

Electronic Warfare Planning Tools

TRACOMPS, TMG, MLV, and UMLV combine to provide the ALE-47 reprogrammability solution for in-country self-sufficiency

- Self-sufficiency for CDS reprogrammability
- User-friendly interface for ease of data entry
- Continuous read-out of engagement variables
- Quick analysis of engagement scenarios
- Support for all variations of threat, expendable, aircraft, and threat-adaptive dispensing systems

TRACOMPS is an advanced planning and simulation tool to accompany an aircraft countermeasure dispenser system (CMDS) such as the ALE-47. TRACOMPS is designed to allow the user's electronic warfare planning staff to develop optimized countermeasures dispensing routines for input into the Mission Data File (MDF) using the Threat Matrix Generator (TMG). The MDF parameters, using the TRACOMPS computer simulation results, then drive the chaff and flare response programs to provide maximum survivability effectiveness across the spectrum of threats and engagement scenarios. TRACOMPS is specifically tailored to the needs and requirements of the international military electronic warfare threat analyst.

TRACOMPS simulates and displays one-on-one tactical engagements by modeling in four categories:

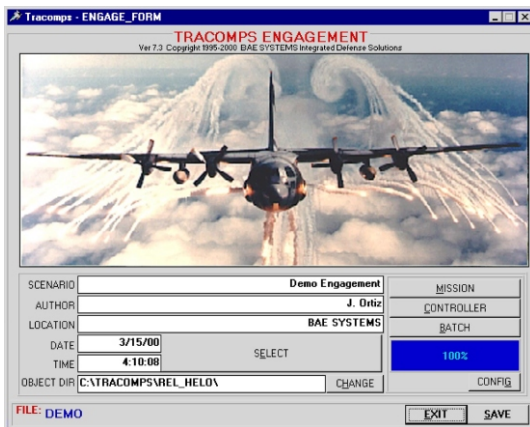
- Threats
 - IR and RF seeker characteristics
 - Missile dynamics and fly-out
- Aircraft (fixed-wing and helicopter)
 - IR and RF signatures
 - Airframe dynamics and fly-out
- Countermeasures
 - Chaff
 - Flare
- Engagement scenario
 - Initial conditions
 - Maneuvers

TRACOMPS includes:

- A desktop PC and printer
- BAE Systems user-friendly software
- A User's Manual and on-line help
- A training class and training aids

The TRACOMPS screen presents a color display of the simulated engagement showing aircraft and missile maneuvers, expendable dispenses, and user-selected engagement data.

TRACOMPS employs extremely flexible simulation software to maximize the range of definable threats, aircraft, countermeasures, and engagements. It allows the user to independently analyze engagements between a threat system and an aircraft. It provides continuously displayed data for immediate evaluation of the simulated engagement, including threat-breaklock and miss-distance. This allows the threat analyst to examine possible engagement scenarios and develop countermeasure dispense routines that maximize the probability of mission success while minimizing use of the limited inventory of on-board expendables. TRACOMPS is also a valuable flight test tool, allowing the test engineer to determine optimum test regions and conserve expensive test resources.



Developing an Optimized Countermeasure Routine

