

SOFTWARE SERVICES

Software Development

SSAI is an ISO 9001 certified company and has been providing a broad range of specialized software engineering solutions to the United States Air Force for over 20 years. We have experience developing solutions in the following areas:

- Real Time Embedded Systems including Operational Flight Programs (OFP) and micro-controller applications
- OFP Support Tools and Analytical Tools
- Web Based Applications
- On-Aircraft Situational Awareness
- Client Server Applications
- High Fidelity Training and Simulation
- Interactive Electronic Technical Manual (IETM)

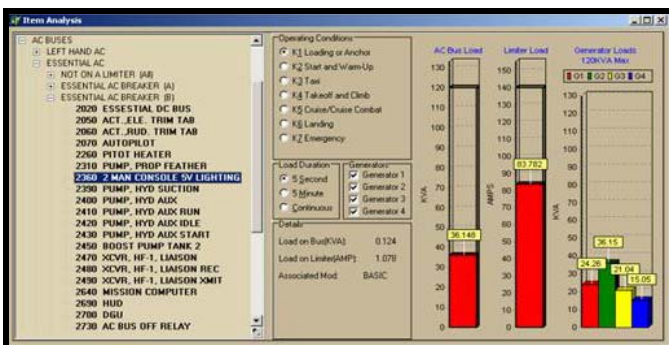
SSAI's software solutions are developed using established ISO 9001 processes, which are based on MIL-STD-498 and ISO-STD-12207. Emphasis is placed on quality assurance, configuration management, and testing throughout the software development process. SSAI has consistently demonstrated the ability to support its customers with on time deliveries and quality products at a competitive price.

SSAI has personnel on staff with expertise in the following languages and operating systems:

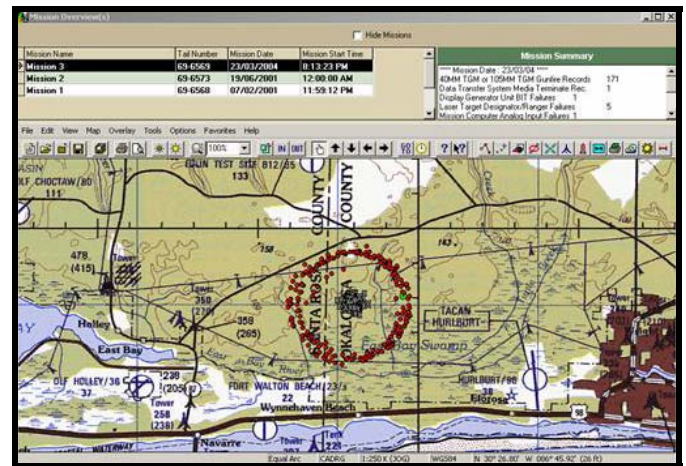
- C#, C++, C, Delphi/Pascal, Visual Basic
- HTML, XML, XSL, XSD, JavaScript, Perl, ASP, ASP.NET
- Jovial, MIL-STD-1750, Motorola, and Intel Assembly
- Windows, Windows Embedded, and Windows CE.

SSAI has been supporting SOF avionics OFPs and embedded applications for over 15 years. We specialize in navigation and weapons system algorithm development, and software design, coding, and test. We develop, reverse engineer, and upgrade embedded software for SOF avionics.

SSAI develops both OFP support tools and analytical tools. An Electrical Load Analysis Program includes automated MIL-E-7016 reporting, analysis, and data management. The graphical user interface was designed by engineers with 15+ yrs ELA experience. The Item Analysis screen shown below allows the effect of load changes to be quickly evaluated.



A Post Mission Analysis System decodes and presents flight data in a user-friendly format for mission debriefs.



SSAI develops software tools for many applications including ballistics testing, MIL-STD-1553B data reduction and analysis, weight & balance checks, and mission tactics evaluation.

SSAI develops cost effective part task trainers, such as the one shown below, which reduces on aircraft training requirements



Finally, SSAI develops flight based software applications to increase aircrew situational awareness. The Digital Mapping Interface System (DMIS) provides aircraft and sensor sightline position information via symbology overlaid on a digital moving map. Also included are slant range and DTED based target elevation.

SUPPORT SYSTEMS ASSOCIATES, INC.

