**mercury**

JETS Graphical User Interface
For Mercury Advanced Radar Environment Simulators (ARES)

Generate real-world flight scenarios for radar testing in minutes

- User-friendly software interface with 20+ years proven performance
- Autocalibration for lab, open range, and other SUT testing environments
- Built-in test to help troubleshoot and identify hardware issues
- Customizable data-logging rates and data parameters
- Resource library to save scenarios, platform/radar settings
- Windows compatible
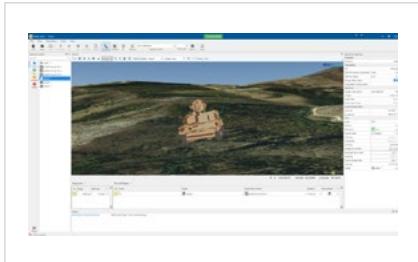
JETS (Jam Editor and Threat Simulator) is a Windows-based software interface used to configure, test, and visualize real-world mission scenarios on Mercury Advanced Radar Environment Simulators (ARES).

HIGHLIGHTS

- Real-time data display to dynamically observe radar performance and make instant adjustments during live emulation
- Built-in test (BIT) feature for thorough system checks and malfunctioning hardware identification for reliable and accurate emulation
- Data-logging rates and data parameters configuration to streamline data analysis and reduce file size
- Ability to import target and other parameters from a database
- Configure Doppler, range delay, pulse modulations for moving targets, atmospheric loss, ground and sea clutter, turbulence, weather and target reflections, RCS, glint, scintillation, multipath, target subscatters, electronic countermeasure techniques, and other simulation options to comprehensively test air-to-air, air-to-ground, and surface-to-air radar modes
- Define synthetic aperture radar (SAR) target locations and scene parameters on ARES-SAR systems to test ground moving targets (GMT) radar modes

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ARES-SAR JETS GRAPHICAL USER INTERFACE (GUI)

Compatible with any Windows computer, the ARES-SAR software interface allows users to manage scenario resources, set scenario parameters, control a simulation, and view or export real-time data.

Define ARES-SAR Scenario Properties

Specify simulation parameters including projection data base coefficient (PDB) set size

Auto calculate or specify SAR Aperture length

Specify scene center location

Specify synthetic aperture relative to image center

Specify relevant radar parameters

Define Radar Parameters

Specify ARES-SAR return power and target detection parameters

Specify relevant radar parameters.

Define SAR scene resolution and image size

Define Scattering Centers for Automatic Target Recognition (ATR) Testing

Import and edit scattering center database parameters

Define target angle of arrival (AOA)

Define scattering centers positional data for overall target return
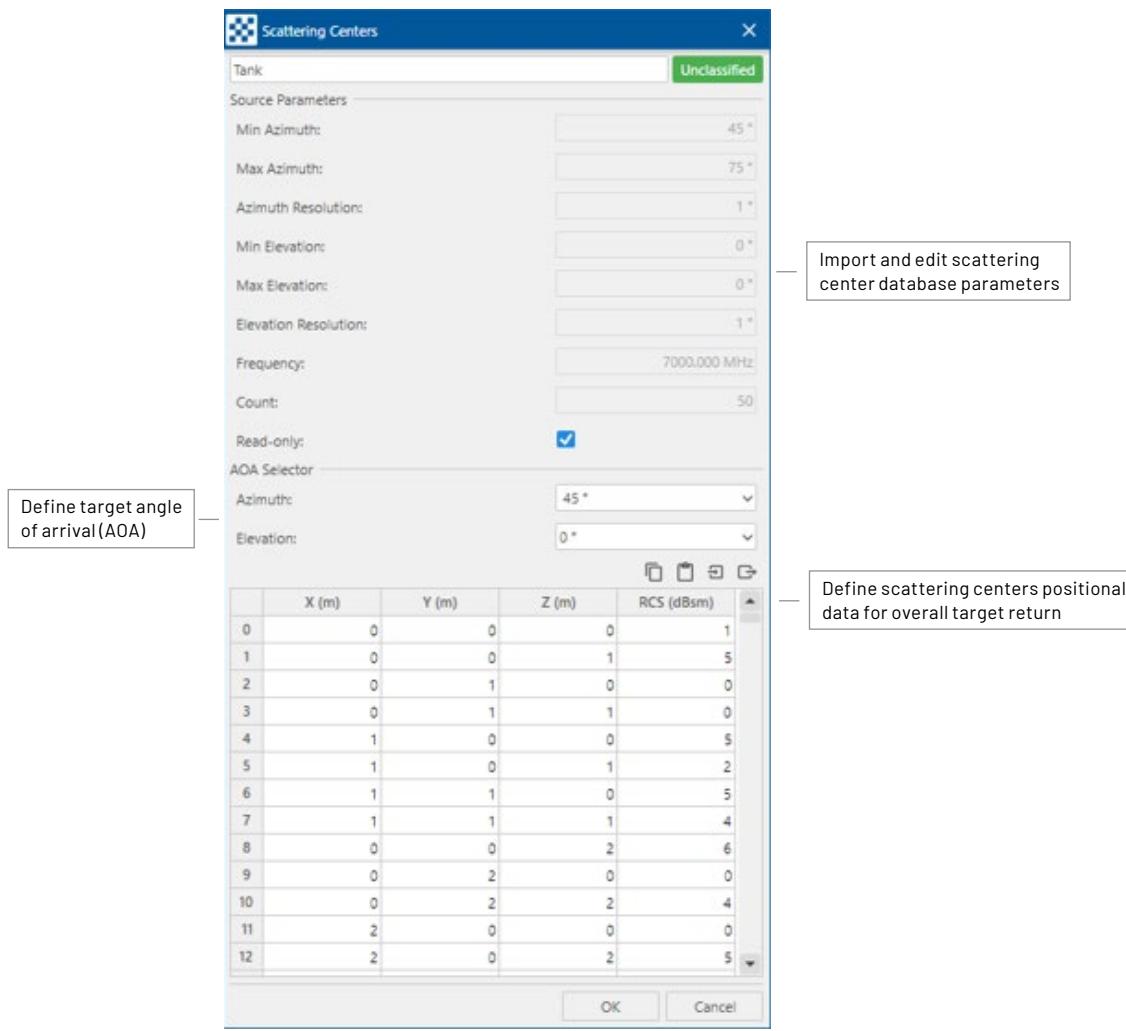
Define Ground Target Trajectory

