

# Spirent Automation Solution

## Calnex Increases Test Automation 7x Using Spirent iTest

### Customer Challenge

Experts in the test and measurement industry know very well the importance of test automation to the productivity and cost-effectiveness of an enterprise trying to get new products and services to market faster than the competition and with better quality.

Calnex, the world-leader in test and measurement solutions for proving and monitoring the performance and reliability of Ethernet synchronization technologies, learned the hard way that when it comes to automation, you get what you pay for.

In the early days of Calnex, the QA department was forced to find ways to keep costs low by using free-ware test automation tools. But nothing is truly free, and the challenges faced by Calnex ultimately doomed the automation project.

### Challenges Overview:

- The old system was a nightmare; it was difficult to set up and maintain, overall a very unenjoyable experience for the test engineers which lowered team morale.
- The team comprised just one full-time tester, and too often had to “borrow” resources from the development team to execute the automated tests. This resulted in lower productivity for the developers and slowed down delivery of their products.
- Despite the inefficiencies and shortcomings of the third-party tool, it was difficult to overcome the inertia of the existing automation solution. Tests were written, which gave the perception that there must be some value in continuing to use it, even though less than 10% of the total test cases were automated.
- As the company grew and new, more complex products were developed, regression testing became more and more important to product delivery. The lack of test automation became a significant drag.

### Customer Pains

- Free-ware, third-party tools were hard to set up and maintain
- Establishing new test environments took too much time and effort to get working
- Required too many resources and ultimately negatively impacted productivity

## Spirent Automation Solution

### Calnex Increases Test Automation 7x Using Spirent iTest



## Solution Delivery Components

Calnex knew it was time to resolve their testing challenges. Delivery times were impacted, team morale was low, and developers were being used for regression testing instead of developing new products.

Calnex embarked on an integration project to simplify the automation of their products in the Spirent Solution. Once they became familiar with the automation framework, they pursued their own test case automation solution to meet their critical requirements.

Every automation solution has three components that must be balanced and integrated for the solution to be successfully adopted.

- **People**—a well-equipped staff of professionals fully trained in the best practices of test automation
- **Process**—agreed-upon methods for developing and executing tests in an automated lab and test environment, using best practices for test development and test bed orchestration
- **Products**—frictionless tool chain integration that promotes natural test development and execution workflow. Fully integrated and extensible IDE and lab management UX

## Solution Outcome & Benefits

As a result of Calnex's investment into their custom automation solution based on Spirent's iTest IDE, they have been able to expand their test automation from just 10% of their testing requirements to over 75% of testing being fully automated.

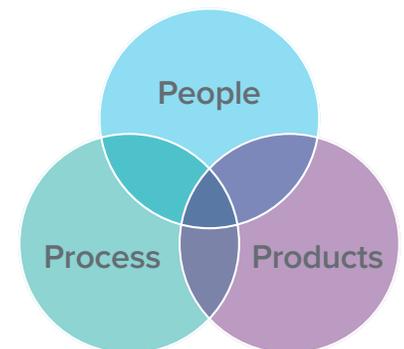
They have also integrated these automated test cases in with their DevOps processes using a Jenkins plugin to kick off the iTest test cases as part of their build process.

Calnex no longer relies on their development teams to provide testing services, and they have grown the Continuous Test Automation team to 5 people, due to the expansive growth in their product lines and overall business. And the processes implemented have helped to standardize their testing best practices.

"The thing we like most about iTest is that we have a single solution in use by all our test people" says Eric Percival, Project Manager, Calnex Solutions, "and we can grow the solution as our team grows, without the challenge of difficult software installations.

### Solution Requirements

- **People**—Trained professionals working closely with the team using test automation best practices
- **Process**—Best practices that optimize & automate testing. TaaS, DevOps, Continuous Test, 100% testbed orchestration and test execution
- **Products**—Frictionless tool chain integration that promotes natural test development and execution workflow. Fully integrated and extensible IDE and lab management UX



## Contact Us

For more information, call your Spirent sales representative or visit us on the Web at <https://www.spirent.com/ContactSpirent>.

[www.spirent.com](http://www.spirent.com)

© 2018 Spirent Communications, Inc. All of the company names and/or brand names and/or product names and/or logos referred to in this document, in particular the name "Spirent" and its logo device, are either registered trademarks or trademarks pending registration in accordance with relevant national laws. All rights reserved. Specifications subject to change without notice. Rev B | 08/18

Americas 1-800-SPIRENT  
+1-800-774-7368 | [sales@spirent.com](mailto:sales@spirent.com)

US Government & Defense  
[info@spirentfederal.com](mailto:info@spirentfederal.com) | [spirentfederal.com](http://spirentfederal.com)

Europe and the Middle East  
+44 (0) 1293 767979 | [emeainfo@spirent.com](mailto:emeainfo@spirent.com)

Asia and the Pacific  
+86-10-8518-2539 | [salesasia@spirent.com](mailto:salesasia@spirent.com)