

CRUISE MISSILE DEFENSE SYSTEMS

The CMDS Project Office is equipping the Air and Missile Defense (AMD) current force with capability in an Integrated Air and Missile Defense System of Systems. CMDS programs include Radars, Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS), Improved Sentinel Radar, STINGER Based Systems and Integrated Fire Protection Capability Increment 2–Intercept (IFPC2-I), a pre-Major Defense Acquisition Program (MDAP).

Mission

CMDS protects the force and selected geopolitical assets from aerial attack, missile attack, and enemy surveillance. CMDS systems also protect the maneuver force and other critical assets to include the National Capital Region against Cruise Missiles (CMs), Unmanned Aerial Systems (UAS), and Rotary Wing (RW) and Fixed Wing (FW) aircraft in the near term and against an expanded threat set, including Rocket, Artillery and Mortar (RAM) projectiles.



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Radars

Radars manages battlefield radars that can detect, classify and locate enemy mortar, artillery, rocket and missile systems within seconds of their firing, allowing immediate and overwhelming counter-attack/responses.

Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS)

JLENS provides elevated persistent, Over-The-Horizon surveillance and fire control quality data against stressing cruise missiles and other air breathing threats and extends engagement ranges for current air defense weapon systems. A JLENS Orbit consists of two systems: a Fire Control Radar (FCR) system and a wide-area Surveillance Radar (SuR) system. Each system is comprised of a 74-meter tethered aerostat, a mobile mooring station, a radar, data and voice communications equipment, control group and associated ground support equipment. JLENS is designed to distribute surveillance, track, and identification data contributing to the Single Integrated Air Picture (SIAP) via Link 16 and the Cooperative Engagement Capability (CEC) networks.

Sentinel

Sentinel is a three-dimensional, battlefield X-band air defense tracking radar that provides commanders an integrated picture and cueing/target identification information for CMDS assets. The Improved Sentinel system provides persistent surveillance and fire control quality data to Army and Joint networks through C2 platforms enabling warning and protection of the U.S. and coalition forces, as well as, critical geo-political assets from CMs, FW/RW aircraft, and UAS. The Improved Sentinel system also provides a Counter-Rocket, Artillery and Mortar (C-RAM) mode for detection, acquisition and tracking of RAM fire. Implementation of this radar mode provides the ability to detect RAM fire in-flight within a range, timeline and accuracy that enables the capability to engage those threats before impact in defended areas.

STINGER Based Systems (SBS)

STINGER Based Systems are highly deployable and provide the mobility required to support today's maneuver force. STINGER, a short range fire-and-forget infrared/ultraviolet missile system, is both shoulder fired and mounted on a variety of air and ground based platforms. The Avenger is a lightweight, highly mobile, shoot on the move, short-range, surface to air missile and gun weapon system. The system employs a turret consisting of a gunner position, two missile launcher pods each containing four STINGER missiles, a Forward Looking Infrared Receiver (FLIR), a Laser Range Finder (LRF), an Identification Friend or Foe (IFF) system, and a high rate of fire .50 caliber M3P machine gun. The Avenger is the backbone of the air defense architecture defending our nation's capital region.

Indirect Fire Protection Capability Increment 2 – Intercept (IFPC2-I)

The IFPC2-I is a pre-Major Defense Acquisition Program preparing for Milestone A in early FY 13. IFPC2-I will provide a robust 360 degree intercept capability against RAM threats and a residual capability against UAS threats. It will integrate with current C-RAM and RAM warn capability. The program is executing an Analysis of Alternatives (AoA) which is evaluating kinetic (missile and gun) and/or directed energy concepts. Specific system attributes will be finalized by the AoA which will be completed in late FY 12.