inf<u>lectra</u>®

A WhitePaper

10 MUST-HAVE SOFTWARE FEATURES

For Quality And Regulatory Compliance

SpiraPlan: Making Mission-Critical Systems
Deliver Every Day

Table Of Contents

IU Must-Have Software Features For Quality & Compliance in Regulated Industries	3
What Is SpiraPlan?	5
SpiraPlan: A Solution Designed For Your Industry	6
SpiraPlan Differentiators	8
SpiraPlan: A Deep Dive	9
SpiraPlan Integrations	23
The Inflectra Promise	24

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We all live in a society governed by regulations; whether we know it or not, we interact with and are affected by regulations almost daily. Regulations are a set all-caps rules in the playbooks of the healthcare, motor vehicle manufacturing, aviation, telecommunication, financial industries, etc. Each of these is tightly regulated and faces a concrete set of constraints.

Regulation may limit the speed and extent of "disruption" but companies that embrace regulation and still manage to innovate outperform those that view it simply as a limitation.

In heavily regulated industries, the testing and validation of processes, software and hardware, and management and proper maintenance of data can be overwhelming. Keeping track of international standards, industry-specific rules and regulations, documents and reporting requirements is an enormous task. Regulation and compliance turn to risks only if they are not adhered to and maintained.

Heavily regulated companies still can create agile processes that comply with regulations while bringing to the market innovative products that are valued by customers, stakeholders, and regulators.

Here are 10 critical software capabilities that companies need to invest in to deliver, innovate and succeed in regulated industries:

10 Must-Have Software Features For Quality & Compliance in Regulated Industries

1. Project & Portfolio Management

Integrated project and program management that let you manage your programs, projects and portfolios.

2. Risk Management & Mitigation

Fully integrated enterprise risk management capabilities that let you manage risks across the organization. .

3. Security & Data Privacy

Powerful security and privacy support to ensure your data is secure, whether you choose to deploy on-premise, air-gapped or oin the secure cloud.

4. Requirements Verification

Integrated requirements and test management platform lets you manage and test all of your requirements, policies and regulations.

5. Test Step Traceability & Compliance

End-to-end traceability from the requirements, to test steps, test cases, defects, development work items, source-code and resources.

6. Validation & Testing

Streamlined workflows and testing for integrated validation of the whole system.

7. Electronic Signatures

A facility for CFR 21, Part 11 electronic signatures that is tightly integrated with customizable workflows to ensure compliance.

8. Audit Trails & Reporting

Automatic maintenance of secure audit logs of all actions in the system, with customizable reporting on all activities for regulators and management.

9. Automated Testing

Automation to manage test scenarios and scripts directly from your running applications.

10. Robotic Process Automation

Automation of common business processes using a mixture of traditional workflow automation API calls and user interface robotic process automation (RPA).

What Is SpiraPlan?

SpiraPlan by Inflectra is an Agile Program Portfolio Management system with baked-in modules for QA, Agile project management and DevOps for teams. Available both onpremise and cloud-hosted, SpiraPlan is the most feature-complete solution for managing mission-, safety- and business-critical applications and embedded systems in regulated industries.

SpiraPlan: Out-Of-The-Box Functionality

- Enterprise-level agile software development, planning and management
- A complete QA suite with bug, issue and task tracking
- Program, Portfolio and Enterprise Management
- Project Risk management
- Management of project requirements, user stories and use cases
- Baselining with robust configuration management and version control
- Resource Management
- Management of Source Code and IDE Integration with native code difference viewing
- Instant messaging and work collaboration

SpiraPlan: A Solution Designed For Your Industry

Energy & Industrial

SpiraPlan helps you test and validate critical systems for operational and regulatory compliance and public safety. Whether is it Energy, Manufacturing or Utilities, SpiraPlan will help to harness remote data collection, test your systems and ensure compliance with ISO, NIST, ICS NERC-CIP regulations.

Aviation & Aerospace

SpiraPlan helps you develop quality airborne systems and manage testing and compliance activities to perform reliably in an airborne environment. In the strictly regulated aviation industry in the USA, SpiraPlan makes mission-critical systems deliver in accordance with FAA's guidelines (DO-178C) for software reliability in an airborne environment.

Financial Services

SpiraPlan helps you develop, test and manage business-critical systems, ensuring security across development, regulatory compliance, and risk mitigation. In Financial Services systems' regulators want to ensure that controls, processes and technologies for managing changes to the system are developed, tested and documented which is where SpiraPlan performs well.

