Arcsona Testing Accelerator

Simplify Salesforce integration through smarter testing

Before you can fully harness the power of Salesforce.com, you first have to get your application ecosystem off the ground. At enterprise-level clients, integrating and updating Salesforce with on-premise or other cloud-based solutions is a complex process involving myriad application interfaces and legacy systems.

Manual and rudimentary automated testing methods, such as record/replay, that are often used for functional testing in these environments are inadequate: manual testing is time consuming and laborious, while record/replay technology is fragile and unreliable because changes made in any single application can break test scripts.

Both approaches require stable test environments to run tests. This scenario is atypical with Waterfall development and even more unusual with Agile methodologies, where the goal is to run tests continually. With either approach, testing time is severely constrained.

Additionally, business analysts with knowledge of business requirements don't have the technical expertise to use complex automation tools. Over time, maintaining these types of test assets is resource intensive.

With development and quality assurance teams working against the clock to meet production schedules, manual and record/replay approaches leave little time to test every

combination and permutation in the application ecosystem. Only 30–50 percent of an application is typically tested, leaving too much to chance. Defects that leak into production may cost 50 times as much to fix as those found during development. The process can frustrate business users, stain IT's reputation and delay release schedules.

Open for business

Arcsona's business-process testing (BPT) accelerator is a robust, component-based solution that enables the enterprise to easily identify and test the collection of core business processes that define it as "open for business."
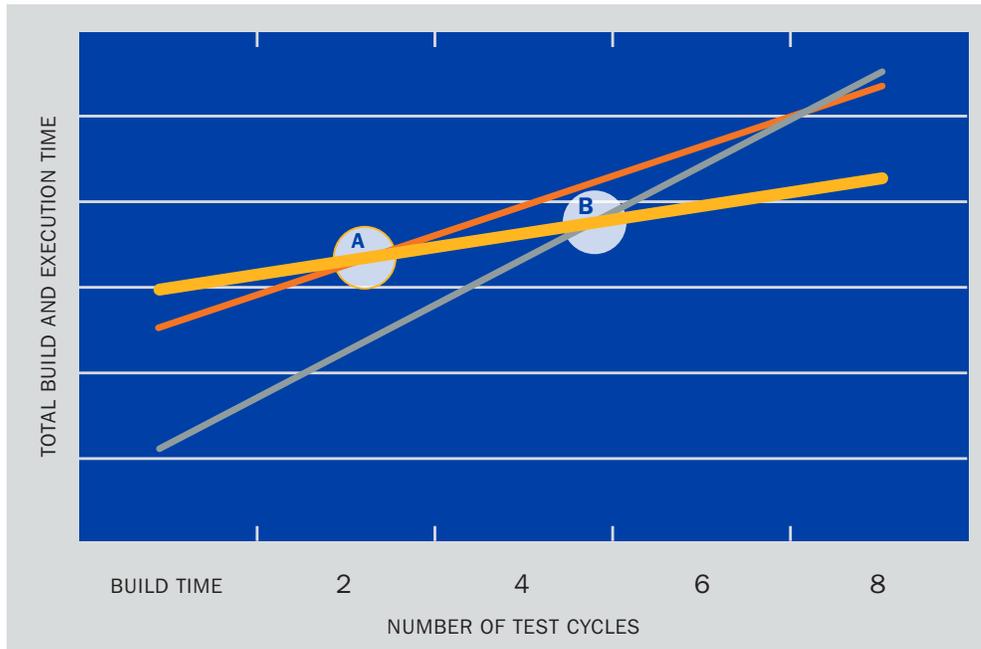
The accelerator treats business processes and functionalities as reusable elements from which to rapidly assemble test scripts and a regression library. Each tier of the accelerator's architecture serves as a building block for the next. When connected, these tiers comprise larger components of functionality within an application that can be joined to create business scenarios and integration scripts.

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Reducing the Time and Cost of Testing

TOTAL BUILD AND EXECUTION TIME

A

B

BUILD TIME   2   4   6   8

NUMBER OF TEST CYCLES

— Arcsona Accelerator
— Record & Replay
— Manual

A Arcsona Accelerator becomes less expensive than Record & Replay after 2 test cycles

B Arcsona Accelerator becomes less expensive than Manual after 5 test cycles

Assumption:
Average study based on multiple engagements.

Using this solution, enterprises can comprehensively test business transactions, end-to-end, across multiple Web-based and legacy systems, including Salesforce, SAP, Oracle, Siebel, Eloqua, Marketo and BigMachines. EDI transactions and email and portal activity coming into Salesforce can also be tested.

Arcsona's automation approach reduces script development time by up to 90 percent and increases application test coverage to 85 percent or more.

Higher quality, easier maintenance, faster ROI

Arcsona's automation approach delivers consistent, repeatable and scalable testing that reduces script development time by up to 90 percent and increases application test coverage to 85 percent or more. Better coverage reduces the risk and high cost associated with defects that leak into the production environment.

