



SpiraTeam[®] | Build Server Integration Guide
Inflectra Corporation

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1. Introduction

SpiraTeam® is an integrated **Application Lifecycle Management** (ALM) system that manages your project's requirements, releases, test cases, issues and tasks in one unified environment:

SpiraTeam® contains all of the features provided by SpiraTest® - our highly acclaimed **test management system** and SpiraPlan® - our **agile project management** solution. With integrated customizable dashboards of key project information, SpiraTeam® allows you to take control of your entire project lifecycle and synchronize the hitherto separate worlds of development and testing.

SpiraTeam® includes the ability to integrate with a variety of continuous integration / automated build servers so that the results of automated builds can be displayed in SpiraTeam linked to the associated release or iteration. In addition, the results of automated tests and source code operations can be linked to the build events, providing traceability from a specific build to the bugs that were fixed, tests that were run and source code files that were modified.

This guide outlines how to integrate and use SpiraTest, SpiraPlan and SpiraTeam in conjunction with various build servers commonly used by software development teams. This guide assumes that the reader is familiar with both SpiraTeam and the appropriate build server being discussed. For information regarding how to use SpiraTeam, please refer to the *SpiraTeam User Manual*.

2. Integrating with Jenkins / Hudson

This section outlines how to use SpiraTest, SpiraPlan or SpiraTeam (hereafter referred to as SpiraTeam) in conjunction with either the Jenkins or Hudson (hereafter referred to as Jenkins) continuous integration build servers. It assumes that you already have a working installation of SpiraTest, SpiraPlan or SpiraTeam v3.2 or later and a working installation of Jenkins/Hudson v1.405 or later. If you have an earlier version of SpiraTeam, you will need to upgrade to at least v3.2.

2.1. Overview

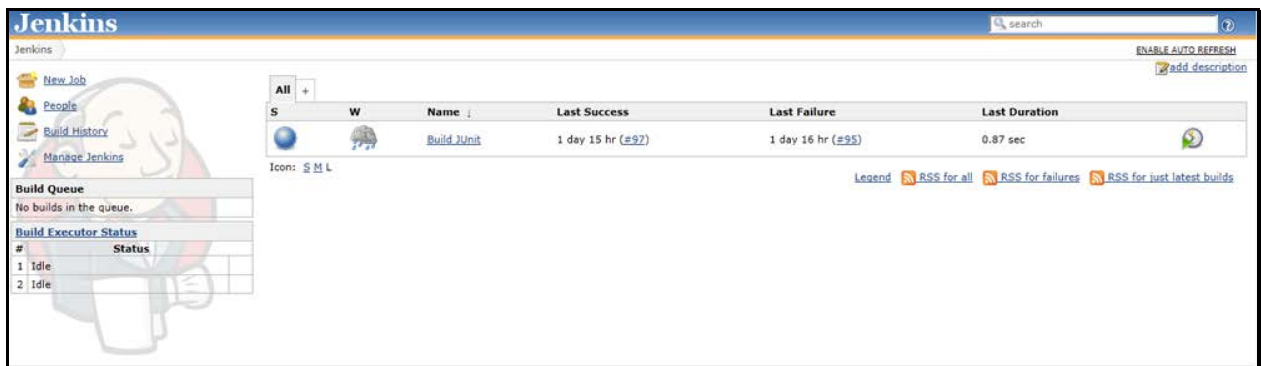
Jenkins provides continuous integration services for software development, primarily in the Java programming language. It is a server-based system running in a servlet container such as Apache Tomcat. It supports SCM tools including CVS, Subversion, Git, Mercurial, Perforce and Clearcase, and can execute Apache Ant and Apache Maven based projects as well as arbitrary shell scripts and Windows batch commands.

When you use the SpiraTeam plugin for Jenkins, it will allow you to associate each Jenkins project with a corresponding project and release in SpiraTeam. Then, each time Jenkins creates a new build, a new build artifact will be created in SpiraTeam. Each build in SpiraTeam will be automatically linked to the incidents fixed, source code revisions committed, and any SpiraTeam tokens in the Jenkins changelog will be parsed and turned into SpiraTeam artifact hyperlinks.

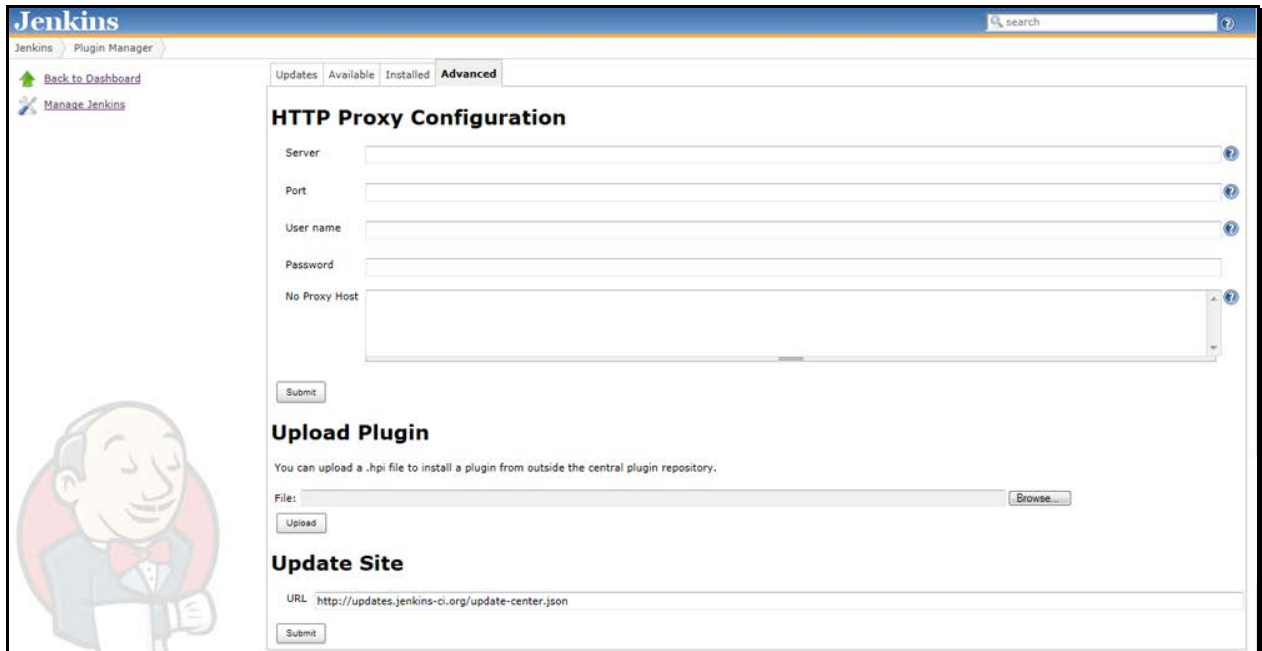
2.2. Installing the SpiraTeam Plug-in for Jenkins