Healthcare

SpiraPlan helps you manage safety-critical systems and medical devices, validate patient systems, with approval workflows and electronic signatures. When developing medical devices or information systems, SpiraPlan helps you ensure that the testing and validation procedures meet the requirements of the FDA / EMA and specifically 21 CFR Part 11.

Government & Defense

SpiraPlan helps you test and build quality critical systems, guaranteeing reliability with secure code, end-to-end traceability, reporting and data security.

Explore how SpiraPlan can help advance IT Management and compliance with government regulations, including with OMB exhibit 300 as well as DOD 500.

Telecommunications

SpiraPlan helps manage, plan and test networks and systems to ensure reliability, performance and compliance with ITU/ITRs. The rollout of ever-faster 5G networks is changing the mobile landscape and global networks. With wireless networks increasingly replacing fixed broadband, and the adoption of the Internet of Things (IoT), organizations using SpiraPlan will be able to reliably innovate.

SpiraPlan Differentiators

General:

- Deployment: AWS or private cloud; Air-gapped on-premise
- Licensing: concurrent licensing model
- Contracts: monthly, annual and multi-year contracts
- Payment: multiple payments methods (incl., gov't procurement)
- Access: Unlimited storage, API calls, projects, programs,
- Random: Dark Mode. OAuth & Odata

Free With SpiraPlan Purchase:

- **Support**: 1 year unlimited support (incl., phone, email)
- **Environment**: Over 60 plugins and integrations; Migration paths from legacy and modern tools
- Adoption: Limited in-person training; Getting Started Videos, Documentation; Dedicated account manager
- Add-on: Source Code Management Tool TaraVault

Additional Inflectra Services:

- Migration: Quick and easy migration from on-premise installation to Inflectra's secure cloud and vice-versa
- Implementation Services: migration assistance, workflow setup, platform customizations, consulting help, etc
- Training: Live (in-person, virtual); on-demand/pre-recorded.

SpiraPlan: A Deep Dive

Project Management Capabilities of SpiraPlan

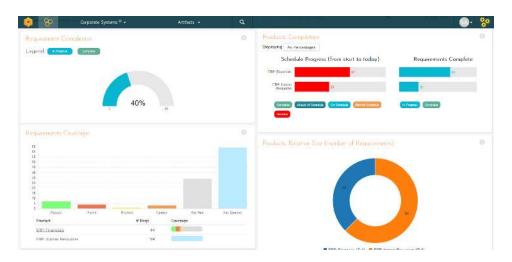
Project Management

SpiraPlan projects come with dashboard home-pages that summarize the information into a comprehensive, easily digestible form with a "one-stop-shop" view of the overall status of the project at a glance. It contains summary-level information for all types of artifact (requirements, test cases, incidents, etc.) that you can use to drill-down into the appropriate section of the application.

Program Management

SpiraPlan recognizes that projects are usually part of larger initiatives. SpiraPlan includes program management and program planning features that let you plan and execute multiple projects in parallel, with tools to help you keep track of the progress, milestones, and inter-project dependencies.

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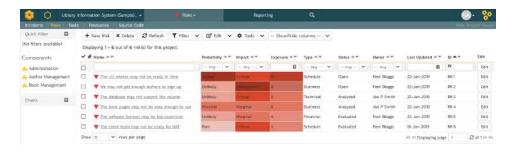
Portfolio Management

SpiraPlan includes rich Project Portfolio Management (PPM) functionality that lets you analyze and collectively manage your projects and programs in a centralized place. SpiraPlan lets you identify the fastest, cheapest, and most suitable approach to deliver your projects and programs.

Risk Management

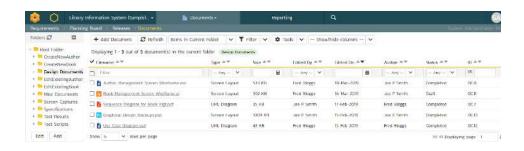
SpiraPlan includes an enterprise risk management system that is fully integrated with the requirements and project management features. The risk management module lets you identify, analyze, treat, and monitor risks with support for risks, mitigations, tasks and risk cubes.

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Document Collaboration

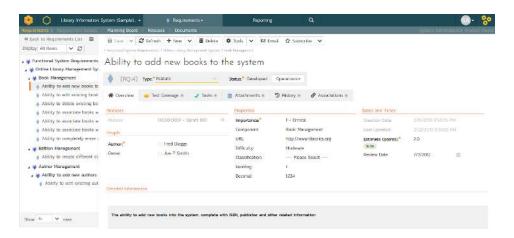
SpiraPlan includes an integrated web-based document management system to upload documents in a secure, centralized location, with support for folder organization, documentation taxonomies and meta-tagging as well as built-in version control. These documents can be connected to SpiraPlan artifacts (requirements, tasks, incidents) to provide the complete picture to users.



