

# LMR to LTE Interoperability

## Increase Capacity and Enhance Coverage with FirstNet

You get Land Mobile Radio (LMR) to Long Term Evolution (LTE) Interoperability – a totally integrated solution that uses open IP-based standards. This capability offers a simple, reliable and scalable solution to connect and elevate your LMR network with Enhanced Push-to-Talk (EPTT). It's the right answer to expand your communication solutions.

### **Increases capacity by off-loading non-critical communications**

Move non-emergency users from an LMR group to FirstNet – freeing capacity and reducing congestion – without losing group communications.

### **Provides a low-cost alternative**

Minimize the need for expensive new radios by deploying the service on your agency smartphones.

### **Extends Push-to-Talk service beyond the LMR network**

Extend those capabilities nationwide with seamless coverage across the network.

### **Offers broadband data overlay and network redundancy**

Experience increased confidence knowing you can use the solution as an overlay broadband data network and a redundant network in the event of an LMR network outage.

### **Supports integration with mobile applications**

Use a suite of APIs to integrate push-to-talk service directly into your mobile public service apps and consoles.

### **Gets you to operational service faster**

Enhanced Push-to-Talk has been integrated and tested with leading services and gets you to operational service faster.

### **STANDARD AND ADVANCED CALLING FEATURES**

- Group-to-group calling
- Instant personal alert feature (LMR dispatcher to EPTT device)
- Talk-group scanning (Both EPTT and LMR talk groups)

### **OPEN STANDARDS SUPPORT**

- Supports a wide array of open IP-based standards, including APCO Project 25, giving you a variety of options for implementing LTE interoperability between your LMR system and FirstNet
- Radio over Internet Protocol (RoIP)
- Inter RF Subsystem Interface (ISSI)
- Console Subsystem Interface (CSSI)

### **FIRSTNET SOLUTION SET**

- Enhanced Push-to-Talk (including client, device, accessories, service and APIs)
- First Priority™ with preemption capabilities
- Wireless and wireline service for interoperability
- Start-up kit that connects to the interoperability gateway
- Managed network services
- End-to-end solution support

**Example:**  
Customer Premise  
Radio over IP  
(RoIP) Interface.  
Cloud based LMR/  
LTE Interoperability  
also available.

