

# Terminal High Altitude Area Defense (THAAD) Radar, Command & Control and Battle Management Communications (C2BMC)



**THAAD C2BMC** provides proven, state-of-the-art, quality components for the newest generation of tactical missile defense.

## Benefits

- Provides near penetration-proof missile defense of critical and high value assets
- Employs kinetic energy, hit-to-kill to destroy targets

The Terminal High Altitude Area Defense (THAAD) system is the upper tier element of the Missile Defense Agency's Terminal Defense Segment. The higher altitude and region-wide protection furnished by the THAAD system interfaces with the lower tier defenses, such as Patriot and sea-based missile defense systems, providing a near penetration-proof missile defense of critical and high value assets.

The THAAD program is developing a complete, integrated weapon system consisting of launchers, missiles, battle management command and control, and radars. The THAAD missile employs kinetic energy, hit-to-kill, rather than an explosive warhead technology to destroy the target. The THAAD Radar is an X-band, phased array, solid-state radar. The radar design delivers high power output and exceptional beam/waveform agility in order to support the long range

functional requirements of the THAAD mission. The THAAD element components work in concert to detect, assign and destroy incoming short to medium range ballistic missiles. Lockheed Martin is the prime contractor for the THAAD system with Raytheon providing the THAAD Radar Sensor, C2BMC Tactical Shelter Groups, and support to Weapon Systems Engineering, Launcher, and Weapon Systems Test Engineering.

# Terminal High Altitude Area Defense (THAAD) Radar and C2BMC

## Status

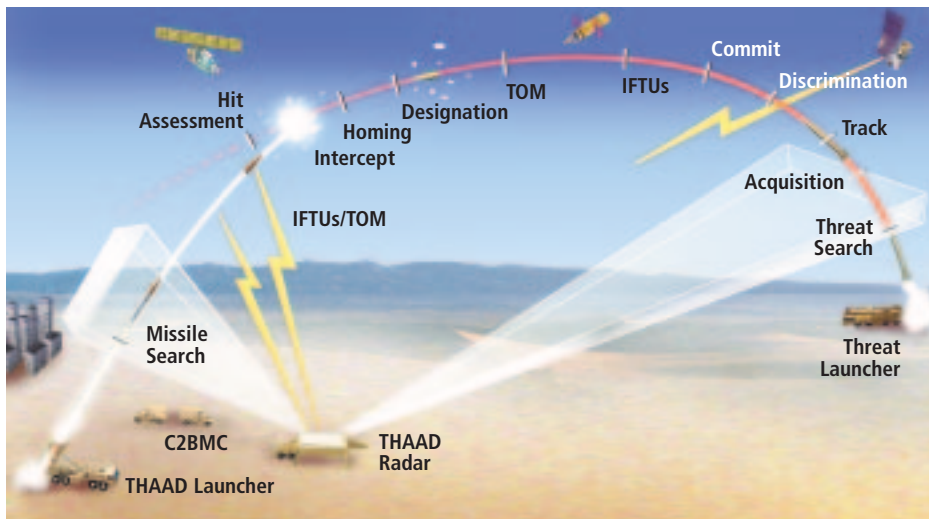
The THAAD program is in the development program contract phase of the DoD's acquisition process after having completed the previous phase's exit criteria and accomplishing back-to-back direct hit intercepts in 1999. Raytheon will deliver two radars and six C2BMC tactical shelter groups for flight and system testing during this phase. This will provide incremental block capabilities as part of the evolving Ballistic Missile Defense System of systems.

## Solid-State X-Band Phased Array Radar

- Surveillance for SR and MRBMs
- Antenna, electronics unit, cooling unit, diesel generator
- Array populated with 25,344 X-band transmit/receive modules
  - 9.2 meter square aperture
- Transportable via C-5 and C-17 sorties

## Operational Concept

- Surveillance/detection
- Track
- Discrimination
- Hit assessment
- Cue lower tier



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