Aviation Combined Arms Tactical Trainer (AVCATT)

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 in support of full-spectrum operations.

DESCRIPTION
The Aviation Combined Arms Tactical Trainer (AVCATT) is a mobile, transportable, multistation virtual simulation device designed to support unit collective and combined arms training. AVCATT provides six 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. The Non-Rated Crew Member Manned Module (NCM3, a sub-system of AVCATT) will be a mobile, transportable, multistation virtual simulation device designed to support training of non-rated crew members in crew coordination, flight, aerial gunnery, hoist, and slingload-related tasks.

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, 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 (CCTT).

SYSTEM INTERDEPENDENCIES
Other Major Interdependencies
AVCATT requires Synthetic Environment Core (SE Core) to provide terrain databases and virtual models; AVCATT requires the OneSAF program to provide the common SAF available to multiple virtual training simulators.

PROGRAM STATUS
• 1QFY11: Block II Kiowa Warrior upgrade complete
• 4QFY11: Fielding of the first Non-Rated Crew Member Manned Module (NCM3) to Ft. Campbell, KY

PROJECTED ACTIVITIES
• 1QFY12: SE Core and OneSAF integration complete; begin fielding new software baseline with new model/database/SAF capabilities
• 1QFY12: Production and fielding of the 2nd NCM3 to Ft. Campbell, KY
• 2QFY12: UH-60M and CH-47F upgrade contract awarded
• 2QFY12: Production and fielding of 3rd, 4th, and 5th NCM3s
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FOREIGN MILITARY SALES
None

CONTRACTORS
AVCATT:
L-3 Communications (Arlington, TX)

NCM3:
SAIC (Orlando, FL)

Technology Refresh:
AVT (Orlando, FL)

AVCATT-A
2 Trailer Suite

Manned Simulator

Manned Simulators
- Apache AH-64A
- Kiowa Warrior OH-58D
- Chinook Ch-47D
- Black Hawk UH-60A/L
- Apache Longbow AH-64D