



# Mission Critical Command and Control

## Lives Depend on SRA

### FEATURES

- *Autonomous / Web-centric command and control system*
- *Full-featured scripting language*
- *Data fusion platform*
- *Embedded real-time sensor control and processing*
- *Artificial intelligence*
- *Workload augmentation and advisory systems*
- *Maritime domain awareness*

Commercial off-the-shelf (COTS) products have been used for many military applications, including communications, operating procedures and embedded systems. Despite product availability, critical military requirements demand high levels of software assurance that not all commercial vendors are able to deliver.

SRA has been providing reusable products for mission-critical command and control systems for more than 20 years. As a core offering within SRA's One Platform™ solution suite, our award-winning Systems Control Language (SCL) has roots in artificial intelligence and delivers real-time processing and automation solutions. It provides an infrastructure to aid in decision support for command and control based on time-sequenced commanding or event-driven responses to real-time data, greatly reducing operations workload and automating routine tasks.



### IMPROVING SAFETY FOR THE WARFIGHTER

The safety of our warfighters and space explorers is always at the forefront of all we do. SRA's command and control system brings a mature, stable and extensible software architecture that make it versatile to ensure success in a variety of C4I (command, control, communications, computers and intelligence) workstations or embedded systems. It has become a trusted tool for many NASA and Operationally Responsive Space (ORS) missions, along with its capability for providing vital military intelligence to warfighters.



**With more than 10 years of on-orbit experience as a COTS flight software product, SCL has received man-rating certification from NASA – the highest level of quality for spaceflights. When lives depend on it, SRA clients rest assured that our product delivers the highest-quality features for health and safety.**

There is an increasing demand for off-the-shelf solutions that provide a multi-mission approach to autonomous vehicle command and control, and a standard operational interface that can be applied to multiple weapons systems that allows a common approach to ground operations. Fault detection, command formatting, diagnostic reasoning and real-time decision and logistics support are all within the purview of the SCL product suite.

The One Platform SCL suite of technologies provides expanded commanding capability and rule-based expert systems for operational procedures and embedded weapons systems. This allows reactive control aboard the vehicle for functions such as electrical power systems and thermal control, which would traditionally have been in the command of the operations center.

## WEB-CENTRIC MONITORING: REAL-TIME INFORMATION MANAGEMENT SYSTEMS

With the need to rapidly field systems with minimal deployment and maintenance costs, SRA One Platform also has a real-time information management system (RIMS) that is able to work seamlessly with SCL for both C4I applications and in a variety of marketplaces with minimal infrastructure. SCL servers – with their thin-client architecture – can be rapidly deployed with only a Web browser on a desktop, laptop, mobile phone or personal digital assistant (PDA). This speeds implementation and provides faster delivery of RIMS worldwide. Given the use of standardized systems and the familiarity of Web-based interfaces, staff training is minimal and cost-effective.

## SRA ONE PLATFORM ADVANTAGE

With more than two decades of mission critical command and control experience and the highest testament of quality from NASA, you can rely on SRA's expertise and products in the development, fielding and maintenance of mission critical systems and infrastructure.

SRA One Platform offers the only command and control technology in the marketplace that is entirely seamless – a single system that takes your mission from control center to operational units without the loss of knowledge or intelligence that can result from disparate systems. Plus, a single system means reduced implementation and training costs and accelerated time-to-market for new capabilities.

Using the latest innovative technology, SCL delivers data to low-cost platforms, like PDAs and smart phones. Portability means warfighters are able to access real-time data wherever and whenever they need it. Designed for flexibility and scalability, SCL and RIMS can be customized to meet the unique requirements of your mission.

## DATA FUSION PLATFORM

As a data fusion platform, SCL is able to process more than 250,000 measurands from disparate data sources, correlate that information and present high level feedback to analysts and operators. Fusing multiple data sources into a single mission objective supports the warfighter and intelligence analyst in the timely planning and execution of successful missions.

## A SOLID TRACK RECORD FOR SUCCESS AND QUALITY

Providing automation capabilities in the most rugged environments, SCL has been proven repeatedly from as far back as 1994 when it was used on the Naval Center for Space Technology 'Clementine' satellite program.

As recently as December 2008, SCL was selected by NASA for the Orion crew exploration vehicle on-board automation system, as well as the modernization of the Kennedy Space Center's launch control countdown sequencing and monitoring system.

## FOR MORE INFORMATION

To learn more about SRA's services and our capabilities please contact us at 703.653.5360 or [info@sra.com](mailto:info@sra.com).

### About SRA International, Inc.

SRA and its subsidiaries are dedicated to solving complex problems of global significance for government organizations serving the national security, civil government and global health markets. Founded in 1978, the company and its subsidiaries have expertise in such areas as air surveillance and air traffic management; contract research organization (CRO) services; cybersecurity; disaster response planning; enterprise resource planning; environmental strategies; IT systems, infrastructure and managed services; logistics; public health preparedness; strategic management consulting; systems engineering; and wireless integration.

FORTUNE® magazine has chosen SRA as one of the "100 Best Companies to Work For" for ten consecutive years. The company and its subsidiaries employ more than 6,600 employees serving clients from headquarters in Fairfax, Va., and offices around the world. For additional information on SRA, please visit [www.sra.com](http://www.sra.com).

