

## FUSION<sup>XG</sup>

# A Turnkey, Transportable, Unified PTT Solution

Extend Coverage • Connect Disparate Systems • Add Users Economically

### FUSION<sup>XG</sup> BENEFITS

**Interoperability.** Securely connect your land mobile radio (LMR) system, LMR systems from partner agencies, and mobile smart device users into a common PTT communications platform.

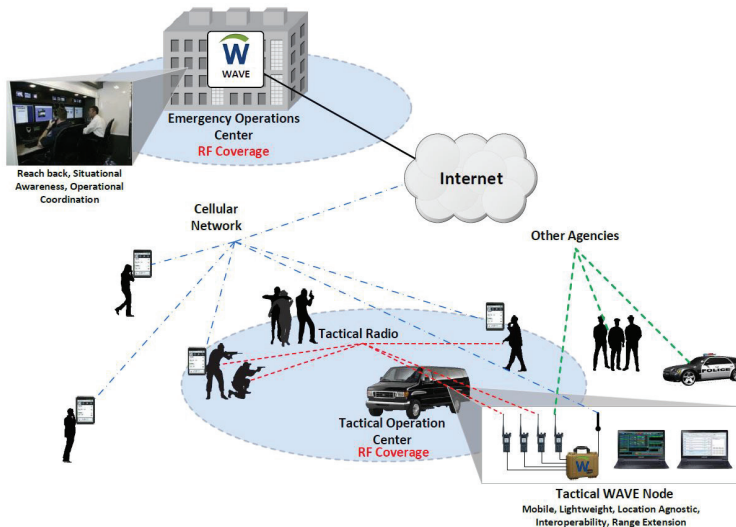
**Any Network/Anywhere.** Extend LMR coverage beyond the range of your repeaters and tower sites. FUSION<sup>XG</sup> allows voice, SMS, and GPS location services to transmit over any 3G, 4G, 4G-LTE, or Wi-Fi system.

**Reduce Costs.** Provide LMR connectivity to users who cannot or will not carry an expensive 2-way radio.

**Increase Flexibility.** At a moment's notice, allow occasional or temporary users access to your LMR network.



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### LMR Limitations

**Inability to Natively Interoperate.** In the real world, local police departments operating on one set of LMR frequencies (e.g., 800 MHz) cannot easily communicate with Federal law enforcement agents using another set of frequencies (e.g., VHF). Add to the mix differing LMR technologies and proprietary trunking protocols, and barriers to instant communication and collaboration at critical moments arise.

**Confined Geographic Coverage.** LMR systems have limited geographic coverage. Once a radio user is out-of-range of the network's towers and repeater sites, he/she is cut-off from contact with incident commanders and colleagues. This could leave him/her exposed to dangerous situations without the ability to receive instructions or call for help.

**Subscriber (Handset) Cost.** High tier multi-band 2-way radios, with encryption and trunking capabilities, can easily cost as much as \$4000 or more. This expenditure cannot always be justified for occasional or temporary users. Yet the need may exist for such users to have LMR access at times. Add the fact that an ad hoc interoperability system may be needed in the field, away from HQ or home base, and the value of a turn-key, transportable, unifying system becomes clear.

Your secure Land Mobile Radio (LMR) system is the cornerstone of your mission-critical communications. However, three of LMR's greatest limitations are:

- ◆ Its inability to natively interoperate with other LMR systems
- ◆ Its confined geographic coverage
- ◆ The cost of subscribers

### The Solution

FUSION<sup>XG</sup> breaks down the technical and geographic barriers created by incompatible LMR systems. In basic terms, it is a transportable, easy-to-operate, fully interoperable communications system that unifies disparate LMR systems and other "smart" devices like smartphones, tablets, and PCs. By deploying FUSION<sup>XG</sup> law enforcement agents, first-responders, and other critical personnel can communicate and collaborate instantly, with both in-house teams and partner agencies, without concern over system compatibility, geographic boundaries, or device accessibility.

### At the Core: Twisted Pair WAVE

Based on Twisted Pair WAVE, FUSION<sup>XG</sup> allows you to securely connect your mobile and desktop "smart" devices (Android, iOS, Windows Mobile/CE, Blackberry, etc.) to multiple 2-Way LMR systems.

WAVE is the *de facto* standard for software-enabled LMR interoperability, with widespread deployments across all branches of government. It has been issued a Certificate of Networkiness (CoN) by DoD and is on NATO's Approved Fielded Products List.



# FUSION<sup>XG</sup> Components and Services

## TYPICAL FUSION<sup>XG</sup> USE CASES

- ◆ Under Cover Law Enforcement Operations
- ◆ Executive Protection Services
- ◆ Airborne Operations
- ◆ Search & Rescue Missions
- ◆ Emergency Management Coordination
- ◆ First Responder Collaboration
- ◆ Inter-Agency Teaming
- ◆ International Aid Coordination
- ◆ Police, Fire & EMS Collaboration

## ADMINISTRATOR REACH

One of the primary drivers for FUSION<sup>XG</sup> adoption is to provide administrators – who often find themselves outside the radio coverage area – the ability to respond to incidents regardless of their location.



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## WHAT WE PROVIDE

Our FUSION<sup>XG</sup> transportable system includes the following components at an affordable price: (1) a fully-configured, high-powered, quad-core laptop with a partitioned drive to serve as the management, media, and proxy servers; (2) all required IPSEC gateways with antennas; (3) all required LMR gateways and radio interface cables (you must specify the radio models you will be connecting to the system); (4) all required MS server licenses and server software; (5) the WAVE Dispatch Communicator and Desktop Communicator software; (6) 20, 40, 60, 100 or more radio/smart device WAVE licenses; (7) durable, transportable cases; and (8) all required engineering and installation technical support.

## WHAT YOU PROVIDE

You simply provide 3G, 4G, or 4G-LTE Internet connectivity; computers to run the dispatch software; and "BYOD" (bring your own devices - smartphones, iPads, PCs, laptops, etc.). We take care of the rest.

## MORE FUSION<sup>XG</sup> CAPABILITIES



**Audio Processing.** All audio processing is managed by the software itself, requiring no additional specialized audio hardware.

**Mapping/Locator Service.** When equipped with the WAVE Mobile Communicator App, a smartphone acts like a secure, multi-channel LMR handset that sends and receives presence and location data, allowing every user with an enabled device to see the location of other users on the channel.

**Group Call/Private Call.** In FUSION<sup>XG</sup> the default mode of communication is GROUP CALL, where everyone on the channel hears and can participate in the conversation. A second mode is PRIVATE CALL, where authorized users can enjoy secure, one-to-one PTT capabilities.

**Active Users.** Through the supplied WAVE mobile communicator application, FUSION<sup>XG</sup> shows who is connected and active on each channel, as well as their current position on the mapping software.

**Dispatch/Control.** FUSION<sup>XG</sup> uses the WAVE Dispatch Communicator as its dispatch solution. Proven in some of the world's most demanding communications environments, where only the most powerful and secure dispatch systems are accepted, the Dispatch Communicator is a solution that any organization can trust. Dispatch Communicator provides advanced VoIP dispatch capabilities at a fraction of the cost of traditional systems and requires only an industry-standard PC to operate. Dispatch Communicator can display and process an unlimited number of secure, encrypted audio channels with mixing, transcoding, and instant reply available at the click of a mouse.

