

Dominator™-X

The most efficient integrated dismounted-warrior suite for maximum combat effectiveness in multidomain operations





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Strategic and operational need

Combat effectiveness and survivability of dismounted forces in the modern battlespace requires real-time situational awareness and seamless integrated networked communications. Integration of “on soldier” IoT equipment (weapons, sensors) and integration of soldier to network provides the soldier with multidomain networked sensors and effectors capabilities. Dominator™-X dramatically improves performance on the battlefield. The combat-proven solution is in operational use in the IDF and NATO countries in Europe.

Solution overview

Dominator™-X is an advanced networked solution that enhances combat effectiveness and survivability of dismounted close combatants. The warrior suite comprises integrated hardware components, C⁴I applications and an advanced Load Carriage System developed by Elbit Systems. The solution improves soldier lethality and survivability by integrating the soldiers’ sensors and effectors to the network. The connected soldier can use all sensors and effectors that are connected to the network, dramatically shortening the sensor-to-shooter loop.

Designed to meet the challenges of multidomain warfare, Dominator™-X delivers real-time situational awareness with automatic data dissemination based on hierarchy and geography. The solution enhances capabilities for all members of the platoon, including Blue Force Tracking, enemy (red) tracking, reports, mission planning, navigation, terrain analysis, augmented reality and 3D visualization.



Complete integrated dismounted soldier suite

Dominator™-X includes advanced C² applications, personal network radios, mobile computing devices, tracking devices, augmented reality display and sensors. With a seamless integration approach, the solution significantly improves soldier effectiveness and survivability. Dominator™-X uses an optimal ergonomic and biomechanical design, combined with an advanced mechanism for ideal weight distribution, stabilization and tight fit. The suite features a modular advanced load carriage and protective measures, enhancing maneuverability and combat effectiveness on the battlefield, including full armor protection according to NIJ 0101.06, level IV.



Open architecture

Based on Elbit Systems C⁴ISR service platform, Dominator™-X is designed as an open architecture “evergreen” ecosystem that can accommodate third-party applications and provide the development environment for future growth and requirements. The system supports common interoperability standards and can be integrated to multiple IoT soldier devices, sensors, effectors, target acquisition devices and communications networks.



AI-based decision support

Dominator™-X features decision support tools to reduce the soldier’s cognitive load. These tools recommend navigation routes, observation posts and CASEVAC routes. Dominator™-X automatically collects and stores the soldier’s physiological data and alerts the soldier and chain of command when a soldier is approaching the physiological combat effectiveness threshold.



Operation of manned and unmanned systems

Dominator™-X seamlessly supports integration and operations of unmanned systems along with human soldiers. Soldiers can use Dominator™-X to task UGVs and UAS. The system autonomously directs the optimal networked effector/s to accomplish the task.



User experience

Dominator™-X is built for the dismounted combat environment, from the comfort of the Load Carriage System to minimizing the required cognitive load. Using the most advanced augmented reality technologies, Dominator™-X presents actionable, context-aware data allowing the soldier to focus on the combat activities in the battlefield.



Modular and scalable

Dominator™-X components can be tailored to the needs of all soldier types, including commanders, team leaders, forward observers, snipers, special weapons operators and riflemen.



Security

Dominator™-X is a secured battle management system, designed and developed as a secured system for all echelons of the ground forces. The system is accredited by the world’s leading intelligence alliances and compliant with all major security standards. Dominator™-X is penetration tested on a regular basis and updated to withstand new emerging cyber security threats.



Survivability

To enhance the dismounted soldiers’ survivability, Dominator™-X includes advanced NIJ 0101.06 level IV armor protection including hard and soft ballistics. The lightweight and ergonomic design provides an optimal balance between comfort and operational performance.

Soldier-centric integrated system with advanced networked components



RAPTOR™

Compact, rugged, all-in-one tactical wearable computing unit.



SmartEye

Smart MIL-standard glasses for augmented situational awareness.



Smart WristView

A compact computer and display worn conveniently with a strap on the wrist or elsewhere, serving as a powerful tactical device for the dismounted soldier.



SmarTrack

Reliable tracking, monitoring and data link for the dismounted soldier for GPS denied environments



Torch-X Dismounted App

Integrated warrior combat networked solution for enhanced combat effectiveness and survivability of special forces and infantry across all echelons.



Power & Data HUB

Dynamic power distribution & Data Routing



E-LynX™ Soldier Radio

A powerful SDR personal radio with no GPS reliance for network services. The IP radio offers ad-hoc networking capabilities including multi-hop services for voice and data.



Fortware

Lightweight, thin advanced personal ballistic panel solutions.

MUM-T

Autonomous, robust, lightweight, multi-mission tactical support.



Dismounted-Joint Fires

Man-packed CAT-1 Passive target acquisition and designation system.



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Key Features

- Real-time situational picture
- AI-based decision support tools
- Support for man / unmanned teaming
- Supports numerous interoperability standards
- Seamless integration with IoT devices
- Navigation and target acquisition in a GPS-denied environment
- Augmented situation awareness picture
- Enhanced maneuverability and effectiveness using advanced ergonomic and modular LCP

Key Benefits

- Enhances combat effectiveness and survivability
- Modular and scalable
- Simple and intuitive user interface
- Battle-proven, secure and safe
- Operation in a GPS-denied environment
- Seamless target handoff



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