eTAP FOR STRATEGIC PLANNING OF ENTERPRISE-WIDE TEST AUTOMATION

Enterprise Test Automation Services
ARE YOU:

- Looking for optimum test coverage, minimum manual steps, fast go/no go decisions and excellent ROI?
- Facing difficulty with multiple interfaces (GUI, Web, API, EDI, Mobile) with varied automation needs?
- In need of increased test coverage involving emerging versus legacy applications?
- Having issues with your test scenarios involving complex integrated partner systems?
- Looking to ensure test suite adequacy for controlled and emergency releases?
- Often facing difficulty in selecting and prioritizing test automation strategy and aligning it to your business requirements?

BENEFITS

If the answer is “yes” to one or more of the above questions, we can help. CSC’s eTAP:

- Addresses challenges around selection, prioritization and execution of automation projects
- Extends the usage of automation to the entire software testing lifecycle in addition to conventional automated test execution (design, data, tasks, infrastructure, etc.)
- Provides an asset toolkit for test automation — Process, Technology, Integration and Quality
- Supports integration with industry-leading open source and commercial software testing
- Reduces operating costs of software testing (testing tools, people, infrastructure) and cycle time
- Improves overall quality of applications while preventing customer issues

WHAT IS IT?

Enterprise test automation is a challenging, multi-faceted undertaking requiring much consideration and planning. The most efficient, rationalized way to implement a company-wide test automation strategy is to use a test automation platform. In addition to conventional automated test execution, using a platform extends the automation to the entire testing lifecycle. By leveraging a platform encompassing market and custom tools, your organization can ensure it is taking the best steps for a successful testing operation.

CSC’s Enterprise Test Automation Services use our proprietary automation platform, eTAP™, to help organizations take a structured view of enterprise automation to reap the best ROI. eTAP consists of a test automation framework that enables full life-cycle automation testing and reporting through one interface thus helping our clients avoid manual and complex IT processes, while getting clear visibility on status and priorities.

eTAP consists of a collection of automation toolkits that enable more effective large scale test automation of complex business applications. The tools cover all areas of automation including test execution, test asset management, test processes, test data management and test infrastructure management as well as test accelerators to speed up the automation of various packaged software applications. Along with custom-made tools, the platform also supports integration with industry-leading open-source and commercial software testing tools.

eTAP is for those organizations that are looking to improve the productivity of their testing function through automation of repeatable manual testing. It is designed to achieve tool-supported test planning, optimized test design, adequate test data generation, faster test setup, framework-driven test execution, multi-level visibility and control.

HOW IT WORKS

Guaranteeing sufficient test coverage while knowing how much to automate, what to automate and what not to automate holds the key to a successful test automation strategy. eTAP provides a 360-degree view of test automation, with tools available to assess the ROI of test automation, viable test automation targets, optimization of complex test scenarios and visibility into quality governance through dashboards.

KEY FEATURES

- **Automation Toolkits** – Access nine automation toolkits to support enterprise-wide automation.
- **Consolidated Quality Management Dashboard** – Gain a singular view of quality management metrics.
- **Unified Interface Framework** – Execute end-to-end automation testing scenarios through a single integrated interface.
- **Data Generation** – Create test data for executing test automation scenarios.

KEY BENEFITS

- **Ease of Use** – Delivers all the automation requirements for end-to-end automation testing in one installer and alleviates the need to go to multiple sources to build out each component.
- **Unified View** – Provides a singular unified interface for automation test execution from test script creation through test execution reporting.
- **Extensibility and Scalability** – Integrates with third-party tools and addresses changing enterprise automation requirements.
WHY CSC?

- We have more than 50 years of experience in running the largest and most complex systems integration programs.
- eTAP, our test automation platform, is unique, comprehensive and proven to help you select the correct test automation strategy for the best ROI.
- Our proprietary SCORE Methodology™ is used to establish and maintain a Test Center of Excellence (TCoE) in IT organizations.
- Our staff is highly qualified in software testing with vast experience in handling complex testing engagements efficiently for clients across industry verticals.
- Our implementation offers a holistic approach that focuses on the strategic, tactical and operational aspects of the IT organization.
- Our in-depth domain knowledge ensures that our recommendations are tailored to the enterprise’s needs.

eTAP COMPONENT OVERVIEW

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<th>Component</th>
<th>Objective</th>
<th>Assets</th>
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<tr>
<td>1 Test Planning Toolkit</td>
<td>Select, prioritize and plan for test automation</td>
<td>ROI Calculator, Feasibility Analyzer</td>
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<tr>
<td>2 Reusable Automation Assets</td>
<td>Reuse assets to reduce time to market</td>
<td>CSC’s Automation Center of Excellence</td>
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<tr>
<td>3 Test Design Toolkit</td>
<td>Enable optimal, efficient test case generation</td>
<td>Test Case Optimizer, Web Services Test Case Generator</td>
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<tr>
<td>4 Test Data Toolkit</td>
<td>Reduce cycle time by generating large volumes of test data. Make production data available in test environment by masking it.</td>
<td>Test Data Generator, DMasQ and Dpull</td>
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<tr>
<td>5 Test Execution Toolkit</td>
<td>Abstract test execution and simulate third-party integration</td>
<td>Unified Interface Automation Framework, GSTAR, FLAME, GRAF Frameworks</td>
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<tr>
<td>6 Test Management Toolkit</td>
<td>Manage test lifecycle intuitively</td>
<td>TEMA (Test Management)</td>
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<td>7 Packaged Application Accelerators</td>
<td>Accelerate test automation of complex systems</td>
<td>SAP, Siebel, PeopleSoft/Oracle E-Business Accelerator</td>
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<td>8 Test Infrastructure Toolkit</td>
<td>Manage test infrastructure remotely and efficiently</td>
<td>CSC Infrastructure Management</td>
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<td>9 Executive Dashboard</td>
<td>Facilitate go/no-go decisions for production releases</td>
<td>EDB (Enterprise Dashboard)</td>
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CASE STUDY
The client is one of the world’s top five investment banks.

Test Planning Toolkit
ROI Calculator:
- Achieved 90% accuracy in calculating test automation ROI
Feasibility Analyzer:
- Achieved 92% success rate with test automation decision making

Test Data Toolkit
Test Data Generator:
- Used for routine generation of 25,000 records for Performance and Functional Automation Testing
- Reduced manual effort 78%

Test Design Toolkit
TCO:
- Achieved 80% of test case effectiveness which resulted in 99% reduction of production defects

Test Execution Toolkit
- Achieved automation coverage of 73% and reduced test cycle execution time by 80%
- Saved $600K on regression testing across all the products in one year

Process Assets
- Reused 60% of assets across applications resulting in 30% increase in productivity

Test Management Toolkit
TEMA:
- Deployed TEMA locally at the client site to manage testing across 7 enterprise applications resulting in a single unified view of metrics

FIND OUT MORE

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About CSC
CSC is a global leader in next-generation IT services and solutions. The company's mission is to enable superior returns on our clients' technology investments through best-in-class industry solutions, domain expertise and global scale. For more information, visit us at www.csc.com.