

Leveraging automation for faster, smoother testing

One of the largest independent financial broker-dealers in the United States, with more than 15000 financial advisors and \$615 billion in brokerage assets, faced serious challenges with their in-house testing operations.

ADDRESSING THE MANDATE

A shared development environment meant that releases to production took 18-22 hours every week and demanded intensive hours from application management personnel. To address this, the client needed Collabera to:

- Implement a continuous development, testing, release, deployment and monitory system
- Streamline and simplify workload management across the DevOps lifecycle via orchestration and automation
- Introduce change management procedures, as well as optimization and rollback processes
- Address the inability to handle change requests and enhancements, while shortening change implementation cycles
- Align the goals and processes of the development and operations team
- Eliminate siloed infrastructure and siloed application testing teams
- Improve overall time-to-market

THE RESULTS

80% Reduction In Manual Effort

Collabera's continuous integration system automatically triggers testing cycles upon code commit and led to a massive reduction in manual testing effort.

Increase in overall code coverage for faster testing cycles

Increased adoption of overall testing automation for reduced manual testing effort

Significant gains in overall team productivity

Development and operations are now aligned in terms of goals and critical KPIs

Enhanced UI

Domain SMEs can now develop test cases with minimal knowledge of the automation framework

Flexible Framework

We designed a fully configured automation framework for to help improve test coverage and simplify testing processes.

- Customized automation framework that supports omni-channel testing and can be adopted across different products and environments
- Implemented end-to-end test automation coverage
- Implemented reusable and modular code structures to shorten overall development cycles

THE CHALLENGES INVOLVED

01 All Too Short Sprints

A large number of regression and sanity cases needed to be covered in a relatively short sprint cycle

02 On-Premise Sharing

Shared environments and workloads that were run using an on-premise, legacy solution

03 Process Bottlenecks

Heavy dependencies on release to production and reliance on manual effort, causing inefficiencies along the entire development life-cycle

THE APPROACH & THE SOLUTION

Collabera identified that automation would be the key to helping the company meet their testing objectives. Our automation teams analyzed all the regression and sanity test cases to determine the best tools, infrastructure and expertise required.

- Finalized the use of Cucumber with a Selenium framework to increase test coverage and automate acceptance tests in a behavior-driven deployment (BDD) style
- Brought in SMEs and specialists to implement containerization supported by Kubernetes and Docker on Windows infrastructure
- End-to-end automation for release management
- Automated the production releases, CI/CD deployments, and Blue-Green deployment
- Established an automation framework that supported 5 browser types across 8 different versions in execution
- Implemented automated containerized deployments

Founded in 1991, Collabera is a leading global IT staffing and services company that helps enterprises transform their technology, processes and operational models. We empower our customers by overcoming bottlenecks and silos, and building connected business systems that scale in real time.

For more information, visit: itservices.collabera.com

Get in touch with us

110 Allen Road
Basking Ridge, NJ 07920

Phone: 877.264.6424 | +1.973.889.5200
Fax: +1.973.292.1643
Email: info.services@collabera.com