Go to the Inflectra website and open up the page that lists the various downloads available for SpiraTeam (<http://www.inflectra.com/SpiraTeam/Downloads.aspx>). Listed on this page will be the SpiraTeam Plug-In for Jenkins. Right-click on this link and save the Zip compressed folder to a temporary location. Open up the compressed folder and extract the `spira-plugin.hpi` file contained inside.

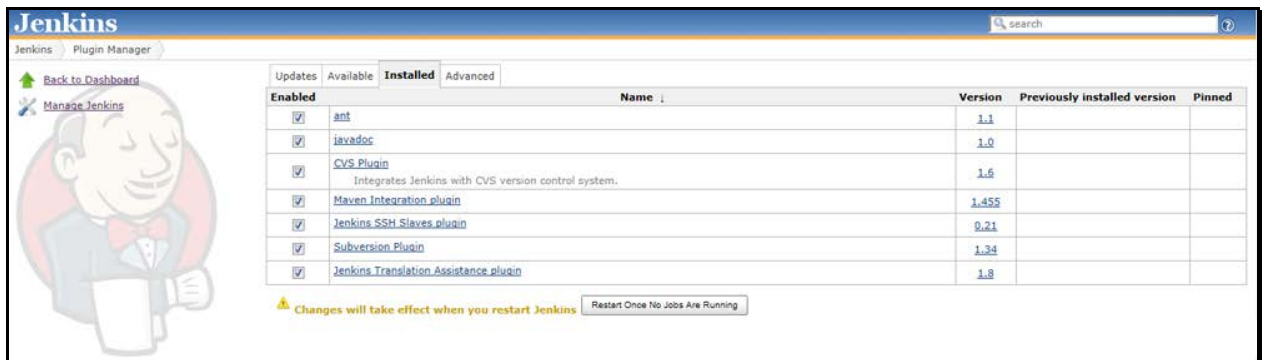
Now open up a web browser and connect to your Jenkins server:



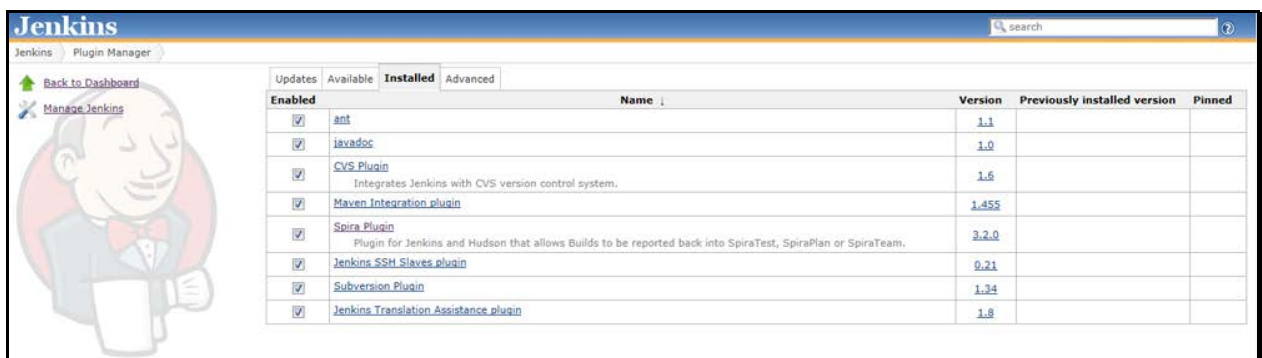
Click on the "[Manage Jenkins](#)" hyperlink, following by the "[Manage Plugins](#)" hyperlink. That will bring up the page that displays all the currently loaded plugins. Click on the "Advanced" tab:



Now you can click on the [Browse] button next to the section that lets you upload a new plugin to the server. Navigate to where you saved the `spira-plugin.hpi` plugin file and upload the SpiraTeam plugin into Jenkins. Once that has completed, click on the “Installed” tab to display the list of installed plugins:



You will see an option to Restart Jenkins and load any recently added plugins. Click on this button and Jenkins will automatically restart once all pending jobs have been completed. Once Jenkins has restarted, you will now see the SpiraTeam plugin listed as one of the installed plugins:



2.3. Setting-Up the SpiraTeam Jenkins Plug-in

Now that the plugin has been installed, you need to go back to the Jenkins homepage and click on the “[Manage Jenkins](#)” hyperlink followed by the “[Configure System](#)” hyperlink. This will bring up the main Jenkins configuration page. Scroll down to find the “**Spira Integeration**” section:



