MISSILE DEFENSE AGENCY

Fact Sheet

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Command and Control, Battle Management, and Communications

The Command and Control, Battle Management and Communications (C2BMC) program is the integrating element of the Missile Defense System (MDS). It is a vital operational system that enables the United States President, Secretary of Defense, and Combatant Commanders at strategic, operational, and tactical levels to systematically plan missile defense operations, to collectively see the battle develop, and to dynamically manage designated networked sensors and weapons systems to achieve global and regional mission objectives.

C2BMC supports a layered missile defense capability that enables a synergized response to threats of all ranges in all phases of flight. C2BMC is the force multiplier that globally and regionally networks, integrates, and synchronizes autonomous sensors and weapon systems to optimize operational performance. C2BMC is an integral part of all system ground, flight and cybersecurity tests which verify and exercise current and future MDS capabilities.

Through its operational software and communications networks, the C2BMC program provides robust connectivity and enables on-site operations and sustainment for global Combatant Commanders. C2BMC provides key MDS operational services through six lines of effort:

Ballistic Missile Defense Planner
- Allows the Warfighter to collaboratively plan, coordinate, and optimize high-demand, low-density MDS resources.
- Provides collaborative planning and defense design development capabilities at all levels of command – strategic, operational, and tactical.

Command and Control
- Provides situational awareness by transforming diverse and complex sensor data into decision quality information for Combatant Commanders.
- Emphasizes a common, single, and integrated missile defense picture and provides the overall status of the MDS to all levels in the chain of command, from operational forces to the President.

Battle Manager
- Supports multiple tier engagement coordination and provides MDS battle management capability.
- Acts as a force multiplier to achieve an integrated and layered ballistic missile defense system through improved sensor resource management and engagement coordination.

Ballistic Missile Defense Network
- Provides secure network communications for the individual sensors and weapon system elements of the MDS.
- Provides robust, high-availability, worldwide connectivity to quickly and unambiguously share information across the MDS.

Concurrent Test, Training, and Operations
- Provides Combatant Commanders the ability to participate in exercises, provide training, and test and rehearse mission scenarios while the system is in an operational or "on alert" state.
- Enables the Warfighter to conduct distributed, high–fidelity, Operator-in-the-Loop, end-to-end training for missile defense operations.

International Interoperability
- Integrates allied sensor and weapon systems from missile defense partner nations into the MDS in accordance with international agreements
- The C2BMC Program supports warfighters in establishing international interfaces and works with partner nations to support international systems engineering, testing, and policy agreements