

PATRIOT Advanced Capability–Three (PAC-3)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



MISSION

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

DESCRIPTION

The PATRIOT Advanced Capability–Three (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, an antenna mast group, a communications relay group, 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, which are 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, 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

In this Publication

Air/Missile Defense Planning and Control System (AMDPACS); Integrated Air and Missile Defense (IAMD); Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS); Joint Tactical Ground Stations (JTAGS)

Other Major Interdependencies

ABMOC, AEGIS, AMDTF, AOC, AWACS, CRC, HAWKEYE, IAMD, P/M CAP, PEO Integration, RIVET-JOINT, SHORAD, TACC, TAOC, THAAD

PROGRAM STATUS

- **1QFY09:** Post deployment build–6.5 (PDB-6.5) development, test, and evaluation

PROJECTED ACTIVITIES

- **3QFY07–1QFY11:** Missile Segment Enhancement (MSE) flight testing
- **3QFY12:** PDB-7
- **4QFY14:** MSE fielding begins

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

PATRIOT Advanced Capability–Three (PAC-3)

FOREIGN MILITARY SALES

Germany, Japan, Netherlands, Taiwan, United Arab Emirates

CONTRACTORS

Missile Program Management Team:

Lockheed Martin (Dallas, TX)

Seeker Program Management Team:

Boeing (Anaheim, CA)

Mods: Raytheon (Tewksbury, MA; Long Beach, CA)

Seeker Manufacturing/RFDL:

Lockheed Martin Missiles and Fire Control (Chelmsford, MA)

ELES: Lockheed Martin (Lufkin, TX)

System Integration:

Raytheon–El Paso (El Paso, TX)

Raytheon (Huntsville, AL)

Raytheon–Norfolk (Norfolk, VA)

Raytheon–Burlington (Burlington, MA)

Missile Assembly:

Lockheed Martin (Camden, AR)

Integration/GSE: Raytheon (Andover, MA)

Seeker: Boeing (Huntsville, AL)

Seeker Assembly: Boeing (El Paso, TX)

SRM/ACM: Aerojet (Camden, AR)

