

The Combat Training Centers (CTCs) are the Army's premier training institutions that replicate Large Scale Combat Operations (LSCO) with free thinking oppositional forces (OPFOR). The Special Operations Training Detachment (SOTD) Observes Coaches and Teaches (OC/T) SOF rotational units when they train at the CTCs. SOTD wants to replicate an IADs system that has the ability to emit on multiple frequency bands spanning from 2 GHz – 12 GHz. The system also needs to be able to transmit a signal that can be manipulated by the user to replicate current and future radar signatures. Characteristics of the signal that need to be able to be modified are bandwidth, duration, frequency, and modulation. Below are the top four problem statements that were created in the first collaboration event.

Problem Statement: Currently, CTCs lack the ranges, equipment, and resources to effectively replicate an adversary's Integrated Air Defense System (IADS) to include the emulation of adversary signals to enable find, fix, track, target.

Problem Statement: Determine the best approach/capability to provide realistic air defense (AD) targets for SOF supporting the air campaign and large-scale combat operations.

Problem Statement: There is currently no strong Counter-Integrated Air Defense community of Interest dedicated to building and pushing DOD to prepare for the near-peer/peer fight.

Problem Statement: CTCs do not have modular, economical, and effective emitters to represent IADs systems and their respective functions (ASV, BM, WC, C4I) for a diverse tactical user set (ground, air, EW, maritime, space)