



AT&T Public Safety Solutions

Land Mobile Radio (LMR) LTE Interoperability

The next generation of Public Safety communications – today – and tomorrow.

Connecting Networks – Public Safety works better when technologies work together

Fast, responsive mobile communications are essential for Public Safety agencies and every community they serve and protect. AT&T offers a simple, highly secure and scalable solution to connect and enhance an LMR network with AT&T Enhanced Push-to-Talk. Public



Safety agencies now have a push-to-talk (PTT) solution for today and tomorrow. AT&T Land Mobile Radio with LTE Interoperability is the only totally integrated and managed carrier solution that provides multiple implementation options, giving agencies reliable, seamless communication between EPTT and LMR users whenever and wherever needed. Now, you can connect and enhance your LMR network with AT&T Enhanced Push-To-Talk (EPTT) for maximum reliability.

Increase capacity – offload non-critical communications

Eliminate costly upgrades, increase capacity, and offload non-essential usage by leveraging AT&T reliable LTE Interoperability for your Public Safety LMR network. Now you can expand mission-critical capacity while maintaining group communications during the times you need it most.



Standard and Advanced Calling Features

- Intergroup Calling (Group to Group)
- Instant Personal Alert feature (LMR dispatcher to AT&T Enhanced Push-to-Talk device)
- Talkgroup Scanning (Both AT&T Enhanced Push-to-Talk and Land Mobile Radio talkgroups)

Open Standards Support

AT&T supports a wide array of open IP-based standards, including P25, which provide Public Safety agencies with a variety of options for implementing LTE Interoperability between an LMR system and the AT&T network.

These options include:

Radio over Internet Protocol (RoIP)

- De facto LMR industry standard
- Application of Voice over IP (VoIP) on a two-way radio network
- Utilizes IP backbone to connect and communicate between radio networks

Inter RF Subsystem Interface (ISSI)

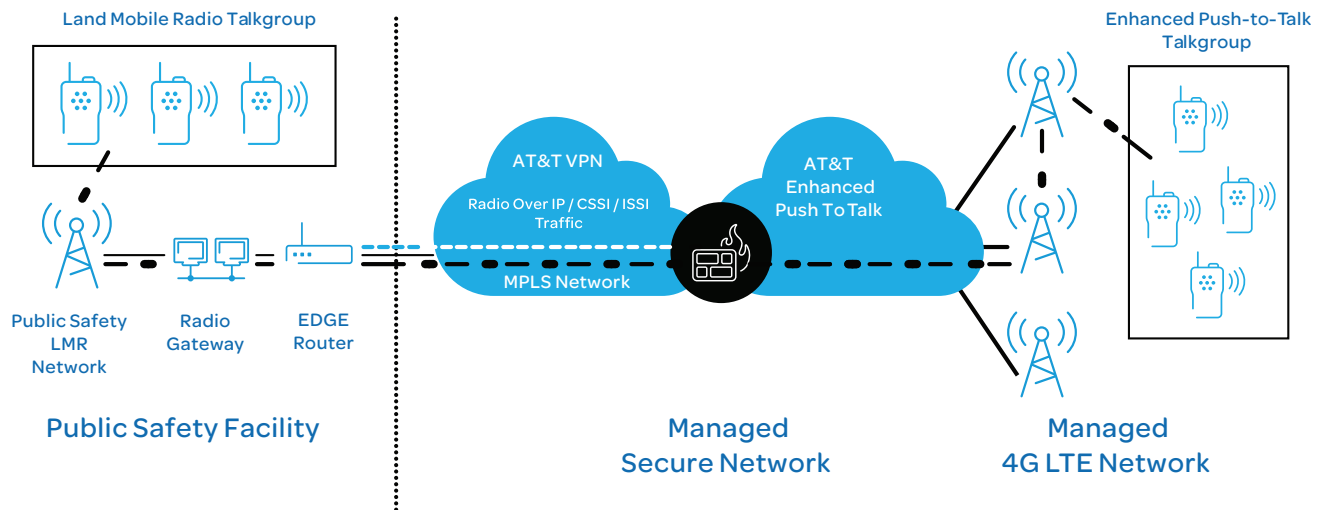
- Part of APCO P25 standards suite
- Non-proprietary interface that allows RF subsystems (RFSS) from different manufacturers to connect together
- Enables AT&T Enhanced Push-to-Talk to appear as a RFSS to other RFSSs

Console Subsystem Interface (CSSI)

- Part of APCO P25 standards suite
- Non-proprietary interface utilizing basic messaging to connect a console subsystem (CSS) to a RFSS
- Enables AT&T Enhanced Push-to-Talk to connect to RFSSs via console patching

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LMR LTE interoperability wireless network topology illustrating the connectivity between the Managed Secure Network, the Managed 4G LTE Network and the Public Safety LMR Network.

Stay connected – extend your LMR coverage

LMR coverage is limited to its network footprint. But, by using open IP-based standards including P25, AT&T LMR LTE Interoperability gives PTT users on AT&T Enhanced Push-to-Talk seamless coverage and connectivity across the AT&T Network – extending your LMR coverage to a nationwide footprint.

