

Coveros Selenified™ Quick Start

A Pragmatic Approach for Accelerating Test Automation



Selenified[™]
SELENIUM SIMPLIFIED

INTRODUCTION

Forward-thinking organizations are examining ways to improve software quality while still being productive and reducing software costs. Agile testing methods and test automation are often cited as ways of achieving these objectives, but they can be difficult to successfully implement within an organization.

While many consultants offer a one-size-fits-all solution, Coveros does things differently. For over a decade, we have helped businesses implement test automation architectures and automated tests that are specifically tailored to their unique needs. We also train key staff members in each organization we assist so that they are able to maintain the frameworks and tests that we develop, long after the engagement has ended.

THE COVEROS APPROACH TO TEST AUTOMATION

Coveros finds that organizations struggle with test automation for several reasons:

- *Testing isn't integrated with development:* When there is a separation between the development and testing teams, testers have a reduced ability to advocate for changes to the code that will make it easier for them to write automated tests.

- *The agile process doesn't consider test automation:* Teams must account for the effort required to automate tests during sprint planning, and the definition of done must dictate that properly scoped and passing automated tests be created before a story is considered complete.
- *Inefficient and fragile test automation:* Most test automation is focused at the user interface level, which increases the fragility of the automation and reduces its effectiveness. Automation should be performed at the lowest practical level to improve the stability and efficiency of testing.
- *The entire testing process isn't automated:* Some organizations only automate test execution instead of also automating test setup, test results verification, test teardown, and test data reset.
- *Tools are put before process:* Processes, people, and organizational structure must be in proper alignment before test automation can be successfully adopted.
- *Inadequate test infrastructure:* Infrastructure such as version control systems and test environments must be in place to support automated testing efforts.

To help your organization jump-start its test automation efforts, Coveros will perform the Selenified™ Quick Start.

Before this engagement begins, we will discuss your organizational structure, current processes, and the technologies that you are using for development and testing to understand whether this engagement is a good fit for you. If we decide to move forward, we will have two of our test automation experts work for two

weeks to implement a suite of automated tests and train your staff on how to maintain those tests and how to develop additional tests. This engagement is a great way to get some model tests that your team can refer to as they build out your suite of automated tests.

There are two steps in this engagement:

1. *Implement automated testing:* Set up the Selenified™ testing framework, design a test architecture, and implement a suite of model automated tests
2. *Deliver high-level training and documentation:* Document the architecture and tests, and then train your staff on how to maintain the current tests and how to add additional tests in the future

Coveros will begin the engagement by holding a kickoff meeting to set expectations, agree on project goals, and obtain buy-in from senior management. After this meeting, our test automation experts will install the Selenified™ testing framework and design a test architecture that emphasizes maintainability and reusability.

Our staff will then write model automated tests at the UI and API levels for the application that was agreed upon during the project kickoff meeting. These tests will utilize the test architecture and demonstrate industry best practices. Finally, our team will integrate the execution of these tests into your build process so that the automated tests can be run easily, providing your team with feedback on the application as it is being developed.

After the tests have been written and run as part of the build process, the engagement team will document the architecture and tests that were developed. Our team will then train the members of your staff who will be taking over the test automation effort on how to maintain the existing tests and how to add additional tests in the future. These tests will be stored in your application's version control repository so that they can be versioned alongside the code that they test.

Before ending the engagement, our team will prepare and deliver a final presentation that will reiterate the purpose of the engagement, describe what Coveros was able to accomplish, and list recommended future work.

Deliverables for the Selenified™ Quick Start include:

- A suite of automated tests implemented at the UI and API levels that will be stored in the version control repository for the application that they verify
- Documentation for the test architecture and automated tests, along with training for members of your staff
- A final presentation that will be given at the end of the engagement

RELEVANT CERTIFICATIONS

Coveros has partnered with the International Consortium for Agile (ICAgile) and American Software Testing Qualifications Board (ASTQB) to provide certifications to agile professionals. Through our training program, your organizational staff can receive certifications in:

- Fundamentals of Agile (ICP certification)
- Agile Testing (ICP-TST certification)
- Mobile Testing (ASTQB certification)
- Agile Test Automation (ICP-ATA certification)

SUMMARY

Coveros's Selenified™ Quick Start provides your organization with the boost it needs to jump-start its automated testing efforts. Our test automation experts will develop a test architecture and automated tests over a two-week period and store those tests in version control. Your team can use these tests as a model for industry best practices while they implement additional automated tests. Given our philosophy that every organization is unique, we will tailor the architecture and tests that we write so that they best fit your culture, market, organizational structure, people, and business environment.

ABOUT COVEROS

For over a decade, Coveros has helped organizations accelerate their software delivery with the latest DevOps and agile methods. Our full complement of cutting-edge services help organizations assess and improve their software development, testing, DevOps, and application security practices.

Our clients include such leading organizations as UnitedHealth Group, Delta Dental, Department of Homeland Security, Symantec, US Air Force, Fannie Mae, RSA, WorldBank, and Advent.

Coveros is headquartered in northern Virginia.

To learn more about Coveros and our agile and DevOps services, go to www.coveros.com.