

CASE STUDY

Scorpion Software - security specialists build a custom testing environment with Telerik Test Studio - and save \$100K a year



OVERVIEW

COUNTRY

Canada

SECTOR

Security software

CUSTOMER PROFILE

Scorpion Software is a software security specialist that helps SMBs reduce their business liability, gain staff accountability and increase productivity with software that monitors and strengthens access to information onpremise and in the Cloud.

BUSINESS SITUATION

System quality is especially important for a vendor of security software. With three product lines and multiple platforms to support, the QA requirement was becoming increasingly hard for Scorpion Software's existing testing system to meet.

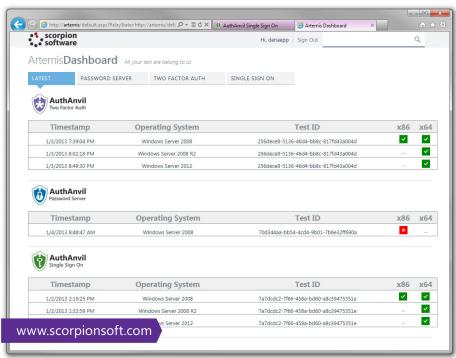
SOLUTION

Scorpion Software made Telerik Test Studio the heart of their automated test management platform, leveraging Test Studio's extensibility to create a custom solution meeting their unique needs.

RESULT

Test Studio is now integral to Scorpion Software's QA process. Even with the additional costs of migrating staff and existing test infrastructure to Test Studio, Scorpion Software is already seeing a \$75-100,000 saving in the first year while testing three times the volume of code they were testing just two years before.

For a company selling security, system quality is not optional – it's the core of the business. Scorpion Software needed a highly capable automated testing system which was easy to use, could provide rich data and integrate with existing infrastructure. With Telerik Test Studio, they achieved all this – and saved \$100K in the first year of deployment.



Scorpion Software's Test Automation Dashboard

My goal will always be to automate as much as we can. Automation has been instrumental in increasing our product quality by maintaining a constant, consistent testing process."

Dana Epp, CEO and Chief Software Security Architect at Scorpion Software, and a Microsoft MVP



HOW TEST STUDIO SUPPORTS THE LATEST TECHNOLOGIES

Test Studio delivers functional testing for HTML, AJAX, Silverlight and WPF applications.

HTML Test Studio is built to handle the challenges of testing web applications: timing issues, browser incompatibilities, new HTML5 handlers, popups, drag and drop.

SILVERLIGHT Test Studio is the first test solution to deliver support for Silverlight, handling custom controls, complex animations, child windows and popups, and virtualized controls.

AJAX Test Studio takes the pain out of testing AJAX-intense web content. It's easy to test complex UI actions like drag-and-drop, invoke JavaScript functions from test code, and perform logging actions. The test recorder makes it easy to wait on AJAX operations before executing specific verification.

WPF Test Studio delivers a rich UI object model that covers the entire range of UI elements in WPF and its recorder helps users locate targeted elements in the application hierarchy with a mouse click. Test Studio makes it easy to test custom controls, elaborate graphics and popups.

TELERIK REPORTING: A POWERFUL SOLUTION FOR ANY .NET APPLICATION

Telerik Reporting provides powerful ad hoc reporting for web, desktop and cloud applications. Rich interactive and reusable reports can be created by developers in Visual Studio, and by end users in the desktop-based Report Designer. With the help of Telerik Reporting users can examine and probe data, export reports to Excel and PDF for further analysis, and even present them as PowerPoint documents.

Because reports are created in a class library, they don't need to be recreated for each platform. Report viewers are available for ASP.NET AJAX, WPF, Silverlight (in and out of browser) and Windows Forms. Reports can be directly embedded into .NET forms.

BACKGROUND

With the global cost of corporate security breaches running to billions of dollars annually, Scorpion Software has a mission: to solve the obvious problems with passwords that others ignore. Scorpion Software's family of AuthAnvil products – password management, two-factor authentication and single sign-on solutions – keep vital business assets secure for thousands of customers worldwide.

For a company selling security, system quality is more than just a 'nice to have'. "Every day, we set out to produce secure, reliable software that will protect our customers," says Dana Epp, CEO and Chief Software Security Architect at Scorpion Software, and a Microsoft MVP. "My expectations are extremely high when it comes to quality – at times at a level which is hard for my team to achieve."

THE CHALLENGE

With three product lines and multiple platforms to support, Scorpion Software knew that rigorous quality assurance could only be delivered by an automated testing system.

