

Spirent Lab Management Solution

Improves Time-to-Market for a Major Service Provider–Managed Cloud Computing (USA)

Customer Challenge

The customer, a well-known service provider, identified a need for optimizing and future-proofing their test lab management strategy and as a result, had begun independent assessments of different lab management solutions. Upon investigation, the customer realized there would be measurable logistical, budgetary and productivity advantages of a holistically integrated test automation solution with lab management. This would address additional challenges they had originally targeted for a future phase of their testing system upgrade.

Challenges Overview:

With the existing test automation system:

- Management and configuration of test lab resources required lengthy and error-prone manual work flows resulting in delays
- Time-consuming validations jeopardized test schedules and impacted the overall productivity
- Multiple testers and test cases, lacked simplicity of a single test script
- Communication between test development and QA teams was inefficient, reporting of errors and replication of issues affected productivity, impacting release schedules

Solution Delivery Criteria

Spirent Professional Services test automation experts worked closely with this service provider to design, develop and deliver a customized and integrated turnkey solution for lab orchestration and test case automation to meet the following requirements:

- **Products**–Lab management & orchestration of all testing resources; A scalable & stable vendor agnostic automation framework facilitating expanded test case development and coverage as needed; Robust, easy-to-use tool with the appropriate interface & built-in support for validating a wide range of performance testing criteria; Built-in functionality for test result archiving & logging all data to the test reports database
- **Process**–Implementation of lab management & test automation best practices; Capability to optimize & automate testing team members of all skill levels; Ability to quickly isolate & correct issues with rapid response times; Effective & transparent test reporting; Optimized collaboration of all assets between test teams
- **People**–Qualified expertise to deploy the solution & provide engaged consulting for informed use & adoption advocacy for solution success; Post-sales solution training; Support of agnostic off-the-shelf traffic generation tools

Customer Pains

- Outdated lab management; Constrained and outmoded testing resources, heavily manual, time-consuming testing cycles
- Lack of standardized, reusable, scalable and maintainable testing solution
- Absence of coordination between test engineers, all performing numerous test cases on different devices

Solution Requirements

- **Product**–Optimal lab management and configuration; Comprehensive test case automation and easy-to-use generation, centralized report monitoring and storage
- **Process**–Implementation of proven lab management and test automation best practices; Transparent reporting; Optimized team collaboration and asset sharing
- **People**–Professional Services consultation, delivery expertise and training through engagement

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Solution Delivery Components

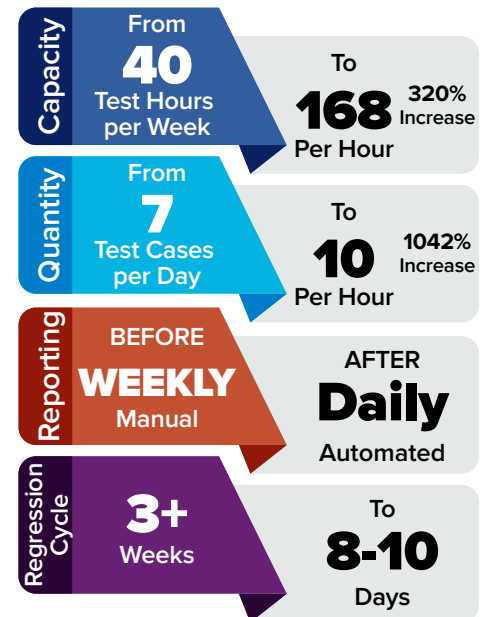
- Proof of Concept (PoC) trials and demonstrations
- Professional Services consultation, adoption advocacy and delivery expertise throughout the engagement
- Spirent Velocity—Software for lab management, including user permissions control and device scheduling; Daily configuration health check
- Spirent iTest—Software for creating new test cases, scheduling test suites; Create and save test cases to be run in reusable batches or individually, with ability to monitor test case progress; Development of automated test cases into a single script test campaign suite
- Training and transfer of solution information of lab management and test automation best practices

Solution Outcome and Benefits

- **Expanded Testing Capacity**—From 8 hours per 5 day week to 24/7 testing
- **Increased Visibility**—With easy-to-run daily health report of lab resources
- **Accelerated Test Case Execution**—From 1 hour per test case to 6 minutes. 7 test cases per day to 10 per hour
- **Optimized Testing and Expanded Testing Complexity**—Achieved with the robust and easy-to-use automation tool enabling automated testing and engineers to write sustainable automated and reusable validation tests
- **Accelerated Comprehensive Test Reporting**—From weekly manual reports to daily automated reporting, resulting in simple-to-perform troubleshooting and rapid issue resolution
- **Faster Release Cycles**—Due to adoption of test suite and best practices producing accelerated validation testing for vendor regression testing cycle reduced from over 3 weeks to an average of 8 to 10 days

With Spirent Automation Solutions
Realize More...

- **Profitability**—Accelerate defect detection, earlier and increase revenue by getting products to market faster
- **Customer Satisfaction**—Reduce released defects with expanded test coverage & speed time to market
- **Productivity**—Automate repetitive tasks and reuse of test cases maximizing time and freeing test team for innovation
- **Visibility**—Increase insight into testing progress and identify resource bottlenecks



“Spirent provided the lab management solution we needed and in the process introduced us to and delivered their test automation solution. Both brought us the value we anticipated and required” — *Cloud Service Provider, Test Lab Director*

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

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