Planning Scheduling

Requirements Management

SpiraPlan lets you easily manage your requirements and user stories in an integrated requirements matrix. These requirements can be validated with the end customer and then elaborated into more detailed tasks that can be used as the basis for development.



Release Planning

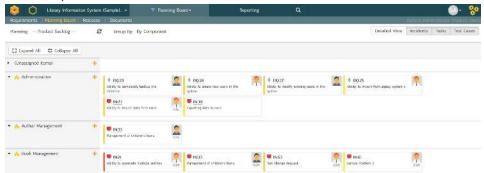
SpiraPlan provides the ability to manage the list of releases / versions of the software being developed. Each of the releases can be broken down into smaller units of work called Iterations or Sprints. SpiraPlan includes integrated resource estimation capabilities so that you can plan out the team size needed for each iteration.

Iteration/Sprint Planning

SpiraPlan lets you plan the work to be accomplished in each Iteration/Sprint. You can include requirements, tasks and defects - allowing you to determine the schedule impact of addressing critical issues as well as pre-planned features.

Planning Board

SpiraPlan helps business and technical teams work together to develop the sprint plan for the iterations, breaking up the features into discrete tasks and assigning the tasks to the individual team members. During development SpiraPlan will track changes in the actual effort to determine if the plan needs to be rebalanced to ensure on-time, on-budget delivery.



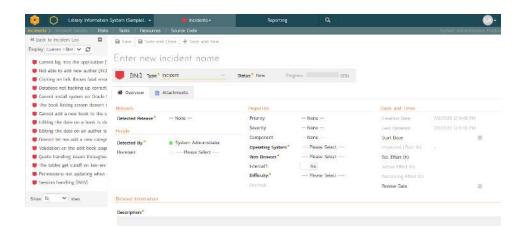
Resource Management

SpiraPlan lets you schedule the team members and load balance the task resourcing allocations. As team members work on their assigned tasks they can update their progress in terms of actual and remaining effort. This provides project managers with real-time visibility on the progress of the iteration and early indications of schedule overrun.

Tracking Reporting

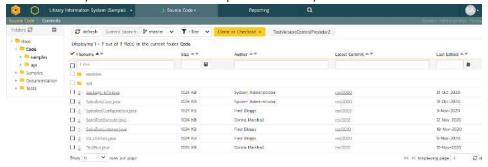
Bug Tracking

Looking for a better way to track bugs and issues? SpiraPlan offers a complete bug tracking solution that is fully integrated with your planning system. Bug tracking features include support for customizable workflows and fields, flexible reporting, configurable email notifications, and fully editable statuses, priorities, severities and bug types.



Source Code Management

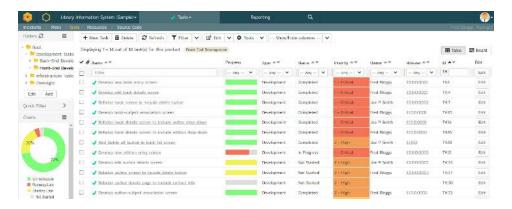
SpiraPlan includes powerful Software Configuration Management (SCM) module so that you can connect and browse source repositories within the platform. By linking commits in the code repositories to other artifacts, SpiraPlan can provide code-level traceability of changes. This gives unparalleled traceability across the development lifecycle.



Task Management

SpiraPlan includes a robust task management system that lets users define tasks, categorize into types, organize by folder, assign to team members, and track the progress until completion.

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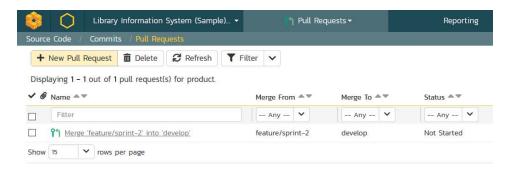
Build Management

SpiraPlan provides the ability to integrate with continuous integration build servers such as Hudson and CruiseControl so that the status of builds can be recorded in SpiraPlan and linked to source code revisions and incidents. This provides traceability for each build, so that you can see what was changed in each build, what was tested and what was fixed.



