



Software Engineering

Overview

URS Corporation is a fully integrated engineering, construction and technical services organization with the capabilities to support every stage of the project life cycle—from inception through start-up and operation to decommissioning and closure. We offer program management; planning, design and engineering; systems engineering and technical assistance; construction and construction management; operations and maintenance; and decommissioning and closure services.

Combining forces with URS, Apptis now offers an expanded range of services. With deep experience in federal government driving the latest innovative technology advancements such as Cloud Computing, URS-Apptis is a fully integrated engineering and technical services organization delivering IT and communication services to federal agencies and all branches of the military.

Core Capabilities

- Secure Cloud Computing
- Integrated Cyber Solutions
- Software Engineering
- Systems Engineering
- Enterprise Management
- Network Engineering
- Program Management

Our certified and accomplished professionals deliver information technology and infrastructure results.

Our Software Engineering teams employ mature, proven methodologies and principles to develop solutions for the mission critical programs of our federal customers.

We combine capabilities across the full life cycle of software development with deep knowledge of our client's challenges and information technology environments in delivering comprehensive applications for complex multiuser, multi-platform, and security-driven systems. We bring experience in industry-leading solutions—including Microsoft, Oracle, IBM Rational, Mercury Interactive, .NET, Java, C++, C#, VB, and various Web technologies—as well as specialized expertise in identity management solutions, high availability/scalability solutions, and large scale image management systems.

The URS-Apptis approach to the software development process uses iterative, staged delivery and incorporates SEI CMMI Maturity Level 3 processes, which enable us to incrementally design, test, evaluate, and maintain our solutions. For our clients' large initiatives with tight timeframes, this process allows us to deliver a stable solution into production while progressively adding functionality. Our solutions are delivered with minimized risk, on time, within budget, and with proven measurable results.

Software Engineering Capabilities

- Client Server/Web Development
- Custom Software Design & Development
- Full Life Cycle Software Testing
- Database Development
- Load & Stress Testing
- Performance Optimization & Tuning
- Software System Sustainment
- Secure Cloud Computing
- Service Oriented Architecture

Certifications

- CMMI ML2–ML3 appraised for key business units
- Microsoft Certified Database Administrator (MCDBA)
- Microsoft Certified Solutions Developer (MCSD)
- Microsoft Certified Systems Engineer (MCSE)

Representative Clients

- Defense Information Systems Agency
- Department of State
- Department of Homeland Security
- Aviation Administration
- Federal Emergency Management Agency
- Transportation Security Administration

Proof of Performance

Department of State, Bureau of Diplomatic Security, Security Information Management System (SIMS)

SIMS is a high priority initiative and is the primary software application that will automate the personnel security clearance process from end-to-end for the Department of State (DoS) Bureau of Diplomatic Security (DS), Security Infrastructure (SI), Office of Personnel Security and Suitability (PSS). DS/SI/PSS is at the forefront of efforts to streamline, standardize, and transform the manner in which clearances are investigated, adjudicated, and managed.

URS-Apttis will develop a comprehensive and innovative Web-based system which will support functions and activities associated with the personnel security clearance process, replacing the current, more manual-oriented clearance processing and background investigation legacy systems. SIMS will support the entire spectrum of clearance processing from initial on-boarding through adjudication. SIMS will provide vital support to over 800 field investigators located both within the United States and around the world, operating in over 270 posts abroad.

Transportation Security Administration (TSA)

URS-Apttis helped establish the TSA's IT Security Program, enhancing the agency's cyber situational awareness. TSA hired URS-Apttis IT security professionals to provide Security Management and Risk Management expertise including certification and accreditation (C&A) documentation and testing, resulting in:

- The first DHS "A" in FISMA C&A compliance
- FISMA compliance management resulting in an unprecedented 100% FISMA score
- Integrated security architecture, policy, Independent Verification and Validation (IV&V), audit, and engineering

- A new technology product evaluation lab
- A NIST compliant security awareness, training, and education program.

URS-Apttis provided the Information Security Systems Officer (ISSO) on more than 50% of TSA's operational systems including the majority of the infrastructure and high-profile systems. URS-Apttis helped TSA implement NIST's Risk Management Framework (RMF) and followed NIST guidance to implement PKI, Web services, incident management, privacy, security training, and automation.

Department of State, Bureau of Consular Affairs, Passport Support Services

URS-Apttis has been working with the Department of State (DoS) for over 27 years, automating the DoS Passport Systems and developing electronic, imaging and biometric solutions for this critical system. The Passport Systems must be operational 24/7 and available in embassies and consulates nationwide and worldwide for passport applications, identity verification, emergency issuance and replacement, and large volume document and data management and reporting.

As part of our work, URS-Apttis supports of the Travel Document Issuance System (TDIS). TDIS is the primary case management system used by DoS for passport application workflow processes at 17 production facilities and thousands of acceptance facilities, embassies, and other related facilities around the world. It is one of the largest end-to-end adjudication and credentialing systems in production today, producing more than 13 million passports each year. The Passport Systems provide scalable and secure storage and real time retrieval capabilities for more than 125 million passport records, 80 million photographs, and seven million uploads of new documents from various government agencies per year. The data store for passport systems comprises 87TB of data. URS-Apttis provides 24/7 operational support for the Passport Systems.



Web-based System



Operations Center



Data Storage



Software Management