

Professional and Management Services



Service Solutions on GSA Schedule

SMALL COMPANY WITH BIG SOLUTIONS



Decisive Analytics Corporation (DAC), a 5-year old, employee-owned small business of highly motivated and experienced professional consultants specializing in analytical solutions to complex problems, is well-positioned to provide the Federal Government with a wide range of Management, Organizational and Business Improvement Services (MOBIS). Since its founding in 1996, DAC, headquartered in Arlington, Virginia, has focused on building a multi-disciplined staff, with cross-functional expertise in areas such as strategic planning, system engineering, information security, systems analysis, and acquisition and management support in order to provide customers with timely, affordable, and effective systems solutions.

Acutely aware of the present complexity and future uncertainty of Federal management, organizational, and business improvement initiatives, DAC President John Donnellon says that Federal Government agencies face “increasing external pressures to reduce cost, streamline bureaucracy, and re-evaluate their missions, visions, strategies, and programs in light of future resource constraints.” To help the government successfully meet these challenges, DAC offers a full spectrum of acquisition planning and management support services. One of the core competencies of the company, acquisition planning and management, involves the integration across specialized areas of functional expertise to help resolve fundamental conflicts in the processes and procedures necessary to efficiently acquire material and services. For this purpose, DAC is able to employ its expertise in various disciplines including cost estimating and analysis, program management performance measurement, system performance effectiveness, and acquisition policy development and implementation.

In the current government acquisition environment, meeting system performance objectives while also achieving aggressive cost targets is frequently a hard requirement rather than an abstract goal. In order to arrive at an optimum solution for this type of complex acquisition challenge, DAC integrates multiple analyses and functional disciplines to generate sound, supportable cost vs. performance trade-off results for its customers. As a key tool framing the choices available to government decisionmakers, trade studies that are soundly constructed and accurately analyzed early on can have a significant impact on the direction and ultimate success of an acquisition program. To support this key government acquisition function, DAC has developed a superior skill and experience base for analysis and modeling that provides a

leading-edge engineering based program analysis and evaluation capability for managing the allocation of limited resources. In addition, DAC’s acquisition planning and management support program leverages unique insights gained by significant experience in integrating ongoing sub-processes such as database development and maintenance, methodology and model development, cost estimating and analysis, program effectiveness analysis evaluations, and economic analyses. Products developed throughout this process are subject to quality assurance measures and validation efforts. Our approach emphasizes the integration of (1) the functional team performing the acquisition effort, (2) the methodologies, models, and tool set supporting the analysis, (3) the automated linkage of the analysis to generate products, and (4) the integration of these products with other key acquisition activities.

One of these other important acquisition activities involves the development of acquisition policies and regulations, which provide the planning framework for translating a Federal agency’s mission needs into a functioning acquisition program. Necessary for providing a “roadmap” to acquisition success, sound acquisition policies, regulations and associated reform initiatives must provide discipline - while also allowing some degree of flexibility and management autonomy - to be effective and executable in practice. Members of DAC’s staff have had extensive experience with their development, analysis, application and implementation. For instance, DAC is extensively involved with the development of innovative cost control policy measures and Cost As an Independent Variable (CAIV) implementation procedures for our government customers. This support provides our customers with a disciplined, yet flexible, acquisition management construct designed to facilitate effective cost control leading to stable, affordable acquisition programs.

Once an acquisition concept has matured into a full-fledged acquisition program, its success depends in large part on how efficiently the program is executed against the approved acquisition baseline plan. DAC’s expertise and experience span a broad spectrum of activities and issues related to this area of government acquisition program management, including the development and/or evaluation of appropriate analytical methods and metrics to assess program status, execution trends, and corrective actions. DAC’s analytical breadth supports program audits and evaluations, program risk assessments, life cycle cost estimates, quick-turnaround “what-if” analyses, and financial reporting analysis including earned value management.

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SMALL COMPANY WITH BIG SOLUTIONS (CONT'D.)

Beyond the requisite acquisition management functional expertise, DAC understands that providing full value to a Federal Government customer requires a corporate culture imbued with a sense of commitment and responsiveness to that customer. This commitment continues to pay dividends for both the company and our government customers, who have continually expressed a high degree of satisfaction with the quality of our products and responsiveness of our staff.

Order services directly from the contractor:

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GSA Contract Numbers: GS-23F-0382K (PES)
GS-25F-5333H (IT)
GS-10F-0192J (MOBIS)

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Federal Supply Schedule 871 Professional Engineering Services

BATTLESPACE, INC.

Battlespace, Inc., a center of excellence for unmanned aerial vehicle (UAVs), is a small business concentrating on high technology concepts in both defense and commercial sectors. With a broadly qualified core group of UAV pilots and payload operators, engineers, and operations analysts, we provide program management, systems engineering analysis, requirements definition, systems design, integration engineering, modeling and prototype development, test and evaluation, integrated logistic life-cycle engineering assessments and training program development to program offices throughout DOD. The company produces state-of-the-art interactive multimedia courseware and video products, and has offices in Arizona, California, and Virginia.



