

DISASTER RECOVERY

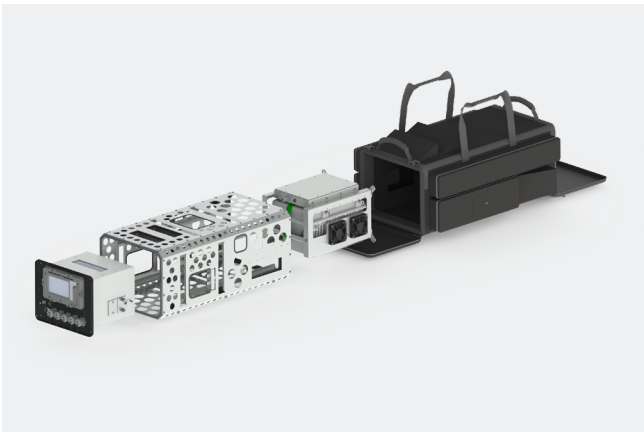


The frequency in natural disasters continues to increase globally with 409 incidents recorded in 2019 alone. Whenever a natural disaster strikes, existing communications infrastructure can be severely impacted at a time when first responders need it most.

GuardStack Software Suite has been designed to enable a portable Broadband access network providing decentralized services when existing infrastructure is unavailable. Capable of being rapidly deployed within minutes; GuardStack is easy to operate for non-communications professionals; scalable; and mobile.

ENHANCED SITUATIONAL AWARENESS

Traditionally, critical communications can be restricted to proprietary products and solutions, representing not only a challenge for innovation and economy of scale, but also for the operational interoperability between multiple wired and wireless access technologies. The GuardStack Platform comprises a secure, government open- and vendor-agnostic integration platform for multiple technologies including UAVs; body cameras; and CCTV surveillance. This allows end users to benefit from instant and remote access to databases; real-time data analysis; geo-location services; monitoring of bio-vital signs; and other applications, all of which have been designed to assist first responders in performing their mission more efficiently and safely. Integrating these capabilities together, the GuardStack software suite provides dynamically self-adjusting connectivity and a virtual environment for additional real-time applications.



KEY FEATURES



up to **400**
Active Users



Deployed within
minutes by
First Responders



4G EPC
/ 5G NC



GPS for First
Responder
Tracking



Secure Mesh-
Flow/SDN for
Self-forming
MANET



Secured
Service Domain
Separation



Integrated
VoIP PBX



Decentralized
Push-to-Talk
(PTT) and
Video



Legacy Tacti-
cal Radio
Integration



Open Transport
& Radio Archi-
tecture

HUMANITARIAN AID
DISASTER RELIEF



RAPIDLY DEPLOYABLE
COMMUNICATIONS

The GuardStack Application provides base services (Voice, Messaging, Push-to-Talk) and Broadband services (Video, Data, Geo Mapping) to first responders on the ground even without network or satellite connectivity. The rapidly deployed broadband service can host multiple applications based on the type of operation being undertaken at any particular time. Unmanned Aerial Vehicles (UAVs) can be connected and controlled via Broadband with video cameras providing real-time situational awareness to enable faster and more accurate decision making.

On the ground, first responders are equipped with the GuardStack Backpack Integration Kit (BIK)- a battery-operated solution comprising an end-to-end solution for first responders. While the GuardStack Platform is hardware independent, the BIK is specifically designed to create independent IT and communication infrastructures in austere environments. The BIK combines a series of network elements (3G-5G, WIFI etc) to the GuardStack Backbone architecture, providing ease of use operation and maintenance interface. Subscribers and groups are managed locally with SIM cards provisioned on site. The ruggedized computing platform is supported by an intuitive touchscreen display.

ABOUT GUARDSTACK

GuardStack Software Suite has been specifically designed to address the most stringent communications and information-sharing requirements facing armed forces at the tactical edge.

Providing a foundation of trusted middleware to enable mission critical communications, GuardStack Tactical Core ensures security, interoperability and network mobility using government open source code to meet national security standards.

GET IN CONTACT



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