Software Quality Assurance

ASSESS

DEPLOY

DESIGN

MONITOR

INFORMATION SECURITY LIFECYCLE

Full Life Cycle Testing
Independent Verification & Validation (IV&V)
Security Test & Evaluation (ST&E)

QSSI
...next level thinking, next level doing.™

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An Objective View of Overall Product Quality with Complete Traceability

- Mitigating Risk
- Increasing Control
- Reducing Cost

People and businesses rely on automated systems to deliver information quickly and accurately through the digital processing of complex tasks. As business requirements become increasingly intricate, systems begin to intersect and overlap themselves, increasing the systems’ complexity through the introduction of new factors and information. Now more than ever, we are moving towards an era of interconnectivity. By granting separate systems permission to shares utilities and information, we will be able to develop business intelligence and make connections that were previously unattainable. This level of computing is only sustainable through commitment to Software Quality Assurance (SQA). Organizations rely on developers to monitor and scrutinize the software engineering processes and methods used throughout the Software Development Life Cycle (SDLC) to develop their systems and assist them in the day-to-day operation of their business.

QSSI’s dedication to process improvement and standardized methods has directly impacted our ability to craft SQA solutions for our clients. As a CMMI® Level 3 organization, our standards and methodologies are well-defined and have been established over the course of our dynamic history. These standards and processes, coupled with the subject matter expertise gained through our provision of software development services to our clients, have cultivated an in-house SQA Practice Center that is comprised of best practices, expertise, techniques, supporting tools, and proven processes. Our ability to implement our SQA expertise into the SDLC assures that our clients’ needs are met and they can rely on the software we’ve worked with them to develop.

Full Life Cycle Testing

The goal of any system and its software is to deliver a solution to a targeted user group. In today’s competitive marketplace, it is essential that organizations are able to balance their ability to develop quality software and release that software in a timely fashion. Full Life Cycle Testing (FLC) is vital to those organizations that refuse to compromise on the quality of their product, yet remain driven to implement their solutions quickly.

QSSI Life Cycle Testing solutions expertly identify the necessary test activities essential to the success of the software and when the best time is for those activities to be executed. Our SQA Practice Center is the repository for our best practices and testing solutions that can be quickly tailored to meet the testing needs of our clients. Our deep understanding of the time-sensitive nature of testing inspired us to create a comprehensive testing approach that ensures requirements are explicitly defined and logically consistent throughout the Software Testing Life Cycle (STLC), and that the design code meets the established requirements.

Independent Verification & Validation (IV&V)

In-depth requirement gathering is essential to any organization that aims to provide their client base with a service or product that is in demand. Once those requirements have been stipulated, the organization must ensure whatever they’re delivering to their client meets the predetermined specifications and fulfills its intended purpose. It has become essential to IT
organizations, in particular, to engage impartial third parties to confirm that they are, indeed, building the right thing and constructing it correctly.

QSSI's Independent Verification & Validation (IV&V) solutions were created in parallel with our CMMI® Level 3 systems engineering and process improvement models to give our clients an unbiased approach in the assessment of their products and processes. By engaging QSSI as a strategic partner and implementing our IV&V solution, our clients are able to maintain profitability by catching and resolving development issues before release.

Security Test & Evaluation (ST&E)

Decision makers within organizations know that information is as valuable to a business as any other tangible asset. It is imperative that organizations build security into their development process to ensure the safekeeping of their information. Through the implementation of in-depth Security Testing & Evaluation (ST&E) processes, organizations can rest assured that their information has been safeguarded without compromising user accessibility and usability.

QSSI's ST&E solutions provide a suite of accessibility and usability verification best practices. Our testing solutions are defined by their ability to implement necessary security measures to our clients’ systems while retaining quality and functionality. The ST&E best practices developed by our testing teams and housed within our SQA Practice Center instill in our clients the confidence that the information within their systems is secure. These solutions do the following: ensure our clients’ information is disclosed only to its intended parties, allow the recipient to determine the validity of the information, confirm the identity of the recipient and the information, authorize that the individual is allowed to receive the information, and ensure that the information is made available upon request.

QSSI Highlighted Experience

Full Life Cycle & Independent Testing

QSSI is supporting a large federal agency as they migrate systems toward the use of Service-Oriented Architecture (SOA). QSSI provides full life cycle testing of the systems associated with organizations tied to the program including Smoke Testing, System Integration Testing, Performance Testing, Regression Testing, Usability Testing, End-to-End Testing, and User Acceptance Testing.

QSSI is the only contractor responsible for testing activities on the largest testing contract granted by our federal client. Our testing team is solely responsible for a portfolio of five key processing systems for the agency.

QSSI is also the independent testing arm for a national repository responsible for the collection of information on all eligible stakeholders. This repository processes and delivers incentive payments to stakeholders while preventing duplicate payments. Services rendered include Functional System Testing, End-to-End Testing, Systems Integration Testing, Performance and Stress Testing, Regression Testing, Smoke Testing, and User Acceptance Testing.
QSSI Expertise

Cloud Application Engineering
Security & Privacy Services
Software Engineering
Data Management
Software Quality Assurance
Managed Business Services