

# Aviation Combined Arms Tactical Trainer (AVCATT)

## INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

## MISSION

Provides a collective training system to meet aviation training requirements and to support institutional, organizational, and sustainment training for Active and Reserve Army aviation units worldwide in combined arms training and mission rehearsal.

## DESCRIPTION

The Aviation Combined Arms Tactical Trainer (AVCATT) is a mobile, transportable, multi-station virtual simulation device designed to support aviation unit collective and combined arms training. AVCATT provides manned modules reconfigurable to any combination of attack, reconnaissance, lift and/or cargo helicopters. There are four role player stations for battalion/squadron staff, combined arms elements, integrated threat or friendly Semi-Automated Forces (SAF). Exercise record/playback

with simultaneous AAR capability is provided. All 23 AVCATT suites have been fielded. The suites are continually upgraded. The Non-Rated Crew Member Manned Module (NCM3) and SE Core/OneSAF Integration represent the largest, current efforts.

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 a battle master control station are 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, and route); deliberate attack; covering force operations; downed aircrew recovery operations; joint air attack team; hasty attack; and air assault operations. The system also has multiple correlated visual databases to include Iraq and Afghanistan.

AVCATT is fully mobile, capable of using commercial and generator power, and is transportable worldwide. The system is interoperable via local area network/wide area network with other AVCATT suites and the Close Combat Tactical Trainer.

## SYSTEM INTERDEPENDENCIES

### In this Publication

One Semi-Automated Force (OneSAF)

### Other Major Interdependencies

AVCATT requires Synthetic Environment Core (SE Core) to provide terrain databases and virtual models. OneSAF will provide a common SAF through SE Core in the future.

## PROGRAM STATUS

- **1QFY10:** Fielding of 23 suites completed; program has satisfied its Basis of Issue Plan
- **2QFY10:** Award of NCM3 development contract; NCM3 will represent the “third trailer” of AVCATT
- **4QFY10:** All 23 suites: Multimillion dollar upgrades complete; effort provided technology refresh (new image generators, head mounted displays, host and gate computers, and communications system)

## PROJECTED ACTIVITIES

- **3QFY11:** SE Core and OneSAF integration complete; begin fielding new software baseline with new model/database/SAF capabilities
- **4QFY11:** Field first NCM3 to Ft. Campbell, KY
- **1QFY12:** Field second NCM3 to Ft. Campbell, KY

## ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

**AVCATT-A**  
2 Trailer Suite



**Aviation Combined Arms Tactical Trainer (AVCATT)**

**FOREIGN MILITARY SALES**

None

**CONTRACTORS**

**AVCATT:**

L-3 Communications (Arlington, TX)

**NCM3:**

Science Applications International Corp.  
(SAIC) (Orlando, FL)



**Manned Simulator**

**Manned Simulators**



**Apache AH-64A**



**Kiowa Warrior OH-58D**



**Chinook Ch-47D**



**Black Hawk UH-60A/L**



**Apache Longbow AH-64D**

