



MOBILE DYNAMIC DEFENSE

ENABLING THE MISSION. NOT LOCKING IT DOWN.

Challenge

The utility of mobile devices on the battlespace is undeniable, but how to protect the sensitive information stored and accessed on those devices has been the challenge. Previous attempts to solve this solely limited access to capabilities, locked the device down, slowed access to information, or left open critical safety gaps.

But what if there is no network connectivity, and there's need to update map files? What if there is a Cyber attack and device is compromised, how do you know the EUD is still trustworthy? What if the mission changes and there is a critical need to turn on the camera? None of these previous solutions enable the flexibility to maintain mission effectiveness.

Solution

Enter Mobile Dynamic Defense (MDD), a solution like no other, designed specifically for the very unique demands of tactical, tactical enterprise and government operations. Viasat worked directly with customers to understand current and future CONOPs and coupled that with our cybersecurity expertise to create a comprehensive and holistic approach to the design and architecture.

We started in the harshest environment - the disconnected Tactical Operator.

By focusing on this use case, we discovered these users needed a security solution that would:

1. Work with limited or no network connectivity
2. Have the flexibility to adjust to mission needs on the fly
3. Improve the operators situational awareness, safety and decision making
4. Integrate with the ecosystem of other technologies at the tactical edge

Mobile Dynamic Defense (MDD) was designed first and foremost to enable the flexibility of different mission CONOPs and End User capabilities without limiting functionality of these devices.

A Game Changing Integrated Solutions Ecosystem

- Field-proven complete solution: User App on EUD + Enterprise Portal + Local Provisioner
- EUD Security Policy Mgmt, Enforcement, and Response
- Tactical Radio, WiFi, Cellular connectivity mgmt
- Cyber Protection of DaCAS Weapon System and Soldier Situational Awareness/ Management System
- Automatic resilient routing of traffic between Tactical Radio, WiFi and Cellular*
- COP integration of Cyber and EW SA (TAK) *
- Various methods for mission configuration: Enterprise Portal, Local Provisioner, QR Quick Scan, Tiered Admin and Operator Local access on EUD
- Authorized Samsung Reseller with EUD preloaded with MDD
- Training and Integration services
 - MDD and Secure EUD ecosystem training
 - EUD Security Policy development and assistance
 - Implementation guidance and assistance for Samsung EUD Licensing system to facilitate CONOPs

Viasat's 30+ years of experience in building tactical radio, SATCOM, crypto and cybersecurity products enables us to create a solution that is designed for the tactical and tactical enterprise user and to provide critical support and training before and after it is fielded.

* In prototype



Benefits

Viasat's MDD is proven battlefield ready and has multiple key advantages and operational capabilities:



› Ease and Flexibility of EUD Configuration/Security

- › Turn-key delivery of Mission Enabled EUD
- › Support Custom ROM, S9TE, and COTS EUD Tactical Deployments
- › EUD Ecosystem Integration w/ Samsung KNOX

› Application Control/Management

- › Mission Application Management (Mandatory, Whitelist, Blacklist)
- › Detect and prevent rogue application installation

› Secure Functionality/Policy Management

- › Control device connections (Cellular, WiFi, Bluetooth, NFC, USB)
- › Device Network Firewall administration
- › Tiered access control (Administrator, Operator, User)
- › Flexible policy reconfiguration from authorized admin

› Sensor Fusion/Visualization/Response System

- › Sensor Collection, Analysis, and Response Actions across EUD and Tactical Radio Communications Ntwk
- › Visualization of sensor status with Tactical Edge COP
- › Mission Driven autonomous response actions

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