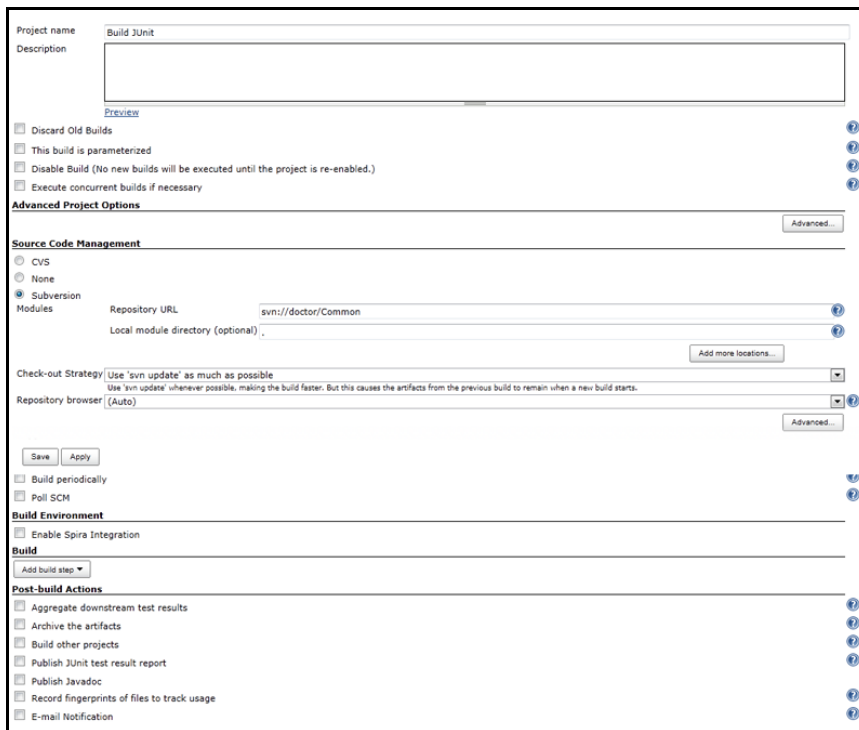
Spira Integration	
Spira URL	<input type="text" value="http://localhost/SpiraTeam"/>
Username	<input type="text" value="fredbloggs"/>
Password	<input type="password" value="*****"/>
<input type="button" value="Test Connection"/>	

Enter in the **URL** you use to access your instance of SpiraTeam, together with a valid **username** and **password**. Once you have entered the values, click on the [Test Connection] button to verify that Jenkins can connect to SpiraTeam successfully.

Once it has connected successfully, click the [Save] button at the bottom of the screen to save your connection settings.

2.4. Configuring a Jenkins Job

Now that you have setup the global SpiraTeam settings in Jenkins, next you need to associate each of your Jenkins Jobs with their corresponding SpiraTeam Project and Release/Iteration. To do this, click on the name of the Jenkins Job and then click on the “Configure” hyperlink for that Job:



Project name: Build JUnit
Description: [Empty text area]
[Preview](#)

Discard Old Builds
 This build is parameterized
 Disable Build (No new builds will be executed until the project is re-enabled.)
 Execute concurrent builds if necessary

Advanced Project Options

Source Code Management

CVS
 None
 Subversion

Repository URL:
Local module directory (optional):

Check-out Strategy:
Use 'svn update' whenever possible, making the build faster. But this causes the artifacts from the previous build to remain when a new build starts.

Repository browser:

Build periodically
 Poll SCM

Build Environment

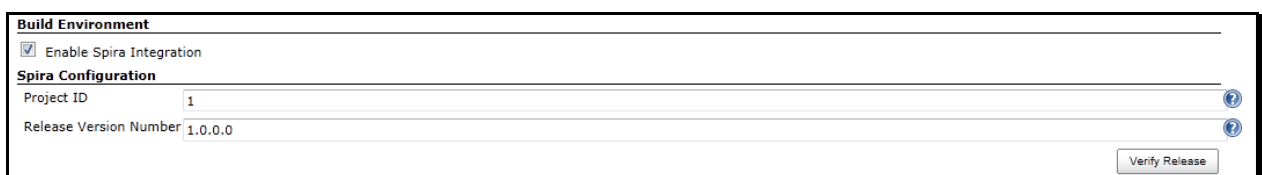
Enable Spira Integration

Build

Post-build Actions

Aggregate downstream test results
 Archive the artifacts
 Build other projects
 Publish JUnit test result report
 Publish Javadoc
 Record fingerprints of files to track usage
 E-mail Notification

Under the section “**Build Environment**” select the checkbox marked “**Enable Spira Integration**”. That will display the SpiraTeam configuration panel for this Job:



Build Environment	
<input checked="" type="checkbox"/> Enable Spira Integration	
Spira Configuration	
Project ID	<input type="text" value="1"/>
Release Version Number	<input type="text" value="1.0.0.0"/>
<input type="button" value="Verify Release"/>	

Now you need to enter the following values:

- **Project ID** – The numeric ID of the SpiraTeam Project that the Build belongs to. (e.g. for Project PR00001 just enter 1)
- **Release Version Number** – The version number of the SpiraTeam Release/Iteration that the Build belongs to. (e.g. for Release RL0004 with version number 1.0.0.0 you'd enter just 1.0.0.0)

Once you have entered in the Project ID and Release version number, click the [Verify Release] button and the plugin will connect to SpiraTeam and verify that the project exists, that the current user can connect to that project, and that the specified release/iteration exists in the project.

Once it has verified successfully, click the [Save] button at the bottom of the screen to save your Job configuration settings. You are now ready to use Jenkins with SpiraTeam.

