



Test Automation

A CSC CENTER OF EXCELLENCE

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CSC's Centers of Excellence enable exploration and testing of state-of-the-art solutions with minimum up-front investment and maximum innovation and results. Each Center has designated staff who work from a dedicated facility equipped with a laboratory for demonstrating and delivering client solutions and evaluating and testing products, methodologies and concepts.

Testing is a crucial step in the development of information systems. The Test Automation Center of Excellence is chartered as a matrix organization to provide staffing, centralized automated testing solutions, and a knowledge base for use across corporate programs and projects. The goal: to improve test quality and streamline the timelines associated with testing in the system development life cycle.

The Center's expertise includes test planning, test preparation, test automation, test execution, test status accounting and reporting, requirements analysis and defect management. Center staff specialize in using Mercury Interactive's Quality Center and Performance Center enterprise software to provide consulting services and support for CSC's clients and lines of business; conducting performance testing and test script automation using Mercury's QuickTest Professional, WinRunner, XRunner and LoadRunner products; and showcasing CSC's test automation capabilities for current and potential clients. Center staff also specialize in assisting projects in gaining visibility, control and overall operational efficiency using Mercury's IT Governance software.

Center personnel help CSC and client organizations minimize the recurring costs of instantiating and running multiple automated testing solutions for individual programs and projects across the enterprise. Organizations can implement centralized solutions that are customized according to corporate or programmatic standards and guidelines, leveraging CSC's global alliance with Mercury.

Test automation tools promise significant benefits to those organizations that can effectively use them. To this end, organizations can leverage the expertise of the Center, which positions CSC as a world-class test automation systems integrator.

Capabilities

- Requirements analysis, test planning, test development, test execution and test reporting
- Independent verification and validation (IV&V)
- Test management and staffing
- Standardized test automation approach, architecture, evaluation (including return on investment) and implementation
- Systems and software integration; functional, regression, certification and accreditation, performance and acceptance testing
- Test automation marketing and proposal support
- Test program audits



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Resources

The Center is staffed with experienced, tools-specific test engineers and developers. The Center leverages CSC's alliance with Mercury Interactive and is strategically involved with the development and deployment of Mercury's products.

Center staff carry certification from the International Information Systems Examinations Board, Foundation Certification in Software Testing. The Center has a proven track record for providing technical leadership and customer satisfaction. Its staff has received the NASA Space Flight Awareness Award and was nominated for the 2003 NASA Programs Business Area Excellence Award in Process Improvement.

Center staff have been involved with test automation activities on several contracts for over 13 years. Staff have presented at Mercury User Group conferences, the Software Testing Forum for the National Capitol Area, and CSC's Technology and Business Solutions conference.

The Test Automation Center of Excellence has established an Enforcement, Security and Intelligence (ESI) Test Automation lab. This lab supports performance and test automation for CSC's next-generation enterprise portal. It is also available to support CSC corporate projects. The lab includes research and development and proof-of-concept work for test automation efforts, providing CSC staff hands-on access to test automation tools along with centralized knowledge to support these activities.