BLUEFORCE SENSOR FUSION AND EDGE AI FOR
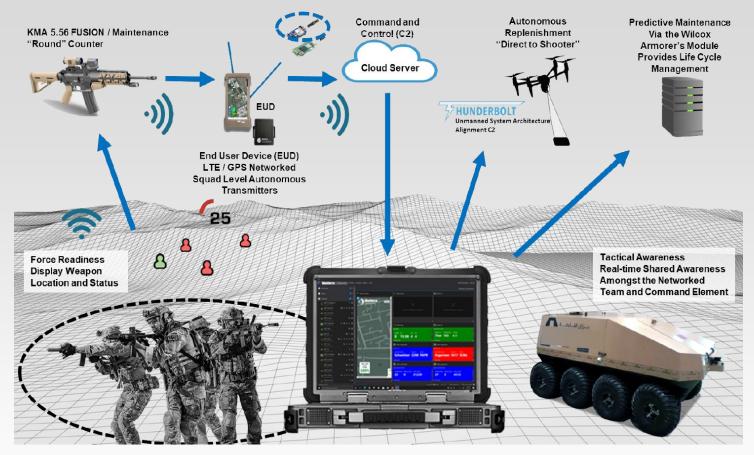# MANNED AND UNMANNED TEAMING

Blueforce Development Corporation, located in Massachusetts USA, is a certified small business and non-traditional US Department of Defense partner, providing flexible edge-based software for secure, real-time awareness and mission command. Our patented edge-based IoT fusion software platform enables sensor fusion, sensor cueing/tipping, orchestration, and layered artificial intelligence (AI) for accelerated decision support and a reduction in human cognitive lift. The Blueforce software ecosystem was built upon the US Army's services oriented (SOA) framework providing extensible and scalable approach for multi-echelon and cross-domain deployments. When coupled with dynamic discovery capabilities, cybersecurity, and sensor management, Blueforce provides a cost effective and sustainable system which adjusts and adapts to combined human and machine operational environments.

Blueforce core benefits for the MUM-T Mission...

Rapid Swarm of People, Sensors, and Services: Secure publish/subscribe interfaces enable the rapid formation of human and sensor networks using DoD protocols, commercial standards, open APIs, and maximized use of open architecture componentry.

Modular Open System Architecture (MOSA): Blueforce was built as a MOSA platform ensuring sustainability built for loosely coupled systems enabling extensibility and rapid adaptation embracing legacy sensors, new sensors, and/or new capabilities as requirements emerge.

Edge Based Autonomous Services: Blueforce runs at the "edge" delivering sensor fusion, cueing, and orchestration ensuring ultra-low latency in autonomous coordination between people, UGS, AI & information services, with assured multidirectional data flows.

KMA 5.56 FUSION / Maintenance "Round" Counter

Command and Control (C2)

Cloud Server

Autonomous Replenishment "Direct to Shooter"

Predictive Maintenance Via the Wilcox Armorer's Module Provides Life Cycle Management

EUD

End User Device (EUD) LTE / GPS Networked Squad Level Autonomous Transmitters

THUNDERBOLT
Unmanned System Architecture Alignment C2

Force Readiness Display Weapon Location and Status

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Tactical Awareness Real-time Shared Awareness Amongst the Networked Team and Command Element

BlueforceEDGE: Multi-Sensor Fusion, Cueing, and Orchestration
Supporting 400+ sensors and AI from 125+ manufacturers with an open API/SDK

Sensor Fusion
Blueforce eliminates silos of sensor and IoT data, enabling sense-making by leveraging multiple sensors for recognitional support.

Sensor Cueing
Blueforce enables sensors from different manufacturers to "instruct" each other to performs actions that lead to better and faster outcomes.

Autonomous Orchestration
Once a threat or opportunity is "recognized" Blueforce can coordinate action to include workflows, messaging, and content triggering.

FIPS 140-2 Security
Information security at rest and in transit using military grade FIPS 140-2 certified cryptography for authentication and encryption.

Rapid Adaptation
BlueforceEDGE provides a "future-proof" plugin platform for sharing of sensors, information services, and bi-directional data streams.

Sustainable and Future Proof
Blueforce builds software for sustainability. Contemporary development practices, one code base, and a support organization to back it up.

Blueforce and the Internet Battlefield of Things eBook: Read about the SIX capabilities, powered by Blueforce's edge IoT technology, that deliver immense capability to the MUM-T mission.

DOWNLOAD HERE

blueforce development

To learn more and request a demo visit:
www.blueforcedev.com