2.5. Viewing the Build Results in SpiraTeam

Now that you have associated your Jenkins job with a specific SpiraTeam project and release/iteration, you can now use Jenkins to manage your software builds and have the results of the build be reported back into SpiraTeam. For example when the 'Build JUnit' job illustrated in the previous section is executed, it will report back the following result in Jenkins:

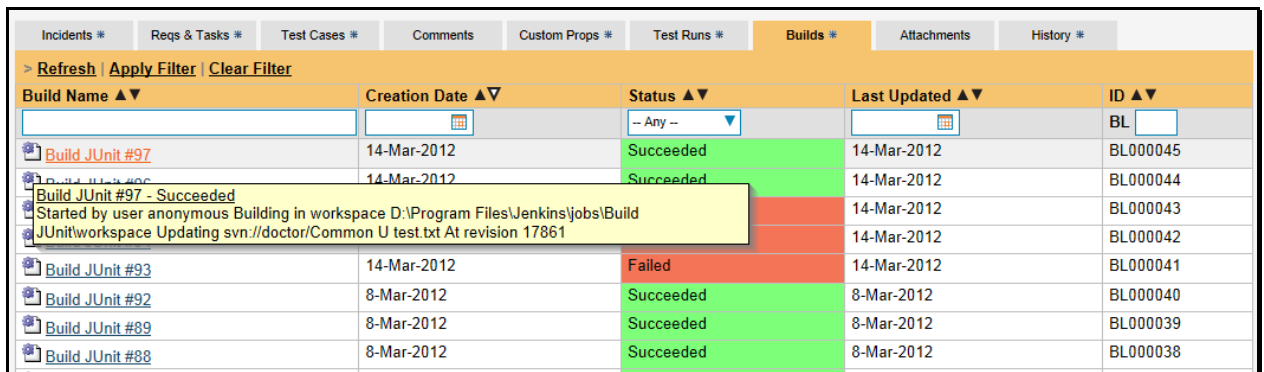


The screenshot shows the Jenkins job configuration page for 'Build JUnit'. The table below summarizes the visible data:

S	W	Name ↓	Last Success	Last Failure	Last Duration
		Build JUnit	1 day 18 hr (#97)	1 day 18 hr (#95)	0.87 sec

Additional elements include: 'All +' button, 'add description' link, 'Icon: S M L' text, and RSS feeds for 'all', 'failures', and 'just latest builds'.

The corresponding build entry will also be created in SpiraTeam under the specified project and release/iteration:



The screenshot shows the SpiraTeam 'Builds' tab with a table of build entries. A tooltip is visible over the 'Build JUnit #97' entry.

Build Name ▲▼	Creation Date ▲▼	Status ▲▼	Last Updated ▲▼	ID ▲▼
<input type="text"/>	<input type="text"/>	-- Any --	<input type="text"/>	BL <input type="text"/>
Build JUnit #97	14-Mar-2012	Succeeded	14-Mar-2012	BL000045
Build JUnit #96	14-Mar-2012	Succeeded	14-Mar-2012	BL000044
Build JUnit #97 - Succeeded				
Started by user anonymous Building in workspace D:\Program Files\Jenkins\jobs\Build JUnit\workspace Updating svn://doctor/Common U test.txt At revision 17861				
Build JUnit #93	14-Mar-2012	Failed	14-Mar-2012	BL000041
Build JUnit #92	8-Mar-2012	Succeeded	8-Mar-2012	BL000040
Build JUnit #89	8-Mar-2012	Succeeded	8-Mar-2012	BL000039
Build JUnit #88	8-Mar-2012	Succeeded	8-Mar-2012	BL000038

If you have configured your Project Home to include the list of recent builds, the build information will also be displayed on the Project Home dashboard:

Recent Builds		
Name	Status	Creation Date
Build JUnit #97	Succeeded	3/14/2012 3:34:02 PM
Build JUnit #96	Succeeded	3/14/2012 3:33:15 PM
Build JUnit #95	Failed	3/14/2012 3:31:33 PM

Build JUnit #96 - Succeeded
 Started by user anonymous Building in workspace D:\Program Files\Jenkins\jobs\Build JUnit\workspace Updating svn://doctor/Common At revision 17860 no change for svn://doctor/Common since the previous build

Clicking on either of the hyperlinks will allow you to navigate to the Build details page inside SpiraTeam:

The screenshot shows the SpiraTeam interface. At the top, there's a navigation bar with 'My Page', 'Project Home', 'Planning', 'Testing', 'Tracking', and 'Reporting'. Below that, a breadcrumb trail shows 'Requirements | Releases > Build Details | Iterations | Planning Board'. The main content area is titled 'Build: Build JUnit #97 [BL:000045]'. It displays the build name, description, status (Succeeded), creation date (3/14/2012 3:34:02 PM), and last updated date (3/14/2012 3:34:04 PM). Below this, there are tabs for 'Incidents', 'Revisions', and 'Test Runs'. The 'Incidents' tab is active, showing a table with columns for Incident Name, Type, Status, Priority, Detected By, and Creation Date. One incident is listed: 'Cannot add a new book to the system' with a status of 'Assigned' and a priority of '1 - Critical'.

This page will display the status (success / failure) and details of the build (from the Jenkins Console Output) together with a list of the associated incidents, test runs and source code revisions. The following section will explain how to use your Source Code Management (SCM) system to take advantage of the SpiraTeam plugin and automatically link incidents and source code revisions to the build information.

2.6. Working with Source Code Changesets

When your developers commit changes to your application's source into the SCM repository, they should make sure to link the commit to the appropriate artifacts in SpiraTeam. For example they may want to record that the revision fixes a specific incident or implements a specific feature (requirement).

