

# PATRIOT (PAC-3)

## INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



## MISSION

To protect ground forces and critical assets at all echelons from advanced aircraft, cruise missiles, and tactical ballistic missiles.

## DESCRIPTION

The PATRIOT Advanced Capability (PAC)-3 program is an air-defense, guided missile system with long-range, medium- to high-altitude, all-weather capabilities designed to counter tactical ballistic missiles (TBMs), cruise missiles, and advanced aircraft. The combat element of the PATRIOT missile system is the fire unit, which consists of a phased array radar set (RS), an engagement control station (ECS), a battery command post, an electric power plant (EPP), an antenna mast group (AMG), a communications relay group (CRG), and launching stations (LS) with missiles.

The RS provides the tactical functions of airspace surveillance, target detection, identification, classification, tracking, missile guidance, and engagement support. The ECS provides command and control. Depending upon

configuration, the LS provides the platform for PAC-2 or PAC-3 missiles, sealed in canisters that serve as shipping containers and launch tubes.

The PAC-3 primary mission is to kill maneuvering and non-maneuvering TBMs, and counter advanced cruise missile and aircraft threats. The PAC-3 missile uses hit-to-kill technology for greater lethality against TBMs armed with weapons of mass destruction. The PAC-3 system upgrades have provided improvements that increase performance against evolving threats, meet user requirements, and enhance joint interoperability. PATRIOT's fast-reaction capability, high firepower, ability to track numerous targets simultaneously, and ability to operate in a severe electronic countermeasure environment make it the Army's premier air defense system. The PAC-3 Missile Segment Enhancement (MSE), currently in development, is planned to be used with the PAC-3 system and will be the baseline interceptor for the Medium Extended Air Defense System, which succeeds the PATRIOT system.

## SYSTEM INTERDEPENDENCIES

Medium Extended Air Defense System (MEADS), Terminal High Altitude Air Defense (THAAD), Joint Land Attack Cruise Missile Defense Elevated Netted Sensors Systems (JLENS), Integrated Air and Missile Defense (IAMD)

## PROGRAM STATUS

- **1QFY09:** Post Deployment Build-6.5 (PDB-6.5) development, test and evaluation

## PROJECTED ACTIVITIES

- **3QFY07–1QFY11:** MSE flight testing
- **2QFY10:** Post Deployment Build-6.5 (PDB-6.5) initial operational capability

## ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

## PATRIOT (PAC-3)

### FOREIGN MILITARY SALES

Germany, Greece, Israel, Japan, Kuwait, Saudi Arabia, Spain, Taiwan, The Netherlands, Korea, United Arab Emirates

### CONTRACTORS

**PATRIOT system integrator, ground system modifications, recapitalization program:**

Raytheon (Andover, MA; Bedford, MA)

**PAC-3 Missile sub-assembly and assembly:**

Lockheed Martin (Grand Prairie, TX; Camden, AR; Lufkin, TX)

**PAC-3 Missile Seeker sub-contractor:**  
Boeing (Huntsville, AL)

