COUNTER-ROCKET, ARTILLERY, MORTAR

The C-RAM Program Directorate (PD) is responsible for life cycle management of automated Air and Missile Defense (AMD) command and control (C2) systems, including the Forward Area Air Defense Command and Control (FAAD C2) system and the Air and Missile Defense Planning and Control System (AMDPCS). PD C-RAM also manages the C-RAM and RAM Warn programs, to provide force protection against the indirect fire (IDF) threat.

Mission

PD C-RAM is responsible for the overall management of activities related to research, development, acquisition, fielding, and sustainment of RAM Warn (Acquisition Category (ACAT) III) to the Brigade Combat Teams (BCT) and for automated Air and Missile Defense C2 systems, to include the FAAD C2 system (ACAT II) and the AMDPCS (ACAT III). Additionally, PD C-RAM serves as the Lead System Integrator for C-RAM SoS. This responsibility includes the development of C-RAM C2 and the holistic C-RAM capability, and ensuring effective interfaces are developed and maintained between the Air Defense C2 and C-RAM systems and the Mission Command Networks and Systems, other services, and allied nations.

For more information, please contact:
PEO Missiles and Space
Counter-Rocket, Artillery, Mortar
Attention: SFAE-C3T-CR
5250 Martin Road
Redstone Arsenal, AL 35898
(256) 876-9100
Visit the PEO MS website:
http://www.msl.army.mil

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System Description - C-RAM

C-RAM is an evolutionary, non-developmental program initiated by the Army Chief of Staff in response to the IDF threat and validated theater requirements. It detects RAM launches; provides early, localized warnings to the defended area; intercepts rounds in flight; and enhances response to and defeat of enemy forces. C-RAM is comprised of a combination of multi-service fielded and non-developmental item sensors, C2 systems, a modified U.S. Navy intercept system, a low cost COTS warning system, and wireless LAN. C-RAM is currently deployed at multiple sites in two theaters of operation, providing correlated air and ground pictures, linked to the Army Mission Command and the Joint Defense Network, for situational awareness and exchange of timely and accurate information to synchronize and optimize automated Shape, Sense, Warn, Intercept, Respond, and Protect decisions. C-RAM Intercept is transitioning to an acquisition program for future fielding to designated Army units. Ongoing near-term improvements to the current C-RAM SoS capability, based on emerging theater requirements, include the development/fielding of enhanced sensors and an improved interceptor.

System Description – RAM Warn

RAM Warn is a horizontal technology insertion effort using current C-RAM Warning equipment to provide early, localized warning to all Maneuver BCTs. It will employ the Air Defense Airspace Management (ADAM) Cell already resident in the BCT Headquarters as the C2 element, use existing radars already in the Target Acquisition Platoon of the Fires Battalion as the Sense element, and add Warning devices, controllers, and dedicated communications devices between the existing radars and the ADAM Cell.

System Description - FAAD C2

FAAD C2 provides the engagement operations interface between the Sentinel and the Avenger/ MANPADS. FAAD C2 software collects, digitally processes, and disseminates real-time target cueing and tracking information; displays the common 3-dimensional air picture; and provides command, control, and intelligence information to the Avenger and MANPADS. FAAD C2 software, as a key component of the ADAM Cell, provides Maneuver commanders at all echelons with air battle management and airspace situational awareness data. Division and Brigade commanders also receive a single, correlated low altitude air picture from FAAD C2 sensor nodes. FAAD C2 processors are housed in standard Army shelters as a type-classified and materiel-released system.

System Description - AMDPCS

AMDPCS is an Army Objective Force system, providing integration of AMD operations at all echelons. AMDPCS shelter systems are centered around a single type-classified and materiel-released baseline shelter, the ADAM Cell. Depending on echelon, ADAM Cells are fielded at Corps, Divisions, BCTs, and Multi-Functional Support Brigades (MFSBs), providing Commanders at Divisions and BCTs with air defense situational awareness and airspace management capabilities. AMDPCS configurations are also deployed with Air Defense units, including AAMDCs, ADA Brigades, and ADA Battalions. AMDPCS provides two major subsystems used in air defense force operations and engagement operations - the Air and Missile Defense Workstation, a staff planning and battlespace situational awareness tool that provides commanders at all echelons with a common tactical and operational air picture, and the Air Defense System Integrator, which serves as a multi-Tactical Digital Information Link/communications processor for external links.