Linking an artifact is very simple. All the developer needs to do is enter the artifact token in the following format:

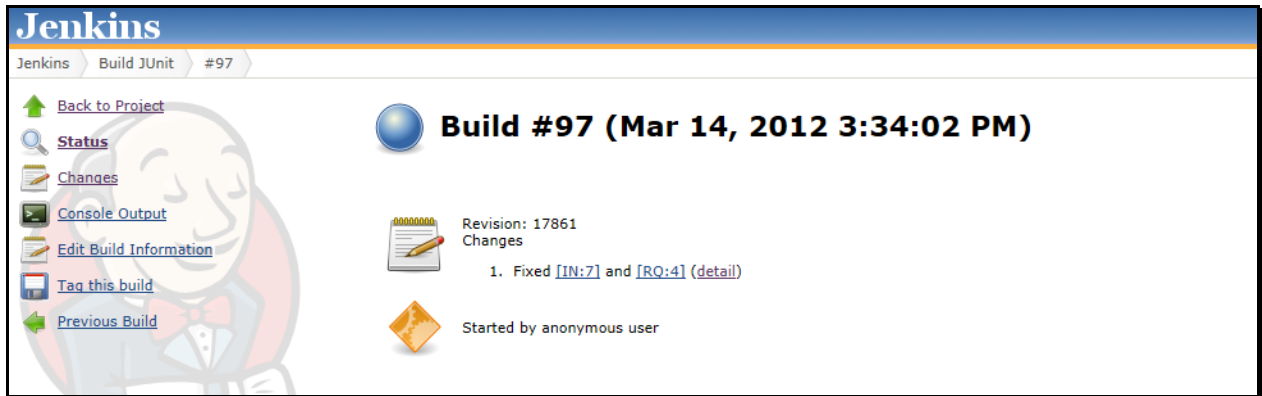
[PREFIX: ID]

The first half, the Artifact Identifier, is a two-letter code that is used throughout SpiraTeam, and is visible on almost every page in the application. For example, a requirement's identifier is "RQ". Incidents are "IN", and tasks are "TK". The artifact ID is the number of the artifact. So by creating a commit message that reads:

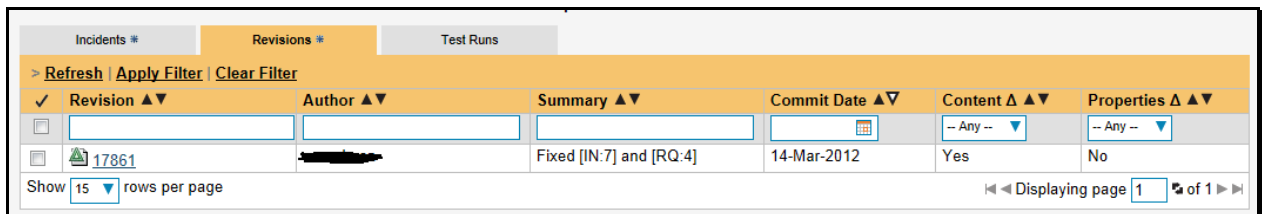
Due to requirement [RQ:12], the code for .toString in class XMLparser was modified. This also fixed Incident [IN:1034].

SpiraTeam will automatically detect the tokens and will include links to them under the Associations tab for each revision detail in SpiraTeam.

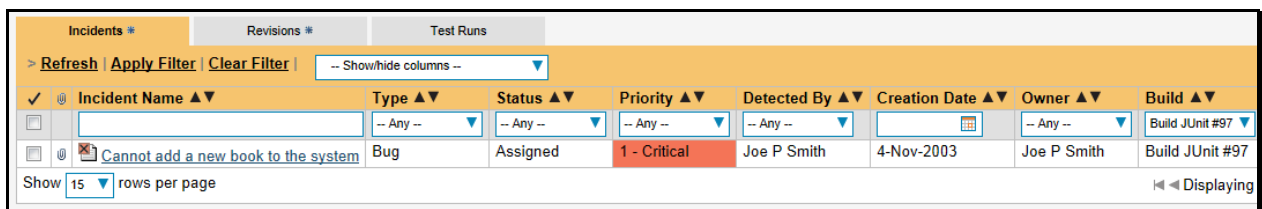
In addition, when Jenkins creates the next build (that includes this revision), the plugin will automatically parse the revision message and convert the tokens into hyperlinks to the corresponding SpiraTeam artifact. That way, when developers view the build changelog in Jenkins, it will automatically include links to the SpiraTeam items:



Meanwhile, inside SpiraTeam, the system will use the same information to automatically link the list of associated revisions to the build record:



If the commit message contains Incident tokens, the plugin will also automatically link those incidents to the appropriate build:



Similarly when you view the list of incidents inside SpiraTeam you will now be able to sort and filter the list by the associated build:

Welcome, System Administrator | Library Information System | My Profile | Administration | Log Out | Search | Help?

