



DELIVERING AGILE QUALITY ASSURANCE THROUGH EXTREME AUTOMATION



Infosys
be more

Enterprises that keep pace with rapid technology advancements are witnessing dynamic changes in their business environments. Enterprise applications need to be leaner and easier-to-use with shorter release cycles and faster time-to-market. In such a scenario, quality assurance (QA) services struggle to meet the complex demands of application

development and maintenance as well as release management. Achieving this mandates automation through continuous application integration and delivery – a challenge for most enterprises.

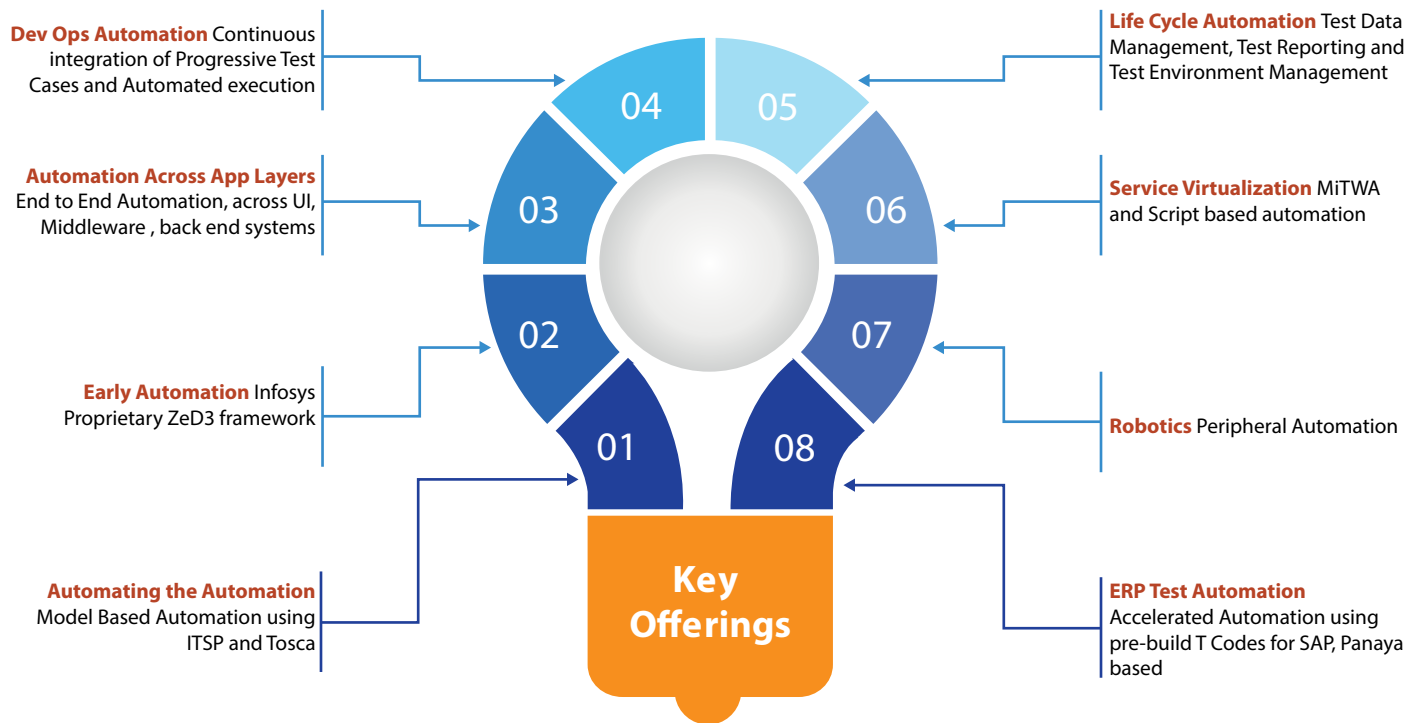
Driving true value from QA automation solutions requires extreme automation. Such solutions should be adopted early and be in-depth, i.e., implemented across

application lifecycles and architecture layers. It should be skill-agnostic and enable agile development with automated build and deployment processes. With the added pressure to reduce information technology (IT) costs, enterprises are seeking automation solutions that are cost and resource efficient.

