CA Application Test

At a Glance

CA Application Test is a collaborative automated testing solution designed for modern Web and mobile applications that leverage APIs and Web services, as well as legacy backend capabilities for data stores and enterprise suites. It features a codeless testing framework that enables multiple cross-functional team members—including development and quality assurance—to rapidly design and execute automated unit, functional, regression, integration, and performance tests.

CA Application Test can dramatically reduce the cost of validation and provide industry-leading capabilities to test Web, mobile and other application UIs as well as heterogeneous middle-tier technologies that are pervasive in today's modern application economy.

Key Benefits/Results

- **Lower testing cycle times and costs.** Test automation reduces or eliminates manual testing.
- **First-day test automation.** Test assets and Virtual Services allow automation very early in the SDLC.
- **Increased development productivity.** More new features released without increasing resources.
- **Better quality.** Expand test scenarios to catch more bugs earlier and improve quality.
- **Adopt best practices.** Automated regression and continue tests testing enable DevOps and Agile practices.

Key Features

- **Complete test coverage.** Single test framework, Invoke/Verify at every app layer; dynamic Web UIs, mobile, Web Svcs, ESB/JMS Msgs., EJB Svrs, Java™ objects, DBs, file Sys and legacy objects.
- **Codeless tests.** No test scripts to write/maintain.
- **Collaboration with high productivity visual tests.** Testing "headless" middle-tiers with no UIs.
- **Mobile tests.** Use existing test for filters, assertions, reports or data sets with a plug-in for iOS and Android™ app tests.
- **Web UI tests.** Selenium integration enables testing from UI to backend systems.
- **Load and performance testing.** Easily extend function tests for load/perform. Make test coverage efficient and load test individual components earlier.
- **Integrate with management tools.** Store/launch test cases as executable assets alongside source code and required management, build, issue tracking or test management tools.

Business Challenges

Enterprise applications are becoming more complex, distributed and heterogeneous. Application business logic is no longer found only in the UI and the database (as in client/server) but now extends across multiple middle tiers and technologies. This is further complicated when applications consume underlying services from third-parties, or use highly interactive presentation layer technologies.

Organizations are also implementing more agile development methods and distributed teams. Yet, use of shareable, reusable test assets between these teams is limited or non-existent. Different tools are often employed, such as code-based unit testing tools for developers that are unusable by QA and functional UI testing that does not translate errors into repeatable defects for developers to catch bugs earlier.

Modern application quality can only be ensured when every layer of the application is tested and verified throughout the software lifecycle. This requires a much higher degree of test automation and collaboration among stakeholders.

Solution Overview

CA Application Test provides complete test coverage with the ability to invoke and verify the behavior of each component across the end-to-end application. CA Application Test provides automated testability for all components in the technology stack. Out of the box, CA Application Test provides industry-leading standards support, with native integration to most J2EE servers, integration suites and ESBs. Integration with Selenium Builder, a popular open source UI testing tool, enables end-to-end testing from user interface all the way to backend systems.
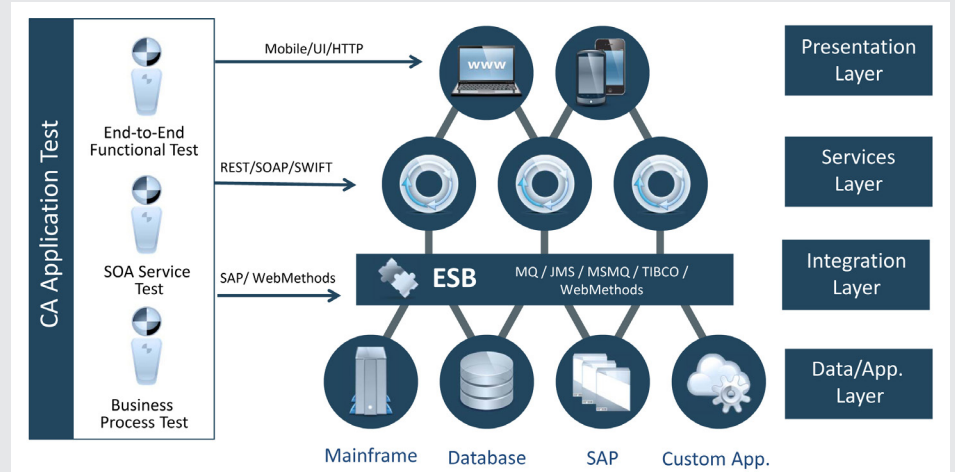
CA Application Test also builds portable, executable test cases that are easy to extend, modify and maintain; easy to chain into workflows with other tests or suites of tests; and simple to integrate with existing test repositories. Test cases are designed to be shared across different teams and environments with the ability to easily attach prior results and artifacts to extend them and the ability to readily execute with different underlying data.

Critical Differentiators

With CA Application Test you can help you deliver a more responsive and reliable applications that consistently delivers higher quality functionality, even for the most complex and distributed environments.

▪ Using CA Application Test, you can lower testing costs and shorten release cycles, providing a greater ROI on your testing initiatives while ensuring that defects are resolved before end users are impacted.

▪ Ability to test each component of your application architecture individually means you can automate the validation of business processes that span across multiple internal and cloud based services.

▪ Powerful extensibility features to bring testability to legacy and custom developed components.

▪ Continuous testing makes the testing seamless part of the process instead of an after event.

▪ Codeless Test Automation allows your current QA resources to be effective without the need to learn programing.

▪ Combined with CA Service Virtualization makes First Day Test Automation a reality.

CA Application Test—Invoke and verify functionality at every layer of the application to make test automation a reality.

Related Products/Solutions

▪ **CA Continuous Application Insight.** Automate the creation and maintenance of services; simplify the production and management of automated test suites.

▪ **CA Service Virtualization.** Capture and simulate the behavior/data of unavailable or incomplete systems, acting as a stand-in throughout the software lifecycle.

▪ **CA Mobile Cloud.** Test applications on physical mobile devices in the cloud.

▪ **CA Cloud Test.** Build, execute, and analyze performance tests by using private or external cloud providers.

▪ **CA Data Finder.** Provides the capability to quickly design, find, create and provision 'fit for purpose' test data for the efficient, cost-effective test cycles.

For more information, please visit **ca.com/devcenter**