My Page | Project Home | Planning | Testing | Tracking | Reporting

Incidents | Tasks | Resources | Source Code | Role: Project Owner

New Incident | Delete | Refresh | Copy | Tools | Show/Hide columns | Filter

Displaying 1 - 15 out of 60 incident(s) for this project

Incident Name	Type	Status	Priority	Detected By	Creation Date	Owner	Build	ID	Edit
Cannot log into the application	Incident	New		Fred Bloggs	1-Nov-2003		Build JUnit #92	IN000001	Edit
Not able to add new author	Incident	New		Joe P Smith	1-Nov-2003		Build JUnit #92	IN000002	Edit
Clicking on link throws fatal error	Incident	New		Fred Bloggs	1-Nov-2003		Build 0001	IN000003	Edit
Database not backing up correctly	Bug	Open		Joe P Smith	2-Nov-2003		Build 0001	IN000004	Edit
Cannot install system on Oracle 9i	Bug	Open	1 - Critical	Fred Bloggs	2-Nov-2003		Build 0002	IN000005	Edit
The book listing screen doesn't sort	Bug	Open	3 - Medium	Joe P Smith	2-Nov-2003		Build 0002	IN000006	Edit
Cannot add a new book to the system	Bug	Assigned	1 - Critical	Joe P Smith	4-Nov-2003	Joe P Smith	Build JUnit #97	IN000007	Edit
Editing the date on a book is clunky	Bug	Assigned	2 - High	Joe P Smith	4-Nov-2003	Fred Bloggs		IN000008	Edit
Editing the date on an author is clunky	Bug	Assigned	3 - Medium	Joe P Smith	4-Nov-2003	Joe P Smith	Build 0004	IN000009	Edit
Doesn't let me add a new category	Bug	Resolved	4 - Low	Fred Bloggs	4-Nov-2003	Fred Bloggs	Build 0004	IN000010	Edit
Validation on the edit book page	Bug	Resolved	1 - Critical	Fred Bloggs	15-Nov-2003	Joe P Smith	Build 0005	IN000011	Edit
Quote handling issues throughout	Bug	Resolved	2 - High	Fred Bloggs	15-Nov-2003	Fred Bloggs	Build 0005	IN000012	Edit
The tables get cutoff on low-res modes	Bug	Closed	3 - Medium	Joe P Smith	15-Nov-2003	Joe P Smith	Build 0005	IN000013	Edit
Permissions not updating when changed	Bug	Closed	4 - Low	Joe P Smith	15-Nov-2003	Fred Bloggs	Build 0005	IN000014	Edit
Session handling	Bug	Closed	1 - Critical	Joe P Smith	15-Nov-2003	Joe P Smith		IN000015	Edit

Show 15 rows per page | Displaying page 1 of 4

Congratulations! You are now able to use SpiraTeam and Jenkins to be able to manage your builds and have the build status integrated into your SpiraTeam project dashboard.

3. Integrating with TeamCity

This section outlines how to use SpiraTest, SpiraPlan or SpiraTeam (hereafter referred to as SpiraTeam) in conjunction with the JetBrains' TeamCity continuous integration build servers. It assumes that you already have a working installation of SpiraTest, SpiraPlan or SpiraTeam v4.0 or later and a working installation of TeamCity v9.0.4 or later. If you have an earlier version of SpiraTeam, you will need to upgrade to at least v4.0.

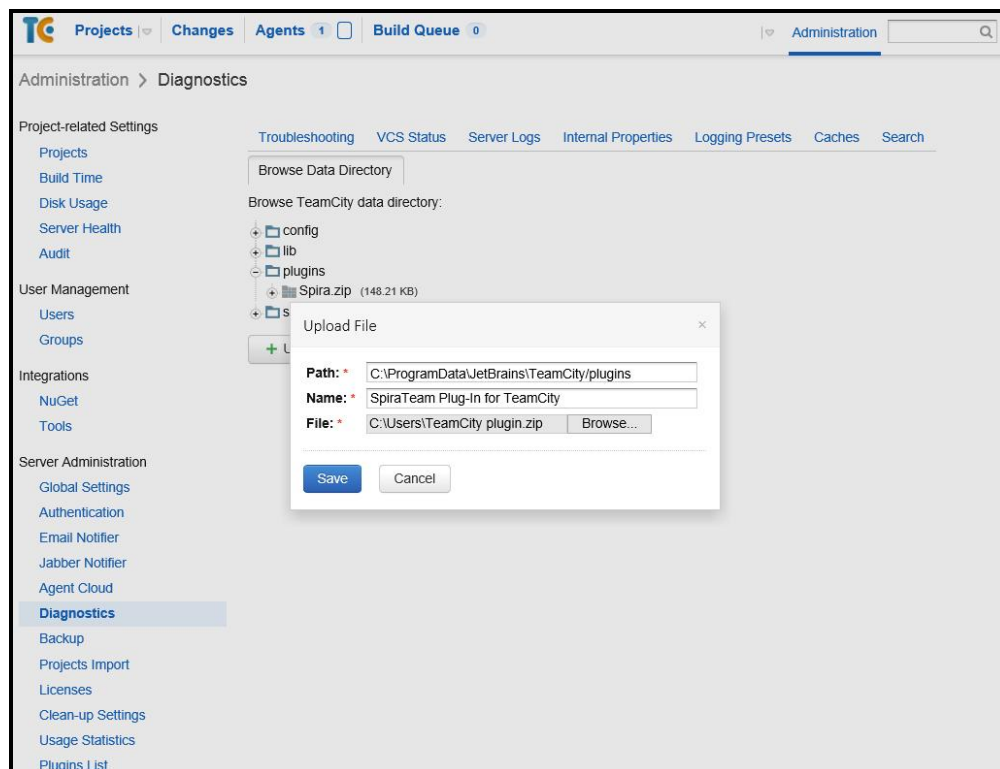
3.1. Overview

TeamCity provides continuous integration services for software development, primarily in the Java programming language. It is a server-based system running that supports a variety of different version control systems and build runners. It supports SCM tools including CVS, Subversion, Git, Mercurial, Perforce and Borland StarTeam, and can execute Apache Ant and Apache Maven based projects as well as arbitrary shell scripts and Windows batch commands.

When you use the SpiraTeam Plug-In for TeamCity, it will allow you to associate each TeamCity project with a corresponding project and release in SpiraTeam. Then, each time TeamCity creates a new build, a new build artifact will be created in SpiraTeam. Each build in SpiraTeam will be automatically linked to the incidents fixed, tasks implemented, requirements developed and source code revisions committed.

