### **KEY FACILITIES**

Sensitive, high security and critical facilities including: emergency operations centers, city and county operations, public safety headquarters, firehouses, and hospitals require higher levels of PS LTE capability. Other facilities such as detention centers are difficult to penetrate with coverage and have distinct challenges. PS LTE Portable Infrastructure solves challenging environments and provides the dedicated, pinpoint in and out of building coverage you need.

### **REMOTE AREA**

LTE portable solutions create coverage in remote areas where none exists to meet the challenges of remote operations and facilitate the flow of information and monitoring of deployed assets.

### **ROAMING COVERAGE**

Take the network with you using in-vehicle and body worn PS LTE Portable Infrastructure and create multiple layers of constant roaming coverage for a better, always connected experience.

### **SECURE COMMUNICATIONS**

Establish secure communication bubbles around individuals, teams, vehicles and structures to ensure private communications and the protection of information including for events, SWAT operations, undercover investigations and command posts.

### **SPECIAL EVENTS**

Special events place unbelievable demands on systems when too many devices are trying to access the network at the same time. PS LTE Portable Infrastructure gives you the options you need to deploy a dedicated, secure network free from citizen traffic, so that you can always access the real-time information you need.

### **TRANSPORTATION CORRIDORS**

Light up major highways, thoroughfares and other transportation corridors with PS LTE Portable Infrastructure for a continuous real-time flow of information from cameras and sensors and to create a higher level of dedicated service for public safety activities including, traffic stops, fire response and EMS information exchange with hospitals and doctors.