**ProlificsTesting**
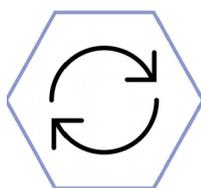CONSULT · TRANSFORM · DELIVER

# EFFECTA TEST MANAGEMENT & AUTOMATION ACCELERATOR

## END-TO-END SOLUTIONS
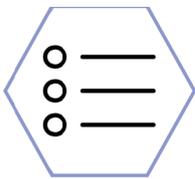
**SCOPE**
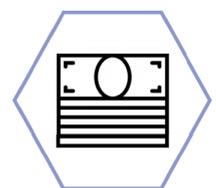Testing covers the breadth and depth of enterprise system landscapes

**AUTOMATION**
End-to-end test automation reduces test cycle times from days to hours

**QUALITY OUTCOMES**
Increase the value of testing with dramatically reduced errors

**REDUCE COSTS**
Test automation reduces expenses based on scope, test tools and testing strategy implemented

### OPTIMISE / IMPROVE YOUR TESTING STRATEGY

Most businesses find expenditures and man-hours required by system testing to be on the rise, especially among larger companies with complex environments. Keeping up with the demands of ensuring data coming into, getting transitioned and being manipulated by the system, and then leaving retains its integrity and consistency is an ever-increasing concern that puts business success at risk. Ensuring all applications are operating correctly and optimised for accuracy and efficient integration is paramount.

Prolifics understands the importance of data validation for business success, and that a testing strategy is necessary to achieve this. However, how many IT resources are your business spending on its current strategy? Are these resources all being put to their best use, or are they being under-utilised because of a lack of test automation or because your existing test automation has not reached its full potential?

Whatever your current situation, Prolifics' Effecta Test Management & Automation Accelerator has been designed to help.

### Facilitating Manual Test Management

Prolifics Testing' Effecta solution is primarily designed to support manual testing by providing an intuitive UI (user interfaces) that allows users to create an abundance of test artifacts (i.e., test requirements, test cases, test procedures, defects). This facilitates creating bidirectional, high-level mapping to business units between test requirements, test cases and defects.

Doing so makes easier quick and complete executions of regression tests/new tests for a test cycle easier. Test automation and acceleration by way of integrating with industry standard execution tools is an extended functionality used to speed up the testing process.

### End-to-End Test Automation Accelerator

Prolifics Testing' Effecta solution is an accelerator tool/ framework that provides functional automation in cooperation with most available open source and commercial automation tools. We can layer Effecta onto your existing automation processes, be they commercial or open source (e.g., HP UFT, Rational® Quality Manager, QTP, IBM RFT or Selenium).
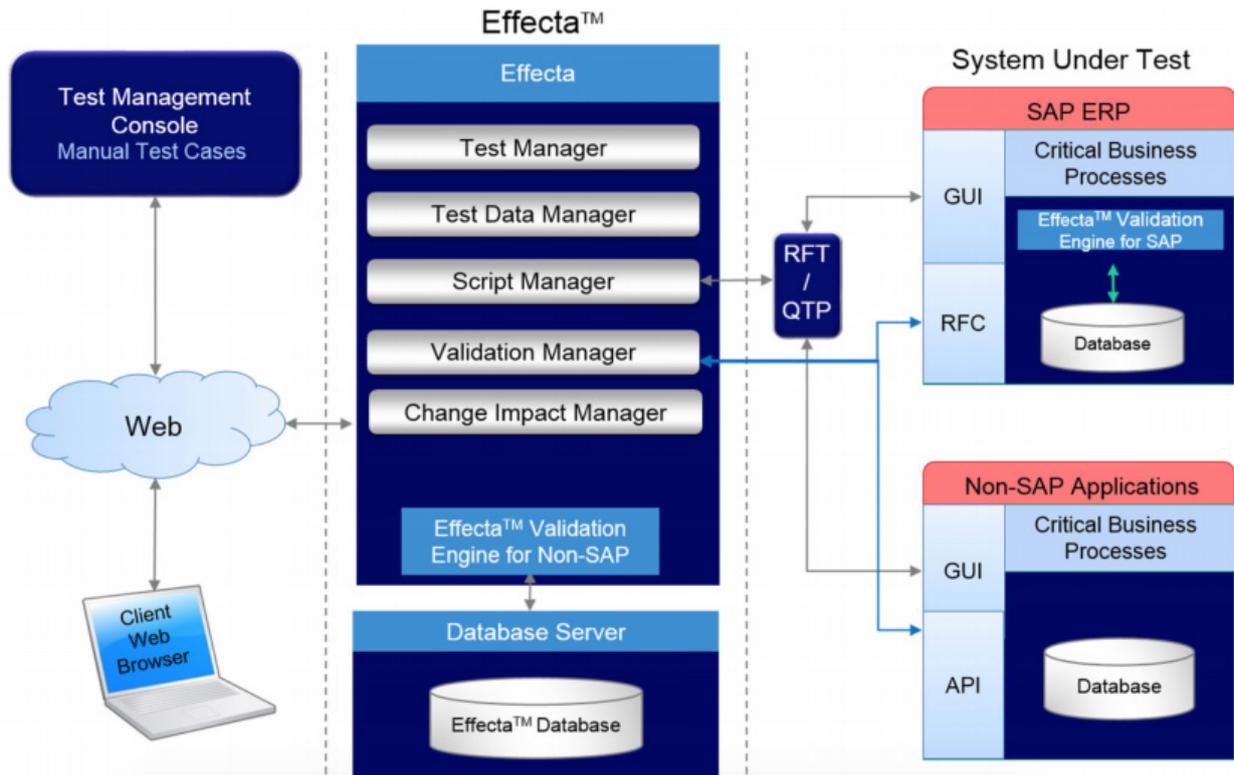
We can also implement new, customised test automation options. This is possible because Effecta includes a robust execution and validation testing automation engine for all non-UI test environments (e.g., Services, Middleware and backend databases).

