



**Ensure Speed-to-Market,
Innovation, and Superior
Quality with Test Automation**

Every time code is changed in a software program, testing is required to check for defects. However, the majority of organizations feel that even after investing considerable resources in test execution, the quality of the application is not up to par and the test execution phase itself is substandard as there are many variables that need to be considered and checked.

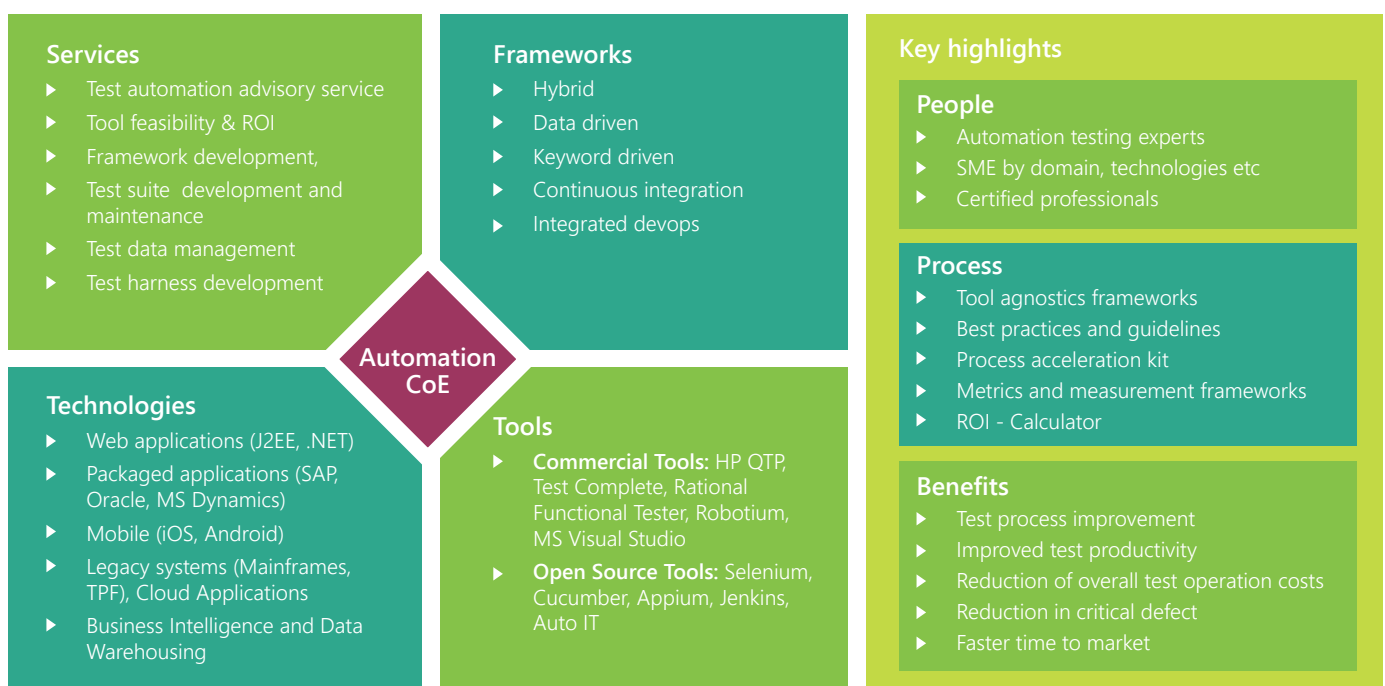
Test automation is the right step towards solving these issues and eliminating the manual testing that poses less than satisfactory results. However, test automation still comes with some challenges including:

- ▶ Poor quality of existing automation scripts causing failures and additional overhead
- ▶ Inability to define automation scope accurately, leading to creation of automation packs with minimal ROI
- ▶ Failure to incorporate automation early in the test lifecycle leading to minimum realization of automation benefits
- ▶ Generic automation concerning a domain specific automation solution as many third party quality assurance partners do not factor in domain

- ▶ Selection of inappropriate automation tools leading to underutilization of the selected tool
- ▶ High maintenance cost due to pre-requisites, application changes, and change in test data

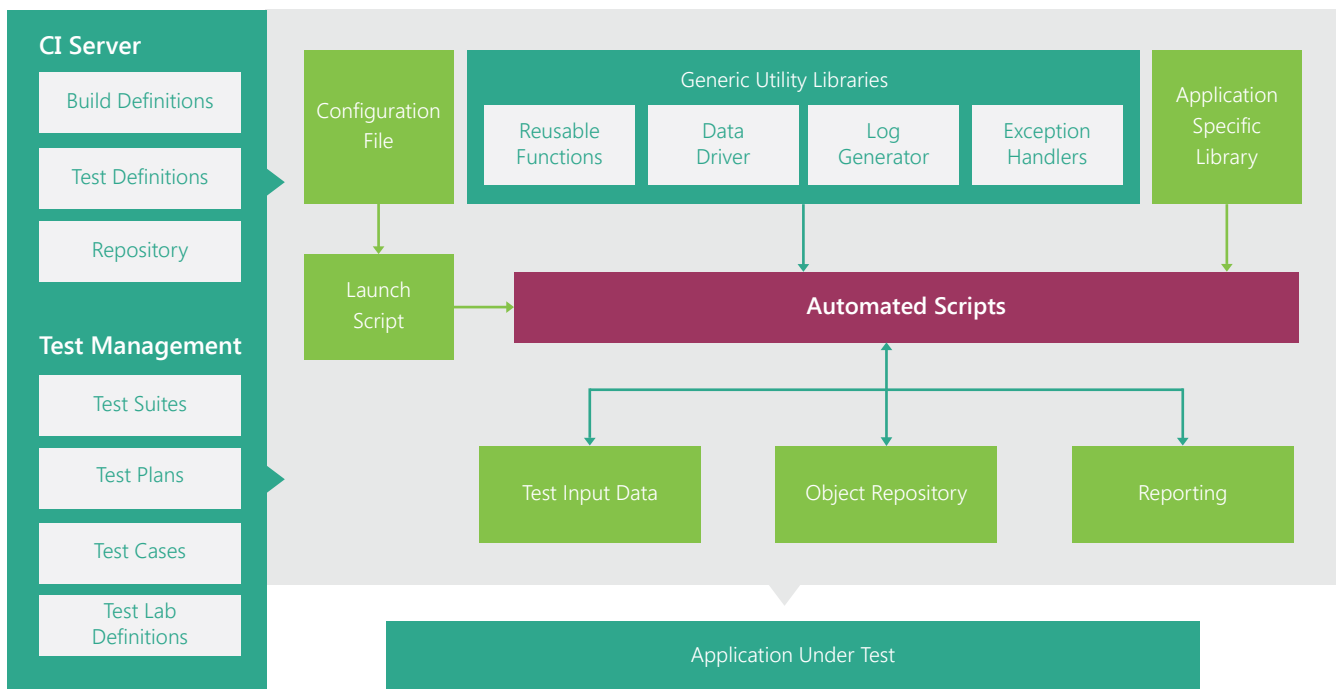
Microexcel helps customers reduce test cycle times and accelerate their time-to-market by leveraging our proven methodologies, automation best practices, tools and frameworks, metrics and measurements and procedures. With our automation services, we ensure the availability of best-in-class software to accomplish your regression cycles on time. Customers benefit from more test cycles, faster turnaround times and enhanced test coverage, lower total cost of ownership (TCO) of tool licenses and highly skilled teams that can be flexibly ramped up and down based on QA needs.

Test Automation Center of Excellence (CoE)



Robust Tool Agnostic Test Automation Framework

Microexcel Test Automation Framework (MTAF) is a proven, proprietary, tool agnostic, and platform independent testing solution for automating complex business processes with support for industry design patterns such as Keyword, Data, and Hybrid to enable non-technical users to validate business processes in an automated manner. This plug-and-play test automation framework with pre-built interfaces to CI servers, application lifecycle management tools and defect management tools fully support the majority of test automation tools adopted by organizations



Key Features and Benefits of Microexcel Test Automation Framework (MTAF)

- ▶ Centralized, easy to configure settings for the scripts to run across the environments
- ▶ Compatibility with leading ERPs, packaged solutions, and web, mobile, and thick-client applications
- ▶ Continuous integration testing with leading CI server tools and multiple test data sources
- ▶ Test execution on multiple devices, browsers and OS
- ▶ Auto updation of test execution status to test management tool such as JIRA + Zephyr
- ▶ Dashboards with in-depth visibility into project status, test execution results and analysis reports
- ▶ Object map files for web element references and single point maintenance
- ▶ Generic reusable libraries to accelerate automation effort

- ▶ Customized test execution reports generated in CSS/HTML formats
- ▶ External flat files for ease of test data management
- ▶ Enables clients to run comprehensive regression tests for major and minor releases improving overall quality of applications

MTAF Delivers Greater Benefits

- ▶ Tool agnostic script generation reduces script porting cost as much as 90%
- ▶ Reduces automation test suite maintenance cost to a maximum of 60%
- ▶ Reduce test cycle time by over 50%
- ▶ Reduce overall regression test execution efforts by over 80%
- ▶ 3x productivity improvement of test script creation

Partner with Microexcel for All Your Test Automation Needs

- ▶ Expertise in leading and implementing Agile and DevOps transformations
- ▶ Ready to use tool agnostic automation framework
- ▶ Test accelerators with reusable assets enabling quick ROI
- ▶ Experience in designing and implementing test automation frameworks (modular, data-driven, keyword-driven, hybrid, and descriptive).
- ▶ Use intuitive, behavior-driven, visual development scripting to facilitate greater collaboration between QA team members
- ▶ Leverage leading open source tools such as Appium, Jenkins and Selenium
- ▶ Platform agnostic frameworks are CI ready to integrate with continuous build environments and reduce test cycle time
- ▶ Reusable "Automation Kit" for jump starting automation efforts with reduced costs up to 30%
- ▶ Tool ROI calculator that analyzes test automation efforts and provides break-even analysis on effort / cost for manual vs. automation

To learn more about how you can benefit from our IT expertise and professional services, please contact us at info@microexcel.com



Microexcel Inc., is a global leader in providing innovative and comprehensive software solutions and services. Founded in 2001, Microexcel merges people and technology to deliver the most value and return on investment for customers. With headquarters in Secaucus, NJ, and offices worldwide, Microexcel provides full services and support to clients in the areas of Microsoft, SAP, Quality Assurance and Testing, Informatica, IT Infrastructure, Staffing, and Interactive Services. Microexcel is also a New York and New Jersey state Certified Minority Owned Business Enterprise.

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