Infosys Service Offerings

To deliver comprehensive and automated testing capabilities that meet the diverse needs of enterprises, Infosys provides the following offerings for QA automation:

Extreme Automation – Key Offerings



Our focus shifts from pure play testing to complete quality focus that comprehensively delivers agility, availability and automation of ecosystems

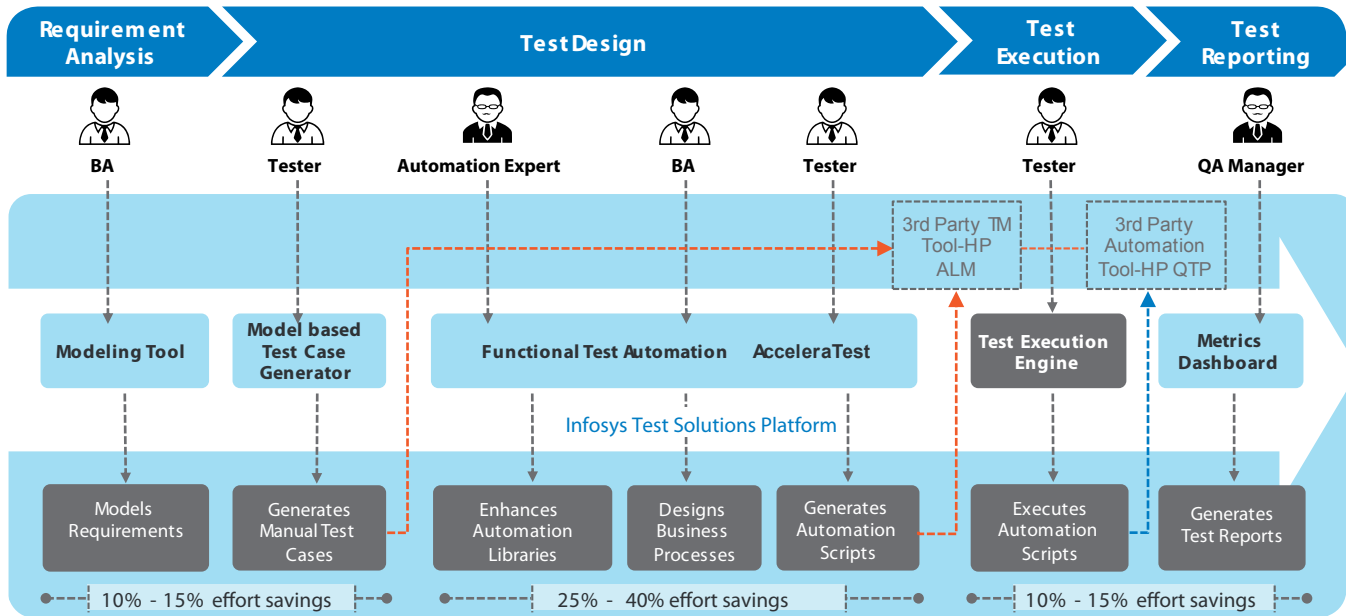


1 Automating the automation: Infosys leverages its proprietary comprehensive and integrated web based work-bench, **Infosys Test Solutions Platform (ITSP)**, to automatically generate model-based

test cases with input as requirement models, thereby reducing the cost of automation while making the test suite more maintainable. The platform can be integrated with leading third party tools, proprietary

tools such as Unified Functional Testing (UFT) and open source tools such as Selenium. Infosys also has alliances and in-house test studios set up with leading model-based tool vendors such as Tricentis to address this.

Infosys leverages its proprietary Infosys Test Solutions Platform (ITSP) which does model-based testing, based on functional models