Display target trajectory maneuvers, duration, and kinematics
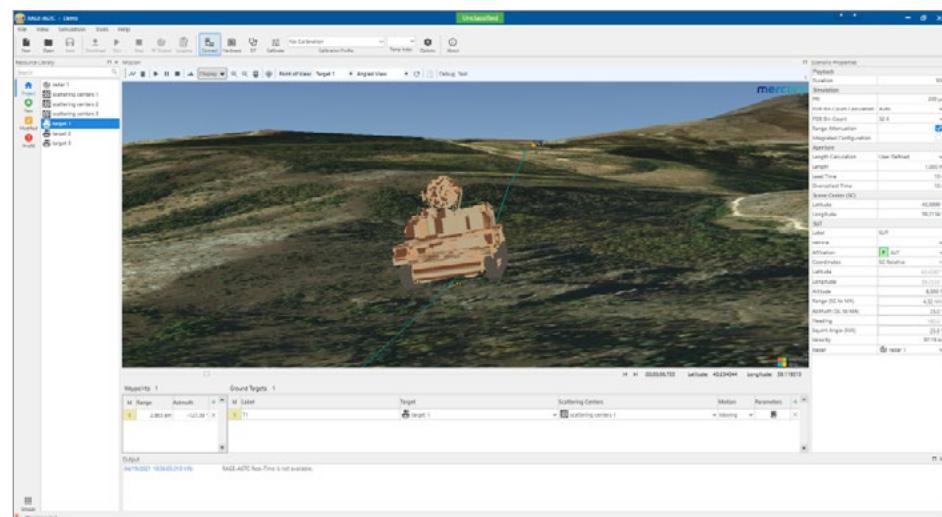
View Real-Time Simulation

View simulation settings including terrain, dimensions, location, targets, aperture and other runtime parameters
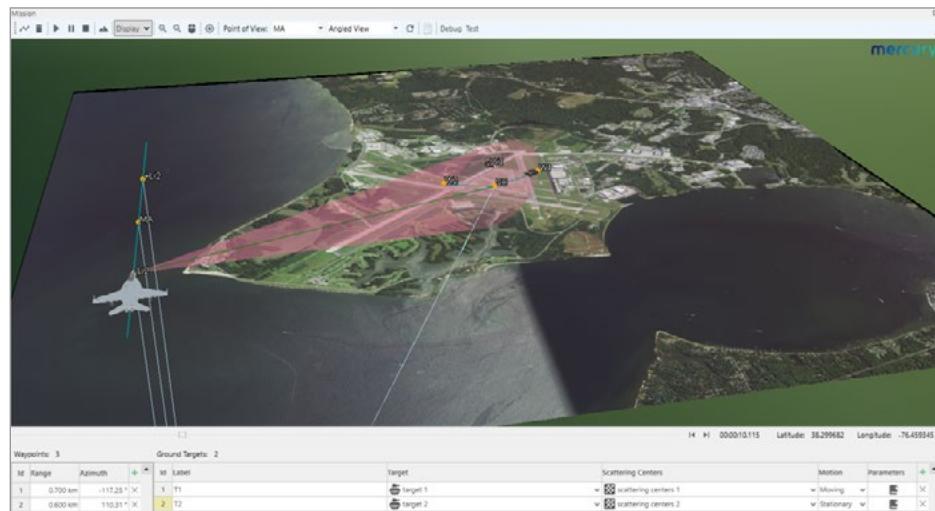
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