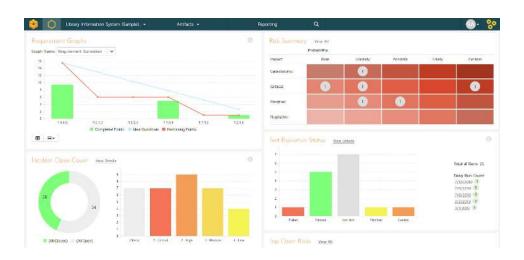
Pull Requests & Code Reviews

SpiraPlan lets you manage your software development activities and workflows with ease. You can create pull requests (also known as merge requests) to track code branches ready for review. Using the tracking and commenting features, developers can collaboratively review the code and approve the merge into the main development branches.



Reporting

SpiraPlan includes an extensive library of printable reports and graphical charts. The reports can be customized through extensible XML based report templates. The supported report formats include: MS-Word, MS-Excel, HTML, Adobe Acrobat and MS-Project.

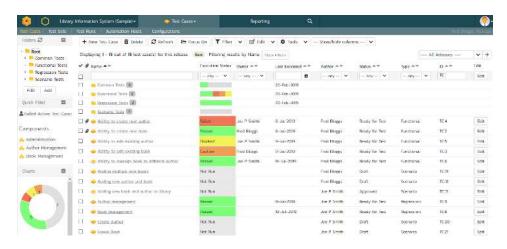


Quality Assurance

Test Case Management Tools & Software

Tired of managing your project requirements and test cases in documents and spreadsheets. Empower your testing team and throw off the shackles of outdated methods, SpiraPlan offers unparalleled functionality and usability combined with our award-winning technical support. Available as an on-premise installation or hosted service.

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Manual Testing

SpiraPlan provides the ability to execute groups of test cases using an easy-to-use test execution wizard that allows you to mark each step as pass/fail and optionally record a bug / defect. This provides complete traceability from a recorded defect to the underlying requirement.

Automated Testing

With RemoteLaunch for SpiraPlan you can setup automated test cases in SpiraPlan and schedule them against a master list of automation hosts for execution on either the local computer or remote machines. Available Plug-ins include: QuickTest Pro, TestComplete, Squish, Selenium and Command-Line.

Exploratory Testing

SpiraPlan includes a dedicated exploratory testing mode where you can create and edit your tests on the fly during testing. It also includes tools for tracking follow-up activities between the developers and testers.

Baselining

SpiraPlan provides powerful baseline management features that allows you to have robust configuration management and version control of the artifacts in your projects and products. This makes SpiraPlan especially well suited for managing requirements, test cases and other artifacts on more complex systems and engineering projects.

Other

Customization

Customization and configuration are critical for ensuring that a system integrates seamlessly with your business processes. SpiraPlan can be configured and customized without any coding or scripting. You can create custom properties throughout the system, customize all the incident fields (status, priority, severity, etc.), create customized email templates, and configure custom workflows for managing your lifecycle.

Administration

SpiraPlan has an extensive administration capability that can be accessed using just a web-browser. To reduce the burden on IT staff, you can delegate project administration to different users, allowing project managers to be self-sufficient.

IDE Integration

SpiraPlan maximizes efficiency and improves productivity of developers by allowing them access their SpiraPlan information directly within their existing IDE.

Email Integration

SpiraPlan has powerful email integration capabilities that ensure that all users are notified about changes in the system, and allows users to raise incidents and post comments directly from their email system.

Data Migration

Using our Add-Ins for Microsoft Word, Excel and Project you can easily import requirements, test cases, releases and incidents from your existing templates. In addition SpiraPlan comes with an import wizard for easily migrating from many legacy tools.

SpiraPlan Integrations

SpiraPlan comes with over 60 integrations and more are added monthly. The inflectra Dev Team works regularly with our customers to build integrations and plugins that fit our customers' needs and make their lives easier.

Here is a sample of Inflectra's most popular integrations:



The Inflectra Promise

Easy To Migrate

It's super easy to switch to the Inflectra Platform. Migrate your legacy data, documents, spreadsheets, date exports, and more.

Free Trials

No credit cards, no contracts, no hassles. You can trial all of Inflectra products in the cloud or on your own servers, and all for 30 days.

Service You'll Love

Best practices are baked into every product, dozens of integrations, common sense options, first-class support every time.

This is why our customers love about working with Inflectra.

Take SpiraPlan for A Spin Now!

About Inflectra

Founded in 2006, Inflectra is a market leader in software test management, test automation, application lifecycle management, and enterprise portfolio management space. The company is headquartered in the USA but has offices in 12 countries. Known globally for its legendary customer support, Inflectra makes turn-key solutions that address many challenges in software testing and QA, test automation, and product lifecycle management. Its methodology agnostic software tools are used in regulated industries where portfolio management, requirements traceability, release planning, resource management, document workflow, baselining, and enterprise risk analysis are required.

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