If you are concerned that your existing environment is too outmoded to incorporate Effecta, this solution has you covered. Prolifics can address the demands posed by legacy systems by shifting to new, accommodating data warehousing without a loss of data integrity.

The Effecta Test Management & Automation Accelerator addresses the needs of testing and test automation for:

• Web portals
• IBM IIB Message Brokers
• Middleware Systems and interfaces
• SAP BI/BW
• Packaged Applications (e.g., SAP, EBS)
• Web Services (e.g., Rest, SOAP)
• Backend Databases being transformed or created via ETL processes

## Our Validation Engine Drives Data Quality

Processes such as data conversions and/or migrations, differing data governance rules set by the business' various aspects, reporting and document flow and more can all impact data validation. The more your business employs such processes, the more frequently your data needs to be tested to ensure its integrity.

Although we've given Effecta one name, it tackles multiple facets of your testing strategy. Beneath the Effecta accelerator framework is a broad range of tools and methodologies implemented and executed to most effectively do the job you require.

## Data Conversion Testing

Proper testing of any sort requires your entire environment operate under the same data standards. Your operations become vulnerable if one aspect of your system is using a different definition for the same data used by another component.

Effecta's automation process incorporates data conversion testing that accounts for the data's state and structure as it converts from Source to Target. This ensures the data is not only recognised and identified correctly, but also that its purpose is understood.

Effecta employs a central repository for its unified definitions of your system's data to ensure the same standards apply throughout your environments.using a different definition for the same data used by another component.

## SOA and Middleware Testing

As each new application increases system complexity, testing for proper integration amongst service-oriented architecture (SOA) and middleware becomes increasingly critical. Due to environmental interactivity, the repercussions can cascade if even one of these components is out of sync with the rest of your system.