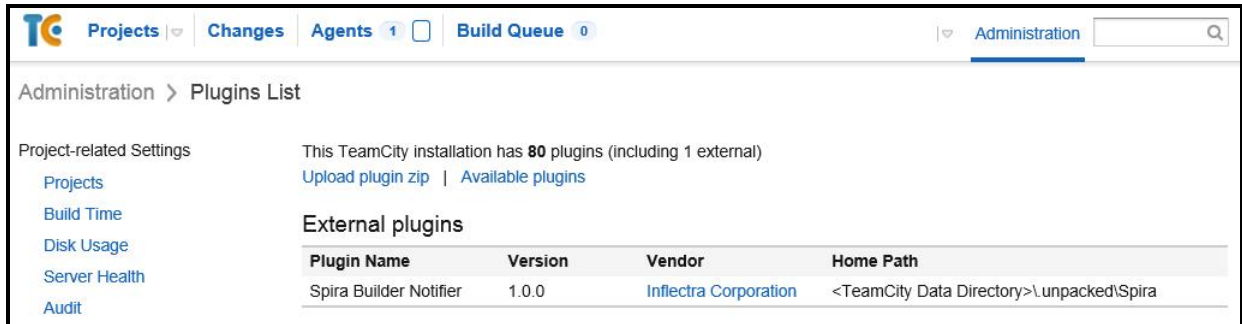
3.2. Installing the SpiraTeam Plug-in for TeamCity

Go to the Inflectra website and open up the page that lists the various downloads available for SpiraTeam (<http://www.inflectra.com/SpiraTeam/Downloads.aspx>). Listed on this page will be the SpiraTeam Plug-In for TeamCity. Right-click on this link and save the Zip compressed folder to the TeamCity's Plug-In directory ($\$TEAMCITY_USER_HOME/plugins$). After that, restart TeamCity for the plugin to take effect. It's also possible to install the Plug-In through the user interface of TeamCity via Administration > Plugins List > Upload Plugin Zip, choosing the zip-file from your file-system:



Do not forget to restart TeamCity for the plugin to take effect.

Once TeamCity has restarted, you can see the SpiraTeam Plug-In listed as one of the installed plugins:

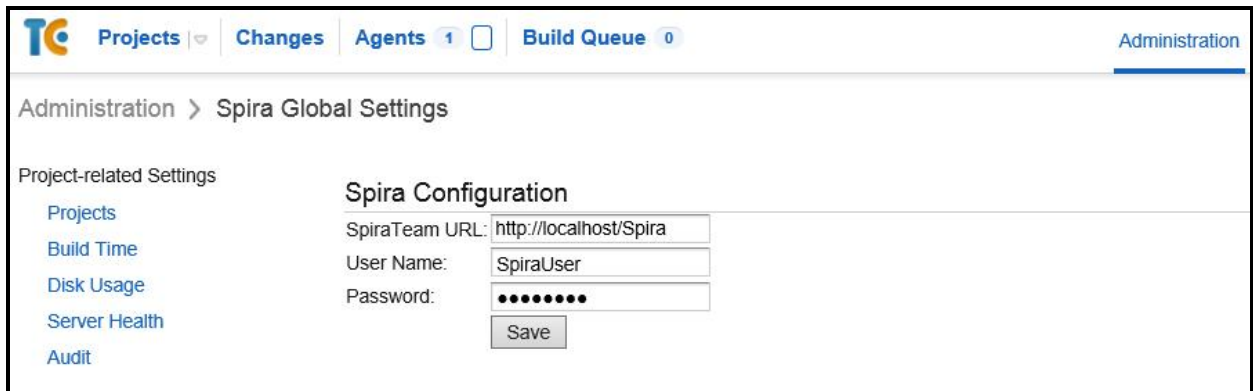


The screenshot shows the TeamCity Administration interface. The top navigation bar includes 'Projects', 'Changes', 'Agents' (with a count of 1), and 'Build Queue' (with a count of 0). The 'Administration' tab is selected. The main content area is titled 'Administration > Plugins List'. It shows 'Project-related Settings' on the left and a summary on the right: 'This TeamCity installation has 80 plugins (including 1 external)'. Below this, there are links for 'Upload plugin zip' and 'Available plugins'. A section titled 'External plugins' contains a table with the following data:

Plugin Name	Version	Vendor	Home Path
Spira Builder Notifier	1.0.0	Inflectra Corporation	<TeamCity Data Directory>\unpacked\Spira

3.3. Setting-Up the SpiraTeam TeamCity Plug-in

Now that the plugin has been installed, you need to configure the Global Settings for integration with SpiraTeam. To do this, go to Administration > Spira Global Settings:



The screenshot shows the 'Administration > Spira Global Settings' page. The left sidebar lists 'Project-related Settings' including 'Projects', 'Build Time', 'Disk Usage', 'Server Health', and 'Audit'. The main content area is titled 'Spira Configuration' and contains the following fields:

- SpiraTeam URL:
- User Name:
- Password:
- Save button

You will need TeamCity administrator privileges to access this configuration page. Once in the *Spira Global Settings* page, enter in the **URL** you use to access your instance of SpiraTeam, together with a valid **username** and **password**. Once you have entered the values, click on the [Save] button. TeamCity will then verify if it can connect to SpiraTeam successfully.

Once it has connected successfully, your connection settings will be saved. In case of error, follow the instructions on-screen and try again.

After setting the global configurations appropriately, you will need to enable the notifications in TeamCity. To do this, go to *My Settings & Tools*, that can be accessed through clicking your TeamCity username (top right). Once there, in the *General* tab, inside the *Watched Builds and Notifications* box, find the *Spira Notifier for TeamCity* section, and click in *Edit*.

TC Projects | Changes Agents 1 | Build Queue 0 teamcity

My Settings & Tools

General Groups Notification Rules

General

Username: teamcity [Edit](#)

Name:

Email address:

Password:

Confirm password:

Watched Builds and Notifications

Email Notifier [Edit](#)

You are not watching any build configurations.

IDE Notifier [Edit](#)

You are not watching any build configurations.

Jabber Notifier [Edit](#)

Jabber account:

You are not watching any build configurations.

Spira Notifier For TeamCity [Edit](#)

You are watching all projects.

Windows Tray Notifier [Edit](#)

You are not watching any build configurations.

Version Control Username Settings

Default for all of the VCS roots: brgruber [Edit](#)

UI Settings

- Highlight my changes and investigations
- Show date/time in my timezone
- Show all personal builds
- Add builds triggered by me to [favorites](#)

Once in the page, click in *Add new Rule*. Then, inside the *Send notification when* section, select the events you want TeamCity notify SpiraTeam:

General Groups Notification Rules

Email Notifier (0/2) | IDE Notifier (0/2) | Jabber Notifier (0/1) | **Spira Notifier for TeamCity (0)** | Windows Tray Notifier (0/1)

Add New Rule

Watch:

- Builds affected by my changes
 - [Edit Branch Filter](#)
- Builds from the selected project
- Builds from the selected build configurations
- System wide events

Send notification when:

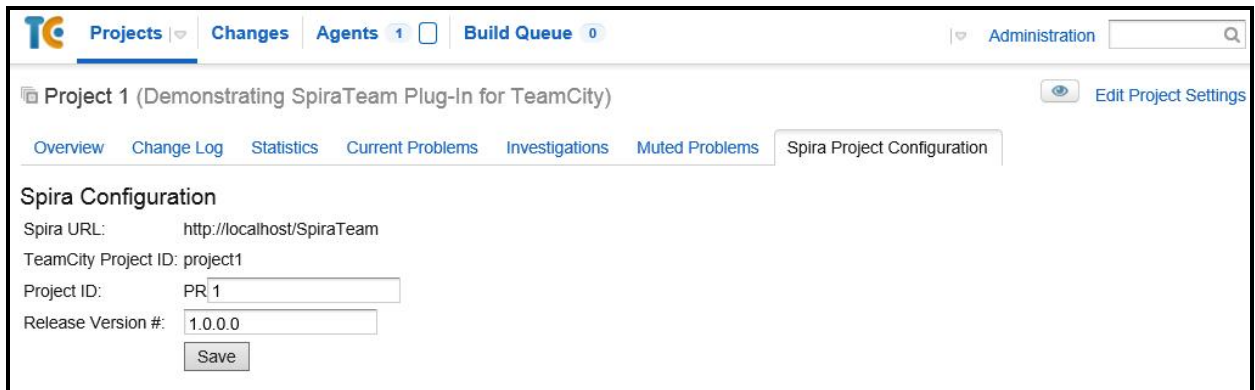
- Build fails
 - Ignore failures not caused by my changes
 - Only notify on the first failed build after successful
- Build is successful
 - Only notify on the first successful build after failed
- The first build error occurs
- Build starts
- Build fails to start
- Build is probably hanging
- Investigation is updated
- Tests are muted or unmuted

[Save](#) [Cancel](#)

After selecting your preferences, click in the Save button.

3.4. Configuring a TeamCity Project

Now that you have setup the Global SpiraTeam and Notifications settings in TeamCity, next you need to associate each of your TeamCity Projects with their corresponding SpiraTeam Project and Release/Iteration. To do this, click on the name of a project and then click on the “Spira Project Configuration” tab for that Project:



In this page you can check the URL of the SpiraTeam Server. If it is wrong, you can change it in the Spira Global Settings menu (see section 3.3 again). It is also possible to check the Project ID associated with the project in TeamCity. This information can be useful for debugging/checking reasons.

To associate a TeamCity Project with a SpiraTeam Project, enter the following values:

- **Project ID** – The numeric ID of the SpiraTeam Project that the Build belongs to. (e.g. for Project PR00001 just enter 1)
- **Release Version Number** – The version number of the SpiraTeam Release/Iteration that the Build belongs to. (e.g. for Release RL0004 with version number 1.0.0.0 you'd enter just 1.0.0.0)

Once you have entered in the Project ID and Release version number, click the [Save] button and the plugin will connect to SpiraTeam and verify that the project exists, that the current user can connect to that project, and that the specified release/iteration exists in the project. Once it has verified successfully, it will save your Project configuration settings. In case of error, follow the instructions on-screen and try again. You are now ready to use TeamCity with SpiraTeam.

3.5. Viewing the Build Results in SpiraTeam

Now that you have associated your TeamCity Project with a specific SpiraTeam project and release/iteration, you can now use TeamCity to manage your software builds and have the results of the build be reported back into SpiraTeam. For example when the 'BuildConfigTest' build of Project 1 illustrated in the figure below is executed, it will report in TeamCity:



The corresponding build entry will also be created in SpiraTeam under the specified project and release/iteration:

Build Name ▲▼	Creation Date ▲▼	Status ▲▼	Last Updated ▲▼	ID ▲▼
Project 1 :: BuildConfigTest #122	23-Jun-2015	Succeeded	23-Jun-2015	BL-000074
Project 1 :: BuildConfigTest #121	23-Jun-2015	Succeeded	23-Jun-2015	BL-000073
TestProject :: BuildConfigTest #119	19-Jun-2015	Succeeded	19-Jun-2015	BL-000071

If you have configured your Project Home to include the list of recent builds, the build information will also be displayed on the Project Home dashboard:

Name	Status	Creation Date
Project 1 :: BuildConfigTest #122	Succeeded	6/23/2015 2:37:56 PM
Project 1 :: BuildConfigTest #121	Succeeded	6/23/2015 2:35:39 PM
TestProject :: BuildConfigTest #119	Succeeded	6/19/2015 4:01:47 PM

Clicking on either of the hyperlinks will allow you to navigate to the Build details page inside SpiraTeam:

Build: Project 