"My goal will always be to automate as much as we can," says Dana. "Automation has been instrumental in increasing our product quality by maintaining a constant, consistent testing process."

As a fast-growing company, Scorpion Software's needs were rapidly increasing and their legacy testing system was unable to keep pace. "The product we were using simply wasn't capable of doing web testing across so many browsers while also maintaining WPF testing in the same project. We needed a single product that could do it all. The time saved in not having to use two different products was a motivating factor. So was the cost."

THE SOLUTION

Scorpion Software evaluated several testing products including Test Complete, Visual Studio Test Professional and WinRunner. They chose Test Studio by Telerik.

Scorpion Software built a custom testing platform around Test Studio. Running overnight, the platform automatically spins up clean virtual machines for all the operating systems the company targets. It installs Scorpion Software products on the virtual machines and runs Test Studio tests on them. Results are reported to a dashboard where staff can view them first thing in the morning.

"All of this happens without any human interaction. Because of Test Studio's comprehensive results, we can be confident that our software is bug-free against our known tests when our Test Lists pass, and if they don't pass, we know where the failure occurred and respond to it accordingly."

Test Studio's extensibility was central to building the system. Test Studio integrates C# code into the tests themselves, allowing Scorpion Software to customize the testing environment with C# utility classes.

"Test Studio allows us to build tests we could not have performed before, such as tests involving dynamic content and complex data sources. My team has been able to construct additional utilities to extend and expand Test Studio's capabilities to locate



dynamic elements on the page and dynamically generate/assign data sources without needing to have highly redundant data files."

THE RESULT

For the QA team, getting started with Test Studio was easy. "The learning curve for Test Studio was not terribly steep, and it didn't take the team long to start authoring tests. Overall, it only took a few months to really ramp-up and feel proficient enough to tackle complex test cases."

Even building complex tests in Test Studio is quick and easy. "Simple tests can be done in 10 to 20 minutes. Complex setups with many steps can take an hour or more to write and verify. On average, the estimation is between 15 to 25 steps, but this depends heavily on the complexity of the test - in some cases it's as high as 90 individual steps."

When tests are complete, the output enables the QA team to quick identify when and how

problems have arisen. "Our favourite feature of Test Studio is its logging, and the most useful data is the comprehensive tree-view of Test List execution that lets us drill down to see which step failed. When the results are not quite specific enough, we've been finding the screen-captures of failures very helpful in determining where issues are arising. We can determine exactly how to reproduce the problem and report this to the developers so they can determine where in the code things are going wrong."

THE VERDICT

Scorpion Software did not expect to save money in the first year of their Test Studio deployment. "We weren't expecting a large ROI in the first year, because we had to invest far more resources in training and rewriting all our tests for Test Studio," says Dana. "However, now that it has been integrated we find that our staffing needs have lessened, saving us around \$75K to \$100K this year when you consider

the fully burdened cost of the people involved."

Test Studio has not only helped keep costs down. Productivity in the QA department has increased dramatically, and this benefited the entire development process. "We catch bugs sooner, which costs us less to fix than it would cost us once we ship. And we do it all with less people. We are testing far more code – almost triple what we had just 2 years ago – with the same number of people."

Will Scorpion Software continue using Telerik Test Studio in future? "Microsoft is offering us their entire test suite for free as part of our Gold competency," says Dana. "Even so, we have decided to stay with Test Studio because we like its simplicity and authoring use."

ABOUT SCORPION SOFTWARE

Scorpion Software solves the obvious problems with passwords that others ignore. They help growing companies reduce their business liability, gain staff accountability, and increase productivity with software that monitors and strengthens access to information onpremise and in the Cloud. Their password management, two-factor authentication, and single sign-on solutions give you complete control and oversight of who accesses what and when - with the added benefit of automating most of the provisioning process for you. Best of all, they're the only security software company offering two-factor authentication and single sign-on for solutions like Office 365, Kaseya and Level Platforms, without the complexity.

ABOUT TELERIK TEST STUDIO

Test Studio by Telerik is the one-stop solution for functional testing, load testing, performance testing and mobile testing. Designed with ease of use as well as power in mind, Test Studio is quick to get started and quick to use. Test Studio provides a common platform for QA and developer teams, deepening collaboration and driving productivity.

ABOUT TELERIK

Telerik is the market-leading provider of end-to-end solutions for application development, automated software testing, agile project management, reporting, and content management across all major Microsoft development platforms. Telerik is trusted by more than 100,000 customers worldwide for its innovation and industrybest technical support.

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