

Pipeline-Spira Tools Integration QuickStart



INTRODUCTION

As the speed of business increases, it's critical that quality and security are integrated into all aspects of your processes. The Spira toolset, integrated with a DevSecOps pipeline, gives you the tools needed to get rapid feedback and quickly find and fix defects.

The Spira toolset (SpiraTest, SpiraTeam, and SpiraPlan) is a complete requirements, quality assurance (QA), and test management solution that, when integrated with a DevSecOps pipeline, provides full management and visibility of the quality level and security posture of your applications. Key features of an integrated Spira toolset and DevSecOps pipeline solution include:

- Integrated release, build, and deployment visualization
- Requirements to test case to defect traceability
- Test-case to actual-pipeline test integration for available unit, functional, user interface, integration, security, performance, deployment validation, and regression tests
- Dashboards to track requirements coverage, testing progress, test execution status, and requirements regression coverage

The Coveros, four-week, Pipeline Spira QuickStart program is built to ensure that you integrate, configure, and fully utilize the solution to make the most out of your investment.

PIPELINE SPIRA QUICKSTART COMPONENTS:

Review and Improve Release and Requirements Management

During the first phase, Coveros engineers meet with team members responsible for release planning and requirements management. The goal is to understand current practices and brainstorm the best approach to implement requirements and test traceability to releases so that the question, "Are we ready to release?" can be answered with increased confidence.

Integrate Test Management with Requirements Management

A key element of increased confidence on the quality level and the security posture of your application is the validation of functional and non-functional requirements by the DevSecOps pipeline. During the next phase, Coveros engineers work alongside team members responsible for requirements and test management to ensure the relationship between requirements and test strategies supports the validation of each requirement type by a group of quality assurance tests.

Integrated Test Management with Pipeline Tests

To assure that the true quality level of your application is reflected in the Spira toolset, Coveros engineers next work with your quality assurance automation and pipeline infrastructure team to create an architecture that facilitates the creation of relation-

ships between Spira test cases and actual pipeline tests. This includes available:

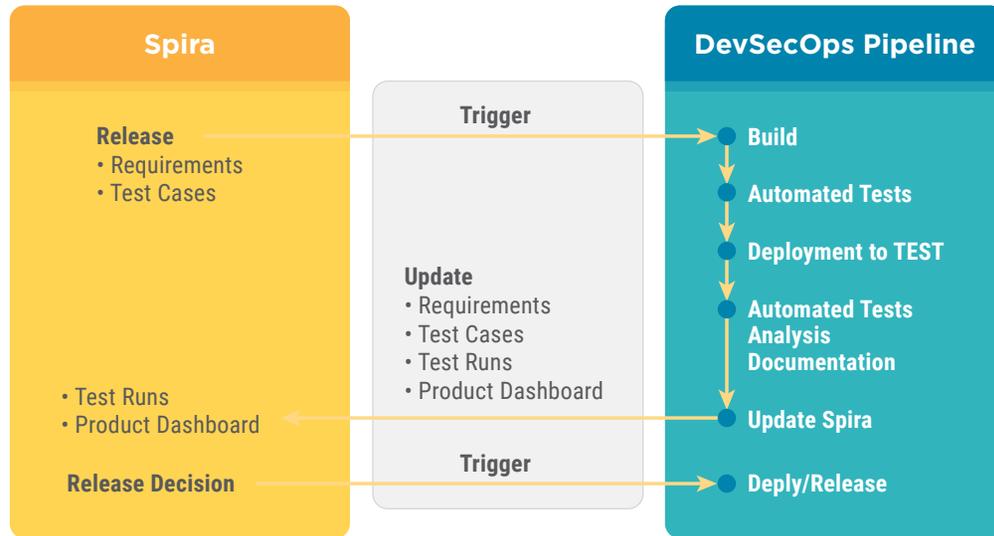
- Unit tests
- Functional test
- User Interface tests
- Integration tests
- Security tests
- Performance tests
- Deployment validation tests
- Regression tests

Integrate Pipeline Results to the Spira Toolset

Once the pipeline runs, builds are deployed, and tests are run, we bring back the results to Spira toolset and update the dashboards. At this point, Coveros engineers work with your team to ensure build, deployment, and test results are brought back to your Spira tool correctly and the corresponding artifacts are updated.

Our integration will create Spira test runs under the appropriate test cases and allow you to access the detailed information created by the execution of pipeline tests through specially-created hyperlinks to pipeline reports. The information presented on the Spira artifact list for releases, requirements, test cases, and test runs are updated. Spira dashboard widgets updated include:

- Requirement coverage
- Testing progress
- Test execution status
- Requirements regression coverage



Training

As we develop the integration, Coveros engineers work alongside your team members transferring process, skill, and tooling knowledge so that your team can configure and operate the integration and maximize the return on your investment.

Improvement Recommendations

At the end of the QuickStart, Coveros will provide a set of recommendations for improving:

- Test Automation
- Use of standards and processes to improve agility
- Implementation of quality gates
- Deployment to staging
- QA on Staging
- Inflectra product use

PIPELINE-SPIRA INTEGRATION QUICKSTART SUMMARY

The Spira toolset manages releases, requirements, and tests in one environment, with complete traceability. DevSecOps pipelines provide you with a set of tools, technologies, and automated processes that enable your teams to consistently build, test, and deploy software meeting quality and security requirements.

The Pipeline-Spira Tools Integration QuickStart is a four-week engagement to successfully integrate your pipeline into your Spira toolset so you can get rapid feedback, quickly find and fix defects, and make release decisions based on the actual quality level and security posture of your applications.

ABOUT COVEROS

Founded in 2008, Coveros helps organizations accelerate the delivery of secure, reliable software. Our cutting-edge services help organizations assess and improve their software development, application security, and software quality processes.

Our clients include such leading organizations as: Abiomed, Genworth, Cook Medical, Schlumberger, Mutual of Omaha, US ICE, BC/BS, TSA, FNMA, Travelers, Gridpoint, Exxon, Appian, United Healthcare, CMS, and more. Coveros is headquartered in Northern Virginia with consultants nationwide.

To learn more about Coveros, visit www.coveros.com.

ABOUT INFLECTRA

Founded in 2006, Inflectra offers powerful software testing tools and project management software for automated project management, quality assurance, and test management. We strive to produce applications that are highly reliable, rich in functionality, and easy to use.

We serve industry leaders like Liberty Mutual Insurance, the United States Navy, Adventist Health System, Northrop Grumman, Leica Biosystems, Morningstar, and Georgia Tech Research Institute. Inflectra is based in the Silver Spring area of the Washington, DC metropolitan area.

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