![L3Harris FAST. FORWARD.]

MISSION-CRITICAL CONVERGENCE IN THE PALM OF YOUR HAND

First responders need the best in mission-critical services to protect the public and achieve successful outcomes. Reliable, uninterrupted communication in any environment is essential for these services. Insufficient connectivity can lead to dangerous situations. L3Harris' advanced Mission-Critical Push-to-Talk (PTT) devices allow access to both LTE and LMR networks, providing the ruggedized solutions first responders need to tackle their toughest assignments.

Responding to the demands from first responders across the country, L3Harris has teamed with U.S. public safety broadband network providers to offer frontline personnel seamless and resilient communications by integrating MCPTT software with the company's proven XL series of radios and equipment. Until now, the vast majority of MCPTT solutions have been provided on smartphone end-user devices – a capability that first responders and other customers in public safety, transportation and utilities do not prefer, according to Rob Butts, L3Harris Market Manager.

"Commercial cellular carriers typically do not offer durable radio-centric products in their portfolios but, in fact, that's exactly what first responders want. In most cases, they want the ability to simply push to talk and release to listen," Butts said, describing requests for hardened devices with replaceable batteries and accessories, including headsets. "This is what they're used to operating but end-users have been hesitant to move to broadband networks because they have never been able to keep operating with rugged, PTT-type radio equipment."

UNDERSTANDING THE REAL NEEDS

"Customers want something purpose-built to run into a fire with or chase someone down a dark alley," added Butts. "The last thing an undercover cop wants is a smartphone screen lighting up at night, turning them into a target."

In June, L3Harris launched its second MCPTT integration allowing end users to access a nationwide public safety cellular network using XL portables and mobile equipment. L3Harris is the first company to provide such a unique solution to first responders and other public safety authorities in the United States and internationally, according to Baker. In June, L3Harris launched its second MCPTT integration allowing end users to access a nationwide public safety cellular network using XL portable and mobile radios. The company's first MCPTT integration was recently deployed with a regional communications provider in the southeastern United States. It supported a statewide public safety agency with thousands of radios deployed to date.

DELIVERING STANDARDS-BASED CAPABILITY

MCPTT provides customers with game-changing connectivity supported by standards defined by the Third Generation Partnership Project (3GPP). These standards enable communications across LTE, 4G and 5G networks today and 6G in the future. Communications are protected by end-to-end AES 256 encryption. Today, L3Harris has integrated MCPTT into multiple radio types. These include

REVOLUTIONIZE EMERGENCY RESPONSE WITH MCPTT

With embedded MCPTT on L3Harris XL devices, organizations and end users can:

> Dramatically increase their coverage footprint in a single day

> Improve in-building coverage

> Use resilient devices with field-replaceable batteries

> Use line-of-sight talk-around capabilities

> Use familiar, public safety-grade devices

> Use priority and preemption during large events – planned or unplanned.

a mix of portable and mobile systems, such as the XL Converge™, Extreme™ and Onboard™ series of purpose-built products. MCPTT radios are supported by servers within the LTE and cellular network, so the devices do not require a Land Mobile Radio (LMR) network. However, access to both offers force-multiplying capabilities from the two networks. The 3GPP standard for MCPTT drives toward "instantaneous communication" so that MCPTT can perform like LMR networks. Network operators are pushing vendors like L3Harris to meet the standard's key performance indicators and the partnership has produced impressive results, said Butts.

"LTE networks can suffer from congestion," said Baker. "For example, without priority and preemption, when an end-user tries to make a call, they might be connected, but the calls may not necessarily get through. MCPTT allows the end-user to preempt lower priority users on the network who are pushing their calls through the network."

The network convergence provided by L3Harris' embedded software also means customers can expand their coverage areas, including building interiors and identify alternative communication pathways for critical connectivity in the event of a crisis or outage – all of which enhances the effectiveness of first responders across the country. The MCX server, a crucial component to providing mission-critical services, allows administrators to create talk groups, dynamically add and remove users and push those changes to end-users in real time. Future enhancements within the MCX solution allow first responders to share valuable information — including pictures, streaming video feeds and situational awareness data such as GPS location, heart rate, body temperature, respiration and more — in real-time across broadband networks.

COST-EFFECTIVE RESILIENCE

With the L3Harris XL Converge, Extreme and Onboard series of products, customers can access premium Project 25 LMR and cellular networks from the same radio, further enhancing resilience in communications and offering a more cost-effective selection for customers. "This means end users can use native, public safety-grade devices they are already familiar with and also means they are able to afford better quality supporting equipment such as accessories and terminals," said Baker.

Additional benefits of the radio include the use of "talk-around" technology, which enables line-of-sight communications when there is no network available.

Looking to the future, L3Harris is working with network providers, solution partners and customers to expand MCPTT solutions. The addition of radio centric devices to the MCX solution will open doors to expand the use of MCPTT in public safety.

ARE YOU READY FOR MCPTT?

Visit us at:
L3Harris.com/contact-us

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JP Baker

L3Harris Product Management Lead

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