Some of the largest corporations, including high-tech manufacturers and energy providers and utilities, have used Arcsona's BPT accelerator to successfully integrate and deploy their cloud-based solutions.

Built upon automated testing frameworks from HP and other leading testing tools, the accelerator greatly reduces the time to construct and execute an automated test suite, and streamlines script management and maintenance.
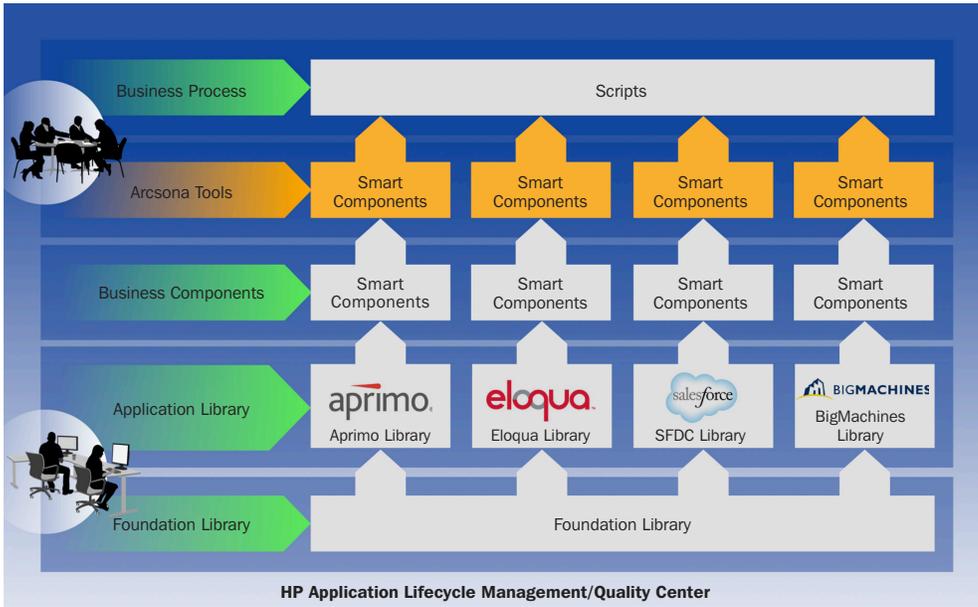
Arcsona's test harness automatically generates an inventory of reusable components. These serve as building blocks

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Reusable Framework Components

HP Application Lifecycle Management/Quality Center

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that allows users to create tests and develop scripts based upon their customizations.

Non-technical users can easily assemble and modify tests using drag-and-drop components created by the testing team. Changes made to an individual functional object automatically propagate to all test scripts that use that component.

Simpler script management and maintenance speeds regression tests and application upgrades. Enterprises can also leverage features and functionalities from previous development projects in subsequent testing.

By shrinking overall functional testing time, increasing test coverage and quality, and simplifying maintenance, enterprises achieve a faster time-to-payback compared to manual and record/replay methods.

Accelerator Architecture
Each test comprises a business process script and three underlying library layers that enable rapid script development

and simplified maintenance for application updates, testing framework upgrades and other regression library management activities.

Foundation library – Universal set of functions and code that are application-independent and can be applied to any test in any application.

Application library – Application-specific functionality that is based on standard objects provided by an application, such as Salesforce.com, but is independent of customization and/or business processes.

Component library – Application functionality that is highly dependent on a specific application version and customization. Up to 90 percent of the library may be reused in subsequent projects within the same organization depending upon the degree of customization.

Business process test script – Main script that contains high-level scenarios but does not necessarily have function definitions or complex logic.

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ARCSONA TESTING ACCELERATOR		
Higher Quality	**Easier Maintenance**	**Faster ROI**
Develop consistent, repeatable, scalable tests	Reduce script development time up to 90% and simplify test creation for new applications	Reduce risk and costs up to 50x by eliminating defects early in the development cycle
Enterprise-wide testing approach delivers automatic end-to-end, cross-platform testing of all applications and interfaces	Create customizable test components	Accelerate regression testing and application upgrades
Enable business users to build tests without coding knowledge	Create and maintain application tests in unstable development environments	Use IT resources and time more efficiently
Achieve broader coverage in less time	View business user–oriented test results reports in HTML	Execute tests continually to support Agile methodologies
Higher quality implementation with more code coverage +	**Easier script maintenance in dynamic environments** =	**Better results with a lower investment long term**
Project Impact: Lower Total Cost of Ownership		

Arcsona Professional Services

Arcsona can help you optimize your investment by providing strategic leadership and technical expertise to ensure success of your testing and quality efforts.

Arcsona is a full-service consulting firm providing software testing, and Salesforce.com and big-data implementations. We provide consulting services using U.S.-based and nearshore professionals who work in close collaboration with local teams to deliver solutions that can scale to meet enterprise needs. We use proven project approaches, such as the Scaled Agile Framework and our proprietary technologies, to accelerate your efforts and deliver value to your organization.

For More Information

To learn more about how the Arcsona testing accelerator framework can help you build functional and regression test suites, visit www.arcsona.com.

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