

Combat-NG

Fire control and command solutions for artillery and air defense



Elbit Systems™

C⁴I and Cyber



Combat-NG

Fire Control And Command Solutions For Artillery And Air Defense

Elbit Systems' Combat-NG elevates artillery and air defence from a supporting role into a powerful force in its own right. With vastly improved command and control (C2) capabilities, Combat-NG improves the artillery and air defence forces' ability to destroy and degrade enemy targets. Combat-NG focuses on the following key performance requirements, making artillery a vital element in mission success.

- **Quick target engagement**
- **Effective and accurate fire**
- **Increased survivability**
- **Accurate situational awareness**
- **Enhanced coordination with maneuvering forces**
- **NATO compliance compatible**

- Sensor-to-shooter loop

- Increased survivability

- Effective fire power

- Comprehensive solution

- Multiple firing platforms

- Phased implementation

- Improved logistics

Combat-NG is a complete C⁴I solution for field artillery and air defense. Integrating state-of-the-art technologies to accurately deliver lethal fire power, Combat-NG integrates advanced C² applications, tactical computers, fire control systems, advanced radio communications and a broad range of sensors.

With more than 35 customers worldwide and three decades of experience, Combat-NG is fully battle-proven, leveraging a proud legacy of operational and technical excellence. All hardware components, communications and C² applications are developed in-house. In addition, Combat-NG incorporates Elbit Systems' unique know-how in artillery processes, ballistic computing and battlefield management as well as installation and integration services.

Elbit Systems has proven experience with a large variety of artillery guns, launchers and mortars and with the integration of a wide range of radios and artillery sensors. Elbit Systems is the sole supplier of fire support solutions to the Israeli Ministry of Defense.

Key Features

Combat-NG uses customizable building blocks providing a comprehensive fire support solution. Utilizing existing infrastructure and equipment, Elbit Systems delivers solutions from the level of an individual firing platform (gun, mortar or launcher) up to brigade headquarters.

Key features of Combat-NG include:

- Customizable for all types of firing platforms
- Integrated fire control system
- Muzzle velocity radar
- Inertial navigation systems
- Advanced day and night target acquisition system for the forward observers
- Firing locating/correcting radar
- Meteorological system
- UAVs and UGVs for target recognition and scouting
- Interface with other C⁴I systems
- Multiphase implementation

Operational Benefits

Combat-NG's superior capabilities make artillery and air defence a vital element in mission success.

- Rapid target engagement
- Improved accuracy
- Superior situational awareness
- Modular and scalable
- Increased survivability
- Full coordination with maneuvering forces
- Improved logistics

Combat-NG

Fire control and command solutions for artillery and air defense

Supports the full spectrum of military operations, structure and methods

- High Intensity Conflict, Low Intensity Conflict, Training
- Maneuver / Attrition
- Centralization / Decentralization
- Micro Management / Macro Management

Deployed in multiple operational environments and platforms

- Stationary, Deployed, Mobile, Dismounted
- PCs, RPLs, Tactical Computers, PDAs

Sensor connectivity

- Sensors connected at any site in the system, or in designated "sensor hubs"
- Sensor data is integrated and spatially distributed to all interested units
- Supports plug-in integration of new sensor types

NATO Standards

Map & Tactical Situation Display	
STANAG 2019	Military Symbols for Land Base Systems APP-6
STANAG 3809	Digital Terrain Evaluation Data Exchange Format – DTED
Formalized Text Message	
STANAG 5500	NATO Message Text Formatting System – ADATP -3
STANAG 7149	NATO Message Catalogue
Internet Protocol Exchange	
STANAG 5525	NATO force connectivity - JC3IEDM
MIL-STD-6017	Variable Message Format over IP
Intelligence	
STANAG 4559	NATO Standard ISR Library Interface - NSILI (Intelligent Data retrieval)
STANAG 4607	NATO Ground Moving Target Indicator Format – GMTIF (from radar)
STANAG 4545	NATO Imagery Transfer
STANAG 4609	NATO Digital Motion Imagery Format (Video)
Meteorological Messages	
STANAG 4082	Standard Artillery Computer Meteorological Message - METCM
STANAG 4061	Standard Ballistic Meteorological Message METB2-B3 Artillery Mean Meteorological Message – MET11
Ballistic Calculation	
STANAG 4119	Standard Artillery Firing Table Format
FM 3-09	Artillery Procedures
FM 6-20, 6-30	



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