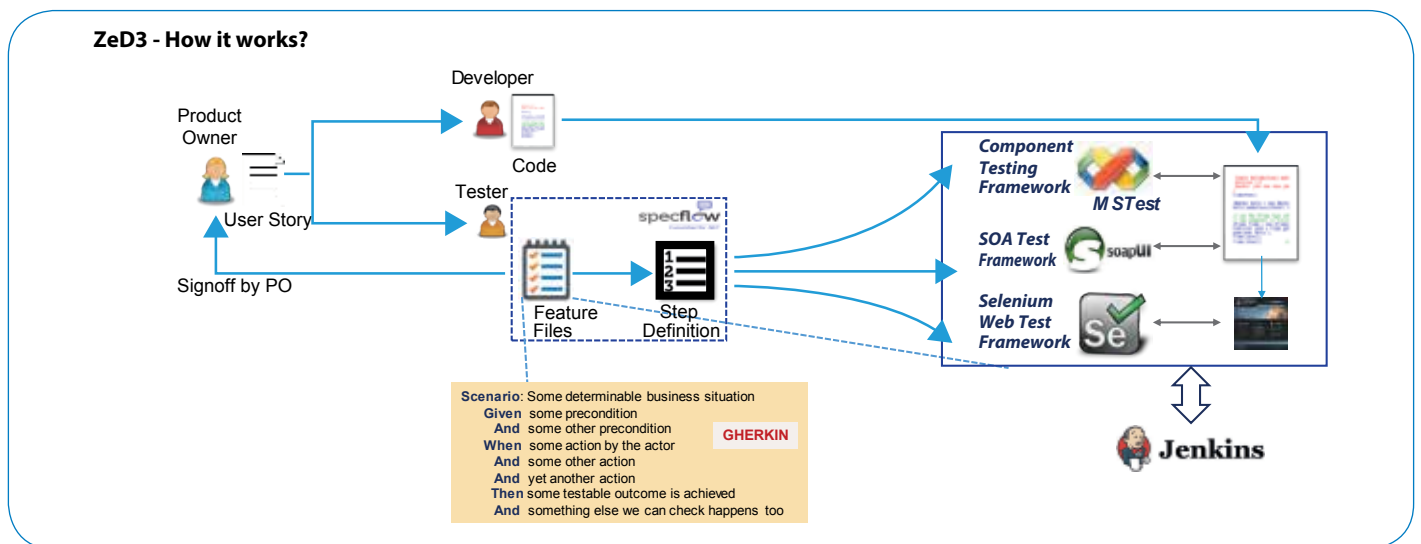


On-premise Test Labs with Leading Model Based Testing tool providers like Tricentis(Tosca) , backed by platinum partnership

2 Early automation: The Infosys ZeD3 automation framework is a technology-agnostic early automation approach that provides consistent automation to

achieve the goal of Zero Distance between Development and Deployment. This approach enables early involvement of QA in the testing life cycle for agile development.

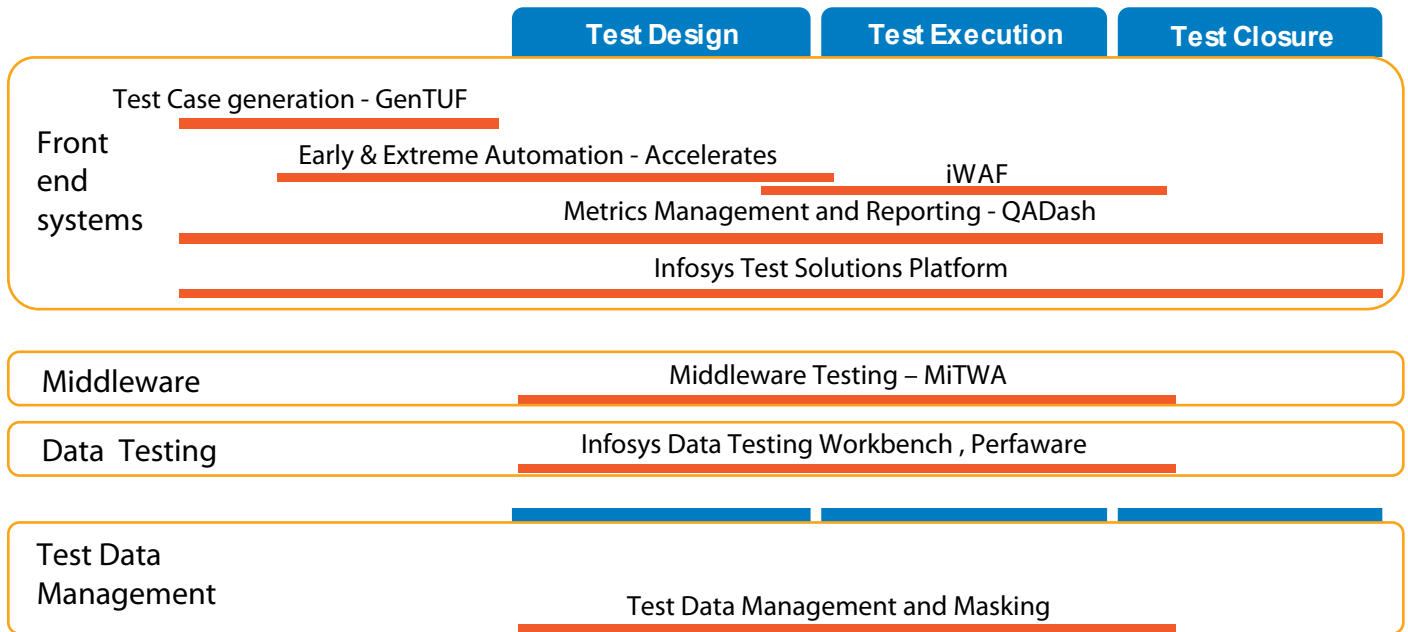
Further, it reduces automation maintenance effort by 30% and shortens time-to-market by 30% when automation is adopted early in the application lifecycle.



