



TURNKEY CASE STUDY

Leading financial company invests in scriptless testing, broadening test coverage to validate more business-critical processes

TurnKey Solutions helps drive testing efficiency, accuracy and extensibility



Advanced application testing and QA automation is key to delivering higher levels of quality and efficiency. Companies need to know that core business systems will continue to operate when new features and services are implemented. And when you're talking about a large financial organization that manages over 600 applications—all in various states of evolution and iteration—anything not continuously validated represents a potential recipe for disaster.

Understanding the business role of application validation

As one of the leading financial holding companies in North America, this organization serves a broad range of retail, business and institutional clients and is entrusted with some of their most sensitive business data. Poorly performing business applications are unacceptable, and a seemingly simple mistake could cause immeasurable damage to the company's carefully curated reputation.

Because application testing was so fundamentally important to their business model, the company found it imperative to sharpen their focus on software quality assurance (QA) in an effort to accelerate delivery of business-critical applications. For end-to-end testing, it depended on the highly effective HP ALM platform. Lack of sufficient resources and tight time constraints meant that the company was constantly struggling to keep up with the pace, volume and sheer velocity of new software introduction.

Taking automated testing to new levels

Over the years, the company had built up an extensive library of custom HP QuickTest Professional (QTP) test assets. And while these went a long way towards achieving some level of testing efficiency and helped the organization reuse many test components for cross-platform business validation, it still wasn't enough to meet their extensive automation needs.

Their test automation tools still required a considerable amount of manual interaction. Developing scripts was essentially a manual process that also required specialized skills and access to the people who understood the application and the business processes. They also had to deal with the ongoing challenge of maintaining and updating the script libraries. In the end, the financial company was ultimately limited to only automating around 30% of their core business application testing.



They needed a new tool capable of automating more aspects of their QA strategy and enabling continuous testing to allow them to respond more quickly to change. The company wanted to empower users with drag-and-drop simplicity, putting testing into the hands of business users, business analysts and test experts alike. They also required that the new solution fully and seamlessly integrate with their existing HP ALM software to protect their long-term investment.

TurnKey Solutions—the obvious choice for scriptless automation

After some exploration and consultation both internally and with their existing partners, the company discovered that HP had a trusted relationship with a premier test automation partner—TurnKey Solutions. Not only was TurnKey’s technology designed from the ground up to fully integrate with HP ALM, but it also featured the opportunity to integrate advanced accelerators capable of adding considerable value to the testing environment.

The financial firm immediately initiated a process to validate the TurnKey solution and the results were clear. To start, TurnKey’s Scriptless Test Automation firmly established that it was fully compatible with the organization’s software quality requirements. And after just two weeks of analysis, it was determined that TurnKey could help achieve a 40% reduction in time and cost when creating and maintaining tests. With that sort of performance potential, the company continued to work with TurnKey to develop a one-year strategic roadmap designed to ensure the project’s success. They initially implemented TurnKey into three business units—Online Banking for Small Businesses, Mortgage, and Digital—to drive high rates of automation.

Extending testing capabilities across the enterprise

TurnKey’s Scriptless Test Automation software provides an all-in-one solution that actually extends the functionality and value of the HP QA platform. In the company’s case, they engaged TurnKey through an enterprise license of the cFactory Scriptless Testing software and the Oracle Accelerator for Oracle EBS 11.

TurnKey’s Oracle Accelerator features extensive pre-built content for most common Oracle EBS modules, enabling them to hit the ground running and immediately derive significant value from the TurnKey solution. Users could leverage Oracle test components out-of-the-box in many situations, and easily create customization when necessary to adapt to their unique business requirements.

The cFactory software extended the TurnKey solution far beyond Oracle EBS 11 capabilities, helping to create a broad range of tests for a variety of core business functions. In fact, the organization was able to leverage cFactory’s data-driven engine to ensure that a single master test case could literally cover hundreds of different processes and scenarios for a particular application. The data-driven approach dovetailed neatly into their “Less is More” approach to drive greater coverage with fewer test cases. For example, the Mortgage Test Team usually attempted to execute through 40,000 test cases each time the vendor delivered a new code drop. With TurnKey, they were able to significantly reduce the number of test cases, while still maintaining the test coverage needed. And TurnKey’s dedicated services team was available to help in creating test scenarios that proved particularly challenging, helping them establish the extensibility necessary to efficiently validate these complex application environments.

Challenge:

A leading financial organization needed an automation platform that would allow it to optimize its current IT infrastructure while expanding test coverage to minimize business risk. The company implemented a progressive automation framework driving towards first time validation via automation. The idea was to deliver compounding value in script re-use over time, from build-to-build and code drop-to-code drop. Traditionally, instability of code using traditional methods led to higher script maintenance costs. They needed a scriptless testing automation solution that would streamline testing and accelerate delivery of Oracle EBS 11 and other applications across the enterprise.

Solution:

The company already had existing investments in HP Application Lifecycle Management (ALM) software. They chose to extend their testing capabilities and further empower their internal QA testing team by enhancing their existing HP solution with TurnKey cFactory software and Oracle Accelerator.

Benefits:

- **Drove a 5x reduction in the time and effort** required to maintain automated tests.
- **Significantly expanded test coverage** by enabling non-technical business users, business analysts, and test experts to leverage a more intelligent, data-driven approach to automation.
- **Achieved more agile, efficient delivery of higher quality applications**, meeting the demands of their business while leveraging their existing HP ALM investment.



Greater testing automation, efficiency and quality

The combination of HP ALM, HP QC and TurnKey Scriptless Testing has resulted in significant benefits. The Former Group VP – Test Services indicated that the benefits to the business have been far-reaching, “Next-generation automation capabilities have represented a huge increase in the speed and quality of automated testing.” He continued, “Many of enterprise systems tend to be in a constant state of evolution and change, and TurnKey’s software has proven extremely valuable in its ability to support the high volumes of regression testing required.”

The user-friendly and intuitive functionality of the TurnKey software has also been extremely valuable to the QA testing team, enabling them to easily build and maintain functional tests with no requirements for technical scripting or coding. cFactory auto-maintenance features helped the company keep test cases up-to-date, allowing them to respond more quickly to change while more effectively leveraging current test assets.

Faster delivery of higher quality applications at lower cost and risk

The extension of testing capabilities and increased efficiency has enabled the company to both accelerate testing and cover a broader range of business scenarios. They were able to achieve greater test coverage, and significantly reduced both test preparation time for new function and maintenance of automation artifacts. The company can now deliver high-quality business-critical and customer-facing applications that are fully tested to deliver proven performance. Additionally, their QA testing team is now able to take full advantage of the organization’s significant investment in the HP ALM platform to increase the holistic value they are able to drive across the enterprise.

About TurnKey

TurnKey Solutions is HP’s exclusive partner for scriptless test automation. Our solutions transform the HP Application Lifecycle Management (ALM) platform giving customers a highly dynamic, easy-to-use and cost-effective test automation solution. With over 10 years of technology integration and development, the teams have worked together to deliver industry leading solutions that help mid-sized companies and global enterprises accelerate time to market, lower costs and increase the quality and performance of their enterprise applications.

To schedule a live demo contact us at sales@turnkeysolutions.com

For more information on TurnKey Solutions and its products, visit www.turnkeysolutions.com



©2015 TurnKey Solutions Corp. cFactory is a trademark of TurnKey Solutions Corp. All other trademarks are the property of their respective owners.