WinBMS™

Weapon-Integrated Battle Management System for enhanced force effectiveness

Elbit Systems™

C⁴I and Cyber

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Elbit Systems' Weapon Integrated Battle Management System (WinBMS) is a networked integrated battle management solution that enhances the connectivity and coordination of maneuvering forces at the tactical level. WinBMS' advanced suite of hardware and software products integrates the combat vehicle's sensor and weapons systems with the Battle Management System (BMS), upgrading the capabilities of the combat platform. WinBMS delivers a full-scale solution both at the task force level and within the combat platform, thereby increasing the combat effectiveness of the combined force.

Based on Elbit Systems' widely-deployed TORC^{2}H common infrastructure, WinBMS facilitates real-time coordination between fighting vehicles by incorporating the C^{4}I system with a variety of acquisition sensors, communications systems and weapons. WinBMS enables sensor-to-shooter closure in an efficient manner and minimal cycle time, achieving network warfare superiority.

A mature and battle-proven solution, WinBMS has been successfully integrated into a variety of tracked and wheeled vehicles worldwide, and is well integrated with a broad spectrum of weapon systems, sensors and radios from a range of manufacturers and vendors. The WinBMS modular architecture and extensive knowledge base makes it simple to integrate with additional vehicle types as well as with new weapons and other platform systems.

WinBMS' Force Vetronics provides a net-centric integrated information solution enabling:

- Near real-time targetable data distribution between the BMS and WinBMS systems
- Enhanced force situational awareness, collaboration and synchronization
- Improved effectiveness – maximized weapon ranges of force elements
- Increased targeting precision and overall force efficiency
- Greater frontage and dispersion of force elements
- Substantially decreased risk of friendly fire and collateral damage
- Significantly reduced need for voice communication in target acquisition and allocation

WinBMS Core Components

WinBMS comprises sophisticated building blocks, including comprehensive C² applications, advanced computing terminals, tactical multimedia routers and seamless communications systems to offer a truly integrated tactical solution on the battlefield.

BMS – An all-in-one C⁴I solution covering all army branches and echelons, BMS enables universal situational awareness as well as in-depth collaborative mission planning and management based on real-time information, and an always-updated Common Operational Picture (COP).
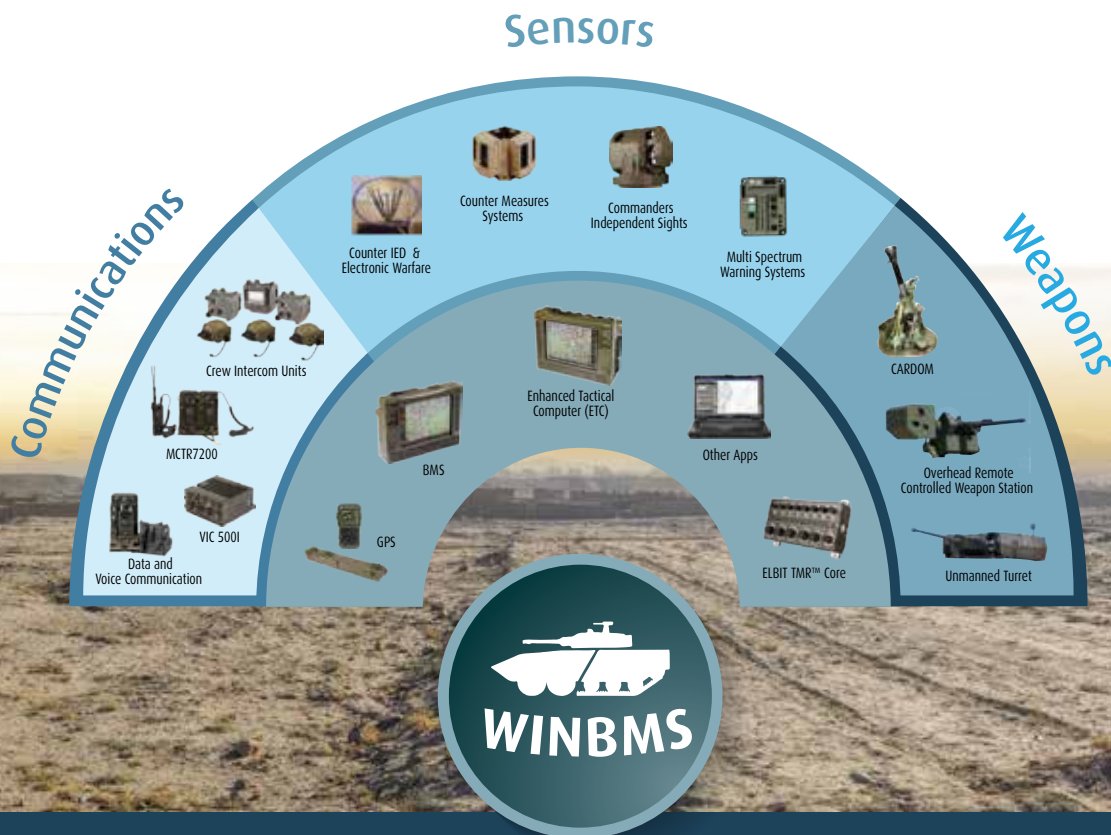
Computing Terminals – Tactical computers with different configurations run the WinBMS software and serve as the user interface for the vehicle's crew. Advanced capabilities are based on gunner / commander sight video processing, including video motion detection, tactical overlays displayed over video and common sight language between platforms.

ELBIT Tactical Multimedia Router Core (TMR™ Core) – WinBMS' central voice and data switching and routing unit, the TMR includes voice intercom, vehicle LAN, tactical voice and data network access and remote radio access for command vehicles.

ELBIT TIGER™ – Elbit System TIGER's tactical networking service is a sophisticated middleware that resides between the BMS applications and the tactical media bearers, providing seamless communication integration from the strategic level down to the individual soldier. TIGER operates over heterogeneous media bearers with variant communication attributes, creating a seamless and unified "Tactical Internet" while hiding the underlying complexities of the network from the applications and their operational users.

Aside from these core components, WinBMS incorporates a broad spectrum of weapon systems, sensors and radios from a range of manufacturers and vendors.

The WinBMS modular architecture and extensive knowledge base makes it simple to integrate with additional vehicle management system.

Sensors

Communications

Crew Intercom Units

MCTR7200

VIC 500I

Data and Voice Communication

Counter IED & Electronic Warfare

Counter Measures Systems

Commanders Independent Sights

Multi Spectrum Warning Systems

BMS

GPS

Enhanced Tactical Computer (ETC)

Other Apps

ELBIT TMR™ Core

Weapons

CARDOM

Overhead Remote Controlled Weapon Station

Unmanned Turret

WINBMS

WinBMS™

Weapon-Integrated Battle Management System for enhanced force effectiveness

Force multiplier, networking sensors and systems to enhance combat capability

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