SECURE TAK ENVIRONMENT

PROBLEM

With the current trajectory of COVID-19 cases expected to overwhelm existing hospital facilities, state / local / federal agencies are rapidly mobilizing to construct new and / or transform existing civilian facilities to meet the medical demand. The rapid construction and large influx of personnel creates new communications, operations, and security challenges that require solutions that can be rapidly deployed and easily scaled.

SOLUTION

The National Guard, in conjunction with the Army, is deploying a nationwide Team Awareness Kit (TAK) system to provide the overarching command and control framework leaders rely on for situational awareness.

As part of this rapid TAK system deployment, Motorola is deploying a nationwide WAVE capability, providing the National Guard Push-To-Talk interoperability capabilities among handheld radios, cell phones and tactical radios. WAVE provides both seamless communications and interoperability among agencies that may have disparate communications capabilities. Motorola is working with the Army's TAK Product Center to deploy WAVE in the same timeframe as the TAK system (estimated completion 10 April 2020).

This initial rapid deployment of TAK and WAVE capabilities is predicated on users bringing their own devices. This is an expedient way to deploy the system, however it does potentially introduce cybersecurity vulnerabilities. The Guard will be operating over commercial cellular carriers to reach back into the TAK system, and while TAK itself is a secure platform, voice and other application data of a sensitive nature, including Protected Health Information (PHI) and C2 information, could be at risk. Cybersecurity for all National Guard voice and data capabilities can be assured using a secure End User Device (EUD), operating within the TAK system framework with no additional infrastructure. The LEX L11 is an Android Based Mission Critical Secure End User Device (EUD) which uses a powerful security subsystem in a way that is transparent to apps and users, but resilient against even the most sophisticated attacks or inherent Android/Linux defects. The LEX 11 EUD can operate in dual modes with one mode running the security subsystem and the other mode operating like a normal cell phone.

Motorola Solutions has received NIAP certification on the LEX 11 EUD and as an NSA Trusted Integrator, Motorola Solutions furthermore is listed on the NSA's CSfC Approved Product List. Additionally, we are working with DISA to create a STIG to ensure the LEX 11 remains as secure in the future as it is now.

While the LEX L11 is compatible with CSfC approved Android Mobile Device Manager (MDM), none are required to sign or manage the devices. The devices may be managed remotely over email, MMS, in the device's Web browser, and a myriad of other ways, or locally via microSD cards or USB. No special software is required. Therefore, properly authorized and trained Guard device managers can reconfigure devices without significant intervention from the OEM.

Motorola Solutions proudly manufactures and deploys the sophisticated, cutting-edge communications, software, video security and analytics technologies that keep communities and nations safe. We have been on the frontlines with federal, state and local governments, including in times of crisis, for over 90 years. Today, our 17,000 innovators, engineers and manufacturing specialists are eager to help address critical gaps in the availability of medical and health management technology needed to fight the COVID-19 pandemic. We are pleased to offer hundreds of thousands of feet of secure, U.S.-based manufacturing, unrivaled operational agility and the capacity for rapid deployment.

MOTOROLA SOLUTIONS STANDS READY TO SERVE OUR COUNTRY IN THIS **MOMENT THAT MATTERS.**

FIELDING TIMELINE

This solution is ready now, and can be deployed to a given facility in a matter of 1-2 weeks. The underlying LEX L11 device is currently available at Technology Readiness Level-9, secure software has been tested and fielded, and multiple such systems are currently in use by the U.S. Government, and Authority to Operate (ATO) on the Army network has already been granted.

MOTOROLA SOLUTIONS

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