Aviation Combined Arms Tactical Trainer (AVCATT)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION
To enable Army aviation units to rehearse and participate in a unit-collective and combined-arms simulated battlefield environment through networked simulation training.

DESCRIPTION
The Aviation Combined Arms Tactical Trainer (AVCATT) is a reconfigurable, transportable, combined-arms virtual training simulator that provides current and Future Force aviation commanders and units a dynamic, synthetic instructional environment. AVCATT enables realistic, high-intensity collective and combined arms training to aviation leadership, staff members and units, improving overall aviation task force readiness. It meets institutional, organizational, and sustainment aviation training requirements for Active and Reserve Army aviation units worldwide and enables geographic-specific mission rehearsals in both classified and unclassified modes before real-world mission execution. AVCATT is a critical element of the Combined Arms Training Strategy. It is distributive interactive simulation (DIS) and high-level architecture (HLA) compliant, and is compatible and interoperable with other synthetic environment systems. AVCATT supports role-player and semi-automated blue and opposing forces.

The AVCATT single suite of equipment consists of two mobile trailers that house six reconfigurable networked simulators to support the Apache, Apache Longbow, Kiowa Warrior, Chinook, and Black Hawk. An after-action review theater and battle master control station is also provided as part of each suite.

AVCATT builds and sustains training proficiency on mission-essential tasks through crew and individual training by supporting aviation collective tasks, including armed reconnaissance (area, zone, route); deliberate attack; covering force operations; downed aircrew recovery operations; joint air attack team; hasty attack; and air assault operations.

AVCATT is fully mobile, capable of using commercial and generator power, and is transportable worldwide.

SYSTEM INTERDEPENDENCIES
AVCATT requires Synthetic Environment Core (SE Core) to provide terrain databases and virtual models. The One Semi-Automated Forces (OneSAF) will provide a common SAF through SE Core in the future.

PROGRAM STATUS
- **1QFY09:** Fielding of 19 suites completed; includes support to Army National Guard as well as U.S. forces in Germany, Korea, and Hawaii

PROJECTED ACTIVITIES
- **2QFY09:** Initiate development of Digital Communications Baseline, Tactical Message Format
- **2QFY09:** Initiate development of Kiowa Warrior concurrency upgrade
- **3QFY09:** Field the first system with upgraded visual system: helmet-mounted display and image generator
- **3QFY09:** Field production suites 20, 21 and 22
- **4QFY09:** Field production suite 23
- **2QFY10:** Field the first system with Longbow Block I, Software 6.1 and Block II, Software 10.0 concurrency upgrade
- **2QFY10:** Complete fielding of Common Missile Warning System (CMWS) to all AVCATT systems
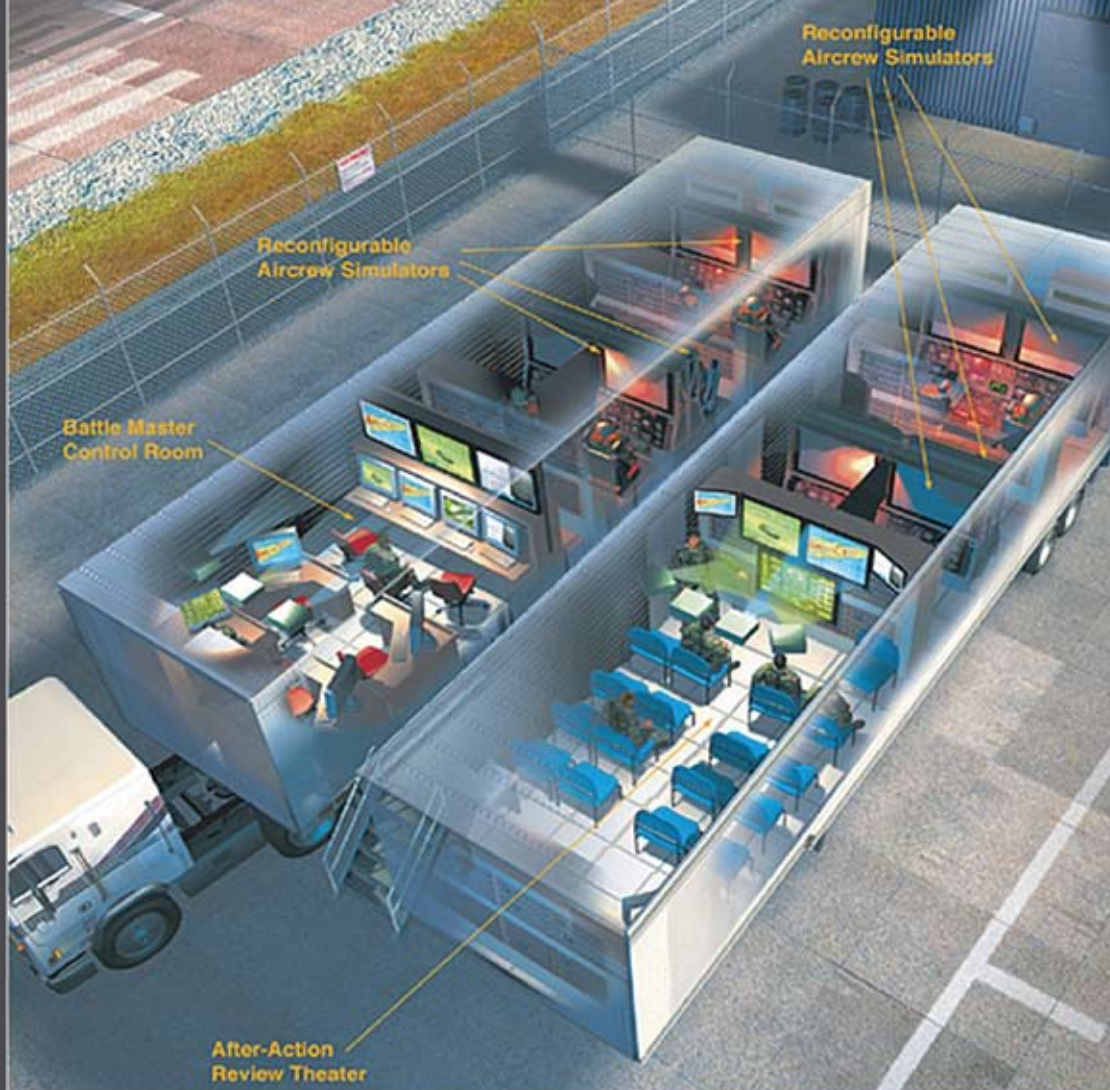
ACQUISITION PHASE

Technology Development	Engineering & Manufacturing Development	Production & Deployment	Operations & Support

UNITED STATES ARMY

AVCATT–A
2 Trailer Suite

Reconfigurable Aircrew Simulators

Reconfigurable Aircrew Simulators

Battle Master Control Room

After-Action Review Theater

Manned Simulator

Aviation Combined Arms Tactical Trainer (AVCATT)

FOREIGN MILITARY SALES
None

CONTRACTORS
L-3 Communications (Arlington, TX)

Apache
AH-64A

Kiowa Warrior
OH-58D

Chinook
Ch-47D

Black Hawk
UH-60A/L

Apache Longbow
AH-64D

WEAPON SYSTEMS 2010