We subject individual components to our Shift Left (test early, test often) automated testing methodology. All participating applications are included or simulated if not currently present. Once Effecta identifies errors and bottlenecks, we recommend the next steps needed to rectify these issues.
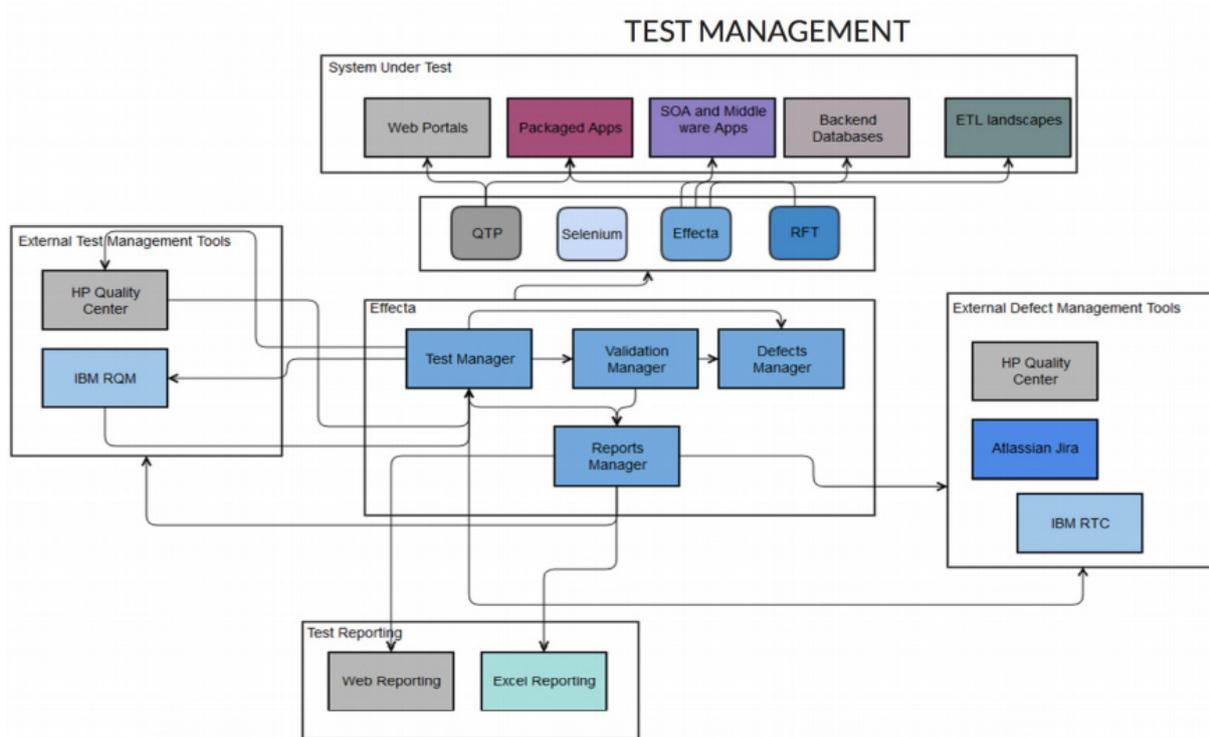


Given the various types of testing Effecta entails, it only makes sense that it include the means to provide end-to-end test management. Doing so involves documenting test cases, designing test steps, executing tests, and capturing test requirements and test execution metrics and reports.

UI Automation
Through Effecta, application UIs are automated to allow functionality during the automated testing process. This process automates any UI interaction or process that would traditionally need an operator. Doing so saves time during testing by removing the need for manual operations within the involved UI(s) and by reducing the possibility of human error.

## Effecta Offers Features & Results

Implementing Effecta starts with test management - defining your test requirements, procedures, executions, and so on) to get a clear picture of your environment's landscape. Effecta does so by analysing:
• Business processes
• Applications
• Integration
• Middleware and interfaces
• Database systems

Once this initial step is complete, a Test Model is developed based on the analysis' outcome and your testing strategy. This Test Model addresses:
• The need for Test Automation and Test Validation
• The testing types and testing levels that can be covered
• How any existing Test Execution toolset can be leveraged
• Whether a Test Execution toolset is required
• The value to be gained via Test Automation

Next, Effecta integrates your data extraction and maintenance needs. When it comes to Data Validations, the solution accelerates your testing strategy via:

• Automated flat file, table, and IDOC & XML comparison capabilities
• Applying new business logic validations on data
• Automatic validation of your data translation and mapping rules
• Automated data reconciliation between source and destination
• Script-free automation whether you've implemented Selenium, IBM RFT, or HP QTP
• Easier creation and maintenance of automation scripts
• Storage of test case data and criteria that are updated easily
• Usability across/internal to applications with Test Automation as an end goal

Doing more at a faster rate improves testing reliability, meaning the data applications you work with will be of a superior quality. Effecta's innovative automation improves reliability while reducing man-hours. Test results are reusable, further saving time. Also, its outcomes can increase overall system application quality.

Additionally, one of Effecta's most convenient features is that it operates through your web browser. This allows authenticated access from anywhere!

The Results are In!
Some results Prolifics' clients have reached thanks to Effecta include:

• 97% Defect Removal Efficiency (DRE) ratio
• $2+ million in cost savings
• Test cycles reduced from days to hours
•  Entirely or partially eliminated many manual operations, freeing up resources for other tasks and reducing total cost of ownership by 30%.

**The PASS Advantage**

Although it is available on its own, Effecta is also offered as a Prolifics Testing Acceleration Solution Suite (PASS) capability. PASS is both a strategy and combination of flexible solutions that are designed to adjust to and fit your system's various needs.

**Improve System Effectiveness with Prolifics' Effecta Solution**

Contact Prolifics Testing at **info@prolifics-testing.com** to learn how our Effecta Test Automation Accelerator solution may offer your testing strategy the edge it needs, on its own or as part of our Prolifics Acceleration Solution Suite (PASS) offering.