“AT&T’s unique offering is simple, scalable and reliable... it’s the next evolution of Land Mobile Radio.”

— Steve Graves, CIO, City of Richardson, Texas

Protect information – encrypted for maximum security

Protecting the security of public safety communications is not an option. With FIPS 140-2 compliance, AT&T LMR LTE Interoperability meets security requirements for Cryptographic Modules issued by the National Institute of Standards and Technology (NIST).

Control costs – preserve your capital investment in LMR

Building a LMR network is typically a substantial investment that isn’t easily replaced. Built on the nation’s largest network*, AT&T Enhanced Push-to-Talk and LMR LTE Interoperability provide a solution designed to benefit your existing Public Safety infrastructure without risking your investment.

Boost savings – expand PTT services with a cost-effective solution

Deploy service on an employee’s existing feature phone, iOS or Android mobile device at a fraction of the price of a two-way radio. Let your agencies choose the precise communication tool for the job. With LMR LTE Interoperability, agencies can now keep directors and leaders connected to first responders with a Land Mobile Radio allowing the agency or department to redeploy radios to mission-critical users.

Be prepared – maintain critical communications in an LMR outage

When it matters most, the AT&T Enhanced Push-to-Talk optimized network features site-level redundancy that delivers highly reliable public safety communications. AT&T Enhanced Push-to-Talk service can be utilized not only as an overlay network to support broadband data applications not supported by LMR but also as a redundant – and highly secure communications network in the event of a LMR network outage.



Supports PTT integration with mobile applications

Utilizing the suite of APIs provided, AT&T Enhanced Push-to-Talk service is easily integrated into mobile public safety applications as well as software consoles.

Priority call treatment for Public Safety

Optional AT&T Dynamic Traffic Management for Public Safety uses quality of service (“QoS”) network technology to enable qualified public safety customers to receive a differentiated (i.e., enhanced versus “best effort”) AT&T-owned domestic 4G LTE network experience. An enhanced, or higher, QoS is particularly valuable during times of network congestion for your mission-critical data traffic.

Built to implement quickly

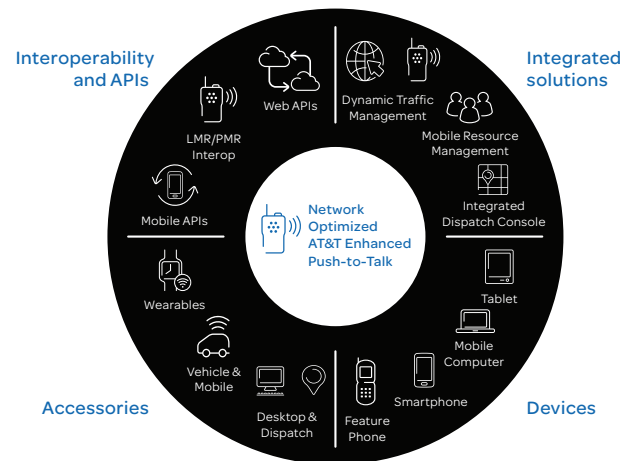
The wait is over. AT&T Enhanced Push-to-Talk LMR LTE Interoperability integration is tested with leading console and gateway vendors to deliver fast implementation. Your public safety agency can be operational with minimal delays.

AT&T LTE Interoperability for Land Mobile Radio (LMR) Solution Set

While other carriers or solution providers piece together their solutions, AT&T offers a totally Integrated and managed solution for LMR LTE interoperability.

The integrated and managed solution set from AT&T includes:

- AT&T Enhanced Push-to-Talk
 - Client
 - Device
 - Service
 - APIs
- AT&T Dynamic Traffic Management
- AT&T VPN for Interoperability (IP backhaul)
- Interoperability Gateway
- Accessory and Hardware Ecosystem
- Start-Up Kits
- End-to-End Managed Network Services
- End-to-End Solution Support



AT&T Dynamic Traffic Management—Public Safety: Available only to qualified state and federal public safety and emergency management organizations with a qualified AT&T Corporate Digital Advantage Agreement or other qualified wireless service agreement for government customers (Business Agreement) and only for their Corporate Responsibility User (CRU) lines of service. Feature must be added to each CRU line separately. Per CRU line requirements include (a) a qualified data plan with a data allowance (no unlimited plans) and (b) a 4G LTE-compatible device provisioned with an eligible business application and your company’s CCS APN. Authorized CRUs using AT&T Dynamic Traffic Management – Public Safety are limited to 10 gigabytes (GB) of use per billing cycle; any data traffic sent by an authorized CRU after the 10 GB allotment will be handled on “best effort” QoS. Additional one time CCS set up and/or change fees may apply. The Service is subject to the applicable terms of the Business Agreement and the terms governing both the service and CCS. Additional restrictions may apply. Coverage and service not available everywhere.

*Based on overall coverage in U.S. licensed/roaming areas. Coverage not available everywhere.

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