Battlespace offers the following services on GSA schedule:

871-1 STRATEGIC PLANNING FOR TECHNOLOGY PROGRAMS

- Analysis of mission, program goals and objectives
- Requirements analysis
- Special studies and analysis
- Training

871-2 CONCEPT DEVELOPMENT AND REQUIREMENTS ANALYSIS

- Requirements analysis
- Cost/cost-performance tradeoffs
- Feasibility analysis
- Conceptual designs
- Training

871-3 SYSTEM DESIGN, ENGINEERING AND INTEGRATION

- Design studies and analysis
- Configuration management
- Modeling and simulation
- Training

871-4 TEST AND EVALUATION

- Prototype testing
- Independent verification and validation
- Simulation and modeling
- Quality assurance
- Training

871-6 ACQUISITION AND LIFE CYCLE MANAGEMENT

- Operation and maintenance
- Program and project management
- Training

LABOR CATEGORIES AVAILABLE

Manager, Program Manager, Project Manager
Business Specialist/Manager
Senior Engineer/Analyst, Engineer Analyst, Technician
Administrative Specialist

Battlespace has provided support to the UAV Tactical Control System and to numerous program offices; is a prime contractor supporting the UAV Joint Operational Test Bed System; is a member of a government-industry team developing advanced active aperture communications antenna systems; has completed high-level studies and analyses; produces and delivers interactive courseware, digital video, websites and web management; has supported DOD exercises, and is experienced in systems operations of a variety of UAVs.

Order services directly from the contractor:

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Federal Supply Schedule 871 Professional Engineering Services

RELIABILITY, AVAILABILITY, MAINTAINABILITY, AND SAFETY ANALYSES SERVICES FOR CRITICAL SYSTEMS

Since 1978, SoHaR (an acronym of Software and Hardware Reliability) has been a leader in both traditional and new approaches to reliability and related disciplines. Since its establishment in 1978, the company has performed hundreds of projects for the Department of Defense, NASA, the Federal Aviation Administration, the Nuclear Regulatory Commission, the Department of Energy, and other Federal agencies and prime contractors.

The firm's unique capabilities are that they address both hardware and software reliability, maintainability, and safety issues. They have applied their expertise in systems ranging from navigation and landing systems for air traffic control to on-board processors on space vehicles. The systems on which they have worked include avionics, nuclear reactor safety systems, air traffic control, ground based control systems (personal transportation vehicles and amusement park rides), C3I and Battle Management.

SoHaR's services can support your projects throughout the system lifecycle and include:

- Establishing system requirements for reliability, safety, availability, and fault tolerance
- Writing the Reliability, Maintainability, and Availability (RMA) portions of the statements of work, information for prospective contractors, and technical evaluation
- System, software, and hardware safety analyses (PHAs and FHAs), FMEAs, FMECAs, and Fault Tree Analyses
- Reliability prediction including parts and system level; Markov modeling; discrete event simulation; and other advanced techniques
- Assisting in contractor oversight of RMA, Safety, and Logistics

- Independent Verification and Validation of Software and Systems
- Performance modeling and prediction

Examples of our current projects include:

Predicting availability for air traffic control systems in the presence of manpower and spares constraints: The U.S. National Airspace System is responsible for providing vital air traffic control services throughout U.S. controlled airspace. Over the past decade, the amount of systems and equipment for that the Federal Aviation Administration must maintain has doubled. Thus, the FAA has needed to become much more efficient in the way in which it allocates its resources for staffing, training, spares, and scheduling. SoHaR Inc., developed SMART, the System Maintenance Allocation Resource Tool, to help the FAA to make the right resource allocation decisions to keep its equipment at a high level of availability in the presence of budgetary constraints

Requirements for Safety Critical Systems: Software requirements activities are a major source of errors in system development. The vast majority of accidents in which software was involved could be traced to requirements flaws - that is, incomplete or wrong assumptions about how the system operated, and requirements errors can consume 25% to 40% of the project effort and budget. SoHaR Inc., is helping the Nuclear Regulatory Commission develop guidelines to evaluate requirements for safety systems in nuclear power plants. These guidelines will be used by the Nuclear Regulatory Commission staff, but can also be used by any developer of highly critical systems.

Sneak Circuit Analysis: Sneak Circuits are unintended current flows in electrical electronic systems. They can be caused by a variety of factors, but the net results can be hazardous. Failures in missiles, satellites, weapons systems, and aircraft have been attributed to sneak circuits, and in some cases, they have resulted in injury or death. As a result, Sneak Circuit Analysis is routinely performed on munitions,

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Professional Engineering Services

**RELIABILITY, AVAILABILITY, MAINTAINABILITY, AND SAFETY
ANALYSES SERVICES FOR CRITICAL SYSTEMS (CONT'D.)**

missiles, and other systems containing pyrotechnic devices. SoHaR Inc., is a leader in this area and received the Small Business Administration Region IX Prime Contractor of the Year award for this work. We have performed sneak circuit analysis for missiles (AMRAAM, Tomahawk, ITAS, IBAS), artillery fuzes, and large space boosters. Not only do we perform sneak circuit analyses for major weapons systems producers, we also sell our technology in conjunction with a major Computer Aided Engineering tools vendor.

Order services directly from the contractor:

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GSA Contract Number GS-23F-0106K

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N E W S F L A S H

DON'T MISS THESE EXCITING GREEN EVENTS & CONFERENCES!

May 22 – 24

GSA/FSS Expo 2001

Orlando, Florida

<http://expo.gsa.gov>

June 3 – 6

Energy 2001 Conference

Kansas City, Missouri

<http://www.energy2001.ee.doe.gov/>

August 20 – 23, 2001

DOD Worldwide Pollution

Prevention Conference

San Antonio, Texas

www.p2-hwmconference.com/

September 30 – October 3

National Recycling Conference

Seattle, Washington

www.nrc-recycle.org/programs/congress/expo.htm