3 Automation across application architecture layers: Infosys provides automation services across

application layers such as user interface (UI), middleware, back-end, and batch processes. This enables one-touch end-to-

end test execution of business scenarios without the need for manual hand-offs between layers.



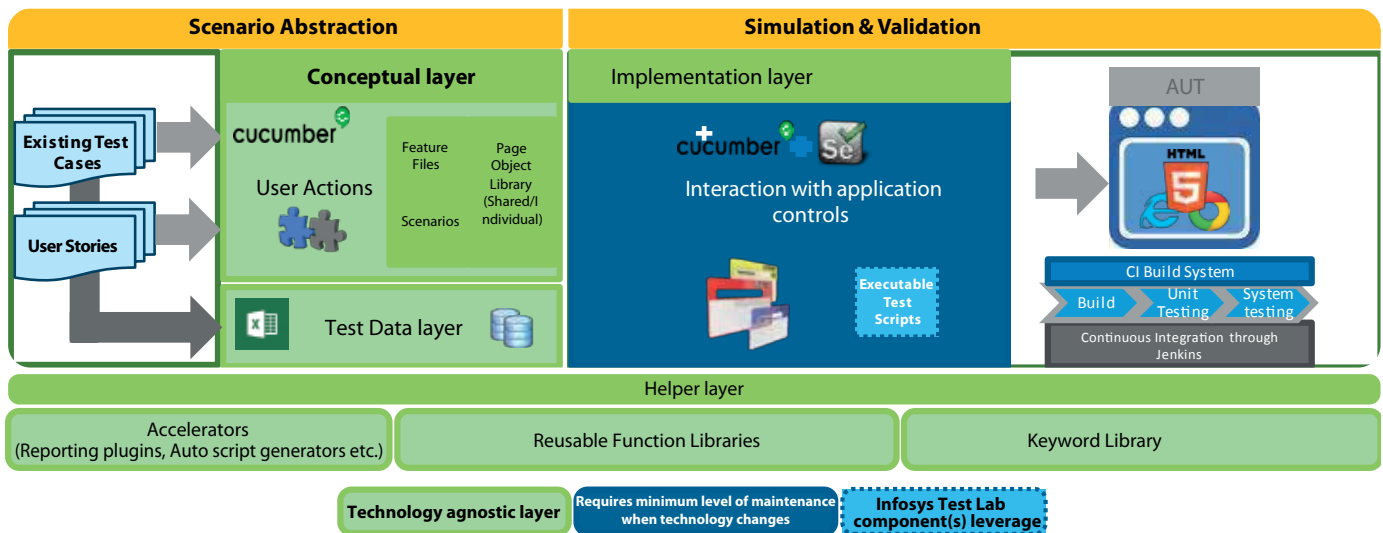
Enables One touch execution of test cases across the layers to test end to end business scenarios

4 DevOps automation enabling continuous integration and continuous delivery: DevOps approaches necessitates early and automated verification of build as well as continuous integration (CI) of the progressive

automation suite. Infosys provides services to automate the release process and enable continuous integration. ITSP also supports CI tool integration. This offering involves a behavior driven development (BDD) framework using Cucumber

and integration with Selenium along with implementation of test data layer, reporting layer and CI integration. This is a platform and tool-agnostic solution leverages Infosys IP AccelerateTest.

Test Automation Approach – Cucumber framework with Selenium core



5 Robotics in automation: Unique offering that enables end-to-end automation of business scenarios involving peripheral components such as cherry keyboards, ATMs and printers, which require manual intervention to complete a business transaction (such as swiping cards or printing on paper). In such cases, Infosys offers a robotics implementation that significantly reduces the testing cycle time and enables testing from offshore locations.

6 Life Cycle automation: Infosys enables automation across the testing life cycle stages from planning to design, test execution and reporting through tool sets, achieving a 30% improvement in productivity and 40% effort reduction in test data preparation.

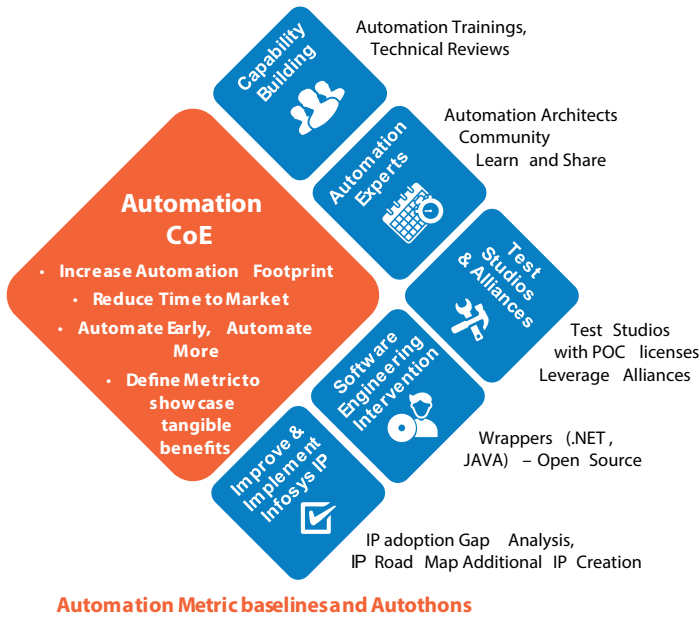
7 Service Virtualization: Service virtualization solutions accelerate automated testing by emulating the behavior of services in a virtual environment. Ready to use solutions include a simulated platform of configurable pre-built virtual assets that simulate Upstream and Downstream systems in the Payments landscape (built on CA Service Virtualization) that covers Global Payments processing, accounting, sanctions and clearing systems. This solution enables shift left of testing with 24*7 availability of constrained external systems, reduction in TCO due to customizable assets and instances deployed across environments and high reuse of easily configurable stubs providing jumpstart to projects and rapid deployment of products

8 ERP Test Automation: Infosys offers the Panaya CloudQuality suite for SAP which reduces the risk and effort of any SAP Change through its various features and ensures optimization and brings in greater efficiency in the automated software testing life cycle. It is driven by crowd wisdom and provides ERP and satellite landscape mapping. Infosys tools IPTA (Infosys Test Planning Accelerator) and IAOP (Infosys Automation Orchestration Platform) compliment Panaya for SAP test Automation. IPTA consists of 1500+ automated T-codes and IAOP is used to stitch them together to create a desired Automated Business/Test Scenario.



Infosys Differentiators

Infosys offerings are developed and supported by a robust automation ecosystem of partners, platforms (IP and Open source) and continuous capability development. The Infosys automation ecosystem comprises of:



Strategic Alliances	Infosys IP	Open Source
 	ITSP 3.0 MiTWA ZeD3 GenTUF AcceleraTest QADash Infosys Data Testing Workbench	



1 Third party alliances and test studios: Infosys has alliances with leading testing automation tool providers, thereby ensuring that engagements receive tool-specific expertise as well as platinum technical support. Test studios are set up in different locations to help conduct proofs of concept (POC) and test ideas as well as innovate on open source.

2 Certified and skilled talent: Training and certification programs are conducted at regular intervals across the testing practice to enhance automation skills.

3 Infosys intellectual property (IP) and proprietary tools: Infosys has proprietary tools that help automate testing across the life cycle. For example, the Infosys Data Warehouse Testing solution is a comprehensive and easy-to-

use tool that is designed to test high-volume and data-centric data warehousing and business intelligence (DW/BI) applications.

4 Accelerators: Infosys has developed accelerators specific to Financial Services and enterprise resource planning (ERP) products that can fast-track the automation.





For more information, contact askus@infosys.com

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