



Reconnaissance, Surveillance, and Target Acquisition Decision Support System (RSTA-DSS) supports intelligence gathering, force protection, and critical infrastructure protection missions involving platform selection and maneuver planning; sensor selection and placement; and data fusion. RSTA-DSS helps unit leaders to select and employ a variety of RSTA tools in an integrated way, using both their own tools and others provided to them, including:

- Unmanned Aerial Systems (UAS)
- Unattended Ground Sensors (UGS)
- Unattended Ground Vehicles (UGV)

RSTA-DSS integrates RSTA mission planning, sensor and platform modeling, inferencing, and advanced visualization into a single 2D/3D geospatial display. The user friendly interface allows RSTA mission planners to develop and integrate tactical mission information requirements with technical platform/sensor modeling to prepare for sensor emplacement. RSTA-DSS was developed under an SBIR Phase III contract with the Intelligent Systems Branch of the U.S. Army Armament Research Development and Engineering Command (ARDEC) under the guidance of the Asymmetric Warfare Group.



RSTA-DSS assists planners with RSTA course of action development by considering planning guidance. This includes the number/types of courses of action to develop; specific information requirements and priorities; platform/sensor availability and performance; and

constraints related to threat, terrain, weather, and control measures. The user may select from among recommended courses of action to develop a final plan or use RSTA-DSS decision support functionality to assist in developing a directed course of action. Outputs include an Intelligence, Surveillance, and Reconnaissance (ISR) task matrix, mission data transfer, and mission rehearsal using advanced visualization techniques.



## QuickFacts

Matthew Shaffer  
Corporate Development  
1421 Jefferson Davis Highway  
Suite 200  
Arlington, VA 22202  
703.413.3106  
matthew.shaffer@emsolve.com

- Top Secret Facility Clearance
- Headquartered in Arlington, VA
- Established in May 2000
- 90%+ of personnel Top Secret SSBI
- Primary NAICS Codes  
541330, 541511, 541512, 541513  
541690, 541611, 541712, 541990

- 31,000ft<sup>2</sup> of Office Space
- 18,000ft<sup>2</sup> of Top Secret Facility
- 100 Person Theater (TS & up)

### Locations

- Arlington, VA (HQ)
- Norfolk, VA
- Patuxent River, MD
- Dallas, TX