Spirent **DevOps**

A Solution for Continuous Integration, Test, Deployment, & Change Management

The Spirent DevOps solution leverages EVCI, Spirent's unique capability that integrates Continuous Integration (CI) and Continuous Deployment (CD) orchestration tools with Spirent's Continuous Testing (CT) automation and Continuous Change Management (CCM) tools, including iTest and Velocity. The Spirent DevOps solution works with real physical lab systems, or virtualized test systems or a heterogeneous combination of physical and virtualized systems to deliver a highly efficient, scalable on-demand a low-cost build, test and deployment environment.

The DevOps challenge:

Too many organizations who have attempted to implement DevOps CI/CT/CD/CCM capabilities on their own are not seeing the expected ROI. The lack of proven experience and expertise with the tools and process re-engineering needed for efficient DevOps implementations greatly reduces the success rate and results in delays, failures and wasted effort. In addition, capital and operational costs of unsuccessful attempts escalate out of control if the DevOps solution does not make effective use of resource sharing or virtualization technologies. DevOps configurations and workflows are often complex and their implementation demands expertise with multiple orchestration applications and physical and real platforms for CI, CT, CD and CCM. If not implemented correctly the first time, the resulting environments are often fragile and at risk for outages which can disrupt the DevOps process and dramatically increase downtime and costs, threatening an organization's profitability.
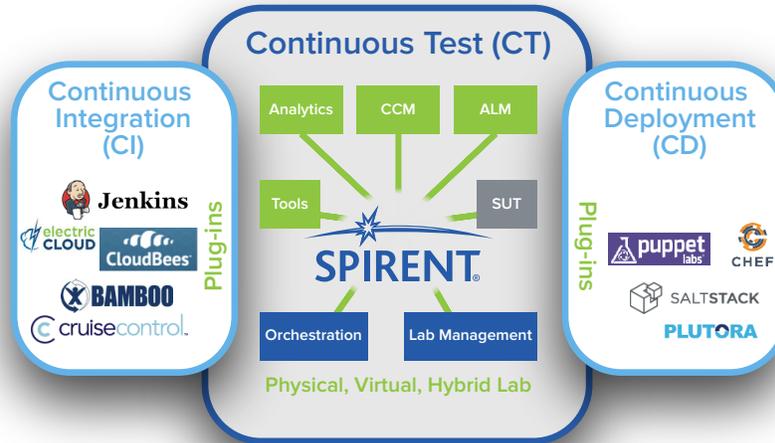
Benefits

Spirent's DevOps Solution dramatically improves build, test and deployment environments, with enhanced process visibility, shorter and controlled development and delivery cycles, while reducing costs and improved quality at the same time.

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Spirent DevOps—Realize more efficient DevOps processes

- **Automated test orchestration**
- **Comprehensive suite of network test tools**
- **Jenkins plug-in CT integration with CI/CD (EVCI)**
- **Physical, virtual and mixed physical/virtual labs**
- **Customized dashboard (DB)**
- **Applications Lifecycle (ALM) integration**
- **Best practices expertise, Professional Services**

DevOps Solution Components

The Spirent DevOps solution delivers:

- Automated test orchestration using iTest and Velocity configured with restful APIs allow the entire testing lifecycle to be automated.
- Comprehensive network tests using Spirent and 3rd party network test tools are automated.
- The EVCI CI/CD orchestration tools (Jenkins is most popular) integration with Spirent CT tools using proven plug-ins greatly simplify the realization of each DevOps implementation.
- Physical, virtual and mixed physical/virtual labs deployments
- Customized dashboard enables DevOps process visibility essential for continuous change management
- Proven ALM integrations support end-to-end traceability for feature development
- Best practices expertise and professional services ensure each DevOps implementation is successful the first time:
  - Capability Assessment Services
    - Analyze existing build, test and deployment environments
    - Assess the existing virtualization, and automation capabilities
  - Virtualization Services
    - Implement new or enhance existing virtualization capability
  - Fully automated CI, CT and CD capabilities powered by EVCI
  - CCM capabilities include visualization capabilities, custom dashboards, reports and email alerts.

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Spirent expertise

Spirent solutions support staff comprises an accomplished team of certified networking and testing automation professionals. Years of training with hands on experience testing and troubleshooting diverse systems, enrich their capabilities.

A founding member of Network Test Automation Forum (NTAF), the standards body for the test and lab automation industry, Spirent automation solutions are delivered with future-proof assurance.

Contact us

For more information, call your Spirent sales representative or visit us on the Web at http://www.spirent.com/about-Us/contact_us.

Realize more with Spirent Automation Platform Technologies

Spirent's APT Solutions are a suite of solutions designed to address the myriad of challenges confronting companies in the IP Network industry. Every company's situation is different, which is why Spirent's approach to helping each customer is unique, but the process for solving problems is at the core of everything we do.

Spirent solutions assist with...

Avoid project delays—Agile product development – New development processes are adopted, but the testing infrastructure is not improved to keep pace. Testers are becoming part of the development team and working in parallel with the developers to create and test products in short iterative cycles. Tests must often be created before the product is ready.

Process integration—Continuous Integration – New deployment tools are being adopted to accelerate deployment of new releases into production. The largest reported challenge facing continuous integration and DevOps teams is the automation of the testing required to ensure readiness for production.

Cost overruns—Expanding product requirements – Being more responsive to customers' demands is critical to any business' success. In an effort to satisfy customers, product release requirements often expand, but the delivery date is not moved.

Improving quality—Growing product complexity – As new features are added exponentially to products, comprehensive testing exceeds the capacity of the existing team

Spirent automation solution suite

Spirent iTest—An integrated test authoring and execution solution for rapidly developing, automating, and maintaining test cases.

Spirent Velocity—A robust virtual/physical testbed orchestration and test case management solution for facilitating lab management and scheduling, as well as, executing and analysis of test cases.

Spirent Professional Services—Provide qualified test experts with hands-on solution knowledge with a deep bench of professionals to deliver solutions.