INFOSYS TEST AUTOMATION ACCELERATOR

Today the need to go live in the shortest possible time frame while conserving budgets makes test automation a critical part of the testing cycle. To help figure out how effective your test automation processes are, here are some vital questions:

- Is your testing cycle disrupted by unpredictable application development schedules?

- Are your business users unable to participate actively in test automation due to the technical nature of the process?

- Are your investments in automated testing falling short of the anticipated returns?

- Are the operational costs of automation and the maintenance of automated test scripts cause for persistent concern?
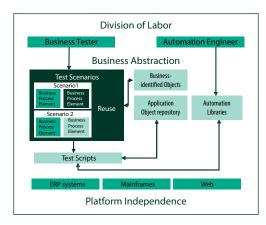
A 'yes' to one or more of the above questions points to the need for streamlining your test automation process and improving its efficacy. Infosys' Test Automation Accelerator helps you achieve this while enhancing the benefits of test automation.

Infosys Test Automation Accelerator is a add- on software that improves the performance of your automated functional testing tools. An easy-to-operate web-based application, it empowers non-technical business users to create automated test processes and cases without any scripting knowledge. The underlying robust framework generates automated test scripts which can run on any industry standard tool.

The solution enables

- Beginning the testing cycle while the application is being developed, thus reducing the time required for post development testing

- Business users to carry out test scripting, thus ensuring that test processes mirror business processes

- Leveraging a pre-built framework, thus reducing initial investment and advancing the realization of returns

- Maintaining automated test scripts easily through centralized change management and better change tractability

- Reuse of test cases, business processes and application objects, thus saving the time, money and effort needed for testing

A logical architecture of the Infosys Test Automation Accelerator solution is given below:

The Infosys Test Automation Accelerator solution has been built on the fundamentals of:

Division of Labor

- The business tester defines test scripts employing user defined logical names

- The automation experts' role is limited to framework definition and customization

Business Abstraction

- Minimizes dependency on application

- Business testers define test scenarios based on the business entities that have been characterized in user-defined terms

Reuse

- The automation framework is split into reusable entities at various levels

- The central repository of framework components is leveraged across scenarios

Platform Independence

- The framework supports single-scenario spans across application technologies, e.g., Web, mainframe, ERP systems, etc.

- The solution can run on any industry standard automation tools

Cost Savings with Infosys Solution - Illustrative

Task	Traditional Test Automation	Automation with Infosys Solution	% Savings
Framework Design	240	80	67%
Developing Automation Scripts	260	220	15%
Maintenance Efforts	20	15	25%
Total Effort	520	315	39%

No of releases for investment payback	4.7*
Return of investment (per testing cycle)	27%
% effort invested in framework	25%

* Estimation is in person-days and is based on our experience from various automation projects.

Benefits Accruing to Customers

- Save time by starting the cycle early. Business testers and automation experts can work in parallel to expedite the automation process

- Highly user-friendly graphical user interface (GUI) for non-technical experts

- Break-even point of investment can be achieved in 5 test cycles

- 30-40% reduction in overall automation effort

- Less code to develop and maintain

- Provides high flexibility in maintaining scripts when applications undergo changes over multiple releases

- Generates documentation of automation scripts that comply with the Sarbanes-Oxley (SOX) Act and the Health Insurance Portability and Accountability Act (HIPAA)

Success Stories

- Infosys successfully implemented Infosys Test Automation Accelerator for a financial services major, cutting the test effort by 40% and enabling it to meet a critical application release deadline

- Infosys has partnered with a leading cosmetics manufacturer to test its SAP rollout across different process areas with Infosys Test Automation Accelerator. This will enable the manufacturer to reduce the manual testing effort by as much as 70%

Allied services

Technology Consulting

We work with you to develop implementable architecture solutions that help you leverage technology to enable business strategy. Our solution helps you achieve a balance between IT Effectiveness and business innovation.

Independent Validation

Gives your applications the third degree treatment and tests their robustness and ability to survive your business growth. A "must have" service if you are serious about long term leverage of your application assets.

Process Consulting

Strong quality processes are the key to delivering reliable, usable software within scope & budget commitments. Infosys can help you put in place robust processes to increase productivity, shrink cycle time and enhance customer satisfaction.

SOA Services

Our SOA Services will help you achieve better Business-IT alignment with clearly defined accountability. They help you build on existing IT investments to achieve process standardization & improve process efficiency.

For more information, contact askus@infosys.com

Infosys®
Navigate your next

Infosys.com | NYSE: INFY

Stay Connected   SlideShare