



SYSTEMS ENGINEERING SERVICES

At SOLUTE, we work with our clients to define their individual customer's needs and required functionality early in a system development cycle. Our Engineers, Operations Analysts, Knowledge Management Experts, Program Managers, and Process Improvement Analysts establish a unified team with our clients, forming a structured development process that evolves from concept through production to operation. The SOLUTE team develops a complete solution, one that includes consideration of system cost, schedule, integration, performance, interoperability, training, support, test, validation, documentation, and manufacturing. We are uniquely able to provide value-added C4ISR engineering support, wargames simulation, and modeling of battlefield communications.

SOLUTE consultants are well versed in the Rational Unified Process of Systems Engineering and effectively implement Object Oriented Analysis. We develop derived requirements employing Use Case Modeling software, and create architectural products in support of design efforts using Unified Modeling Language (UML) tools and the Department of Defense Architecture Framework (DoDAF). We analyze the people, processes, and technology of each challenge to create a customized powerful solution for each client.

SOLUTE's Systems Engineering services include:

- Research and Development support
- Requirements development, analysis, allocation, and management
- Engineering, System Engineering, and Process Engineering support
- Modeling, simulation, stimulation, and analysis support
- System Design Documentation and Technical Data support
- Information System Development, IA and IT support
- Applying operational perspective -- subject matter expertise
- Interoperability Analysis between US Navy platforms, Joint platforms, and Coalition platforms
- Afloat / shore networks and communications expertise to analyze and create C4ISR architecture views, including DoDAF
- Analysis of proposed instrumentation, navigation, and weapons systems
- Test and Evaluation, trials, and validation support
- Acquisition Logistics support
- Training support
- Administrative support

SOLUTE also provides the following avionics integration support:

- Tactical systems and functionality concept development, analysis, and program management for existing commercial cockpits
- Communications Navigation Surveillance and Air Traffic Management (CNS/ATM) compliant systems for existing military cockpits
- Airborne networking solutions for legacy DoD aircraft
- Compliant with FAA, RTCA, ICAO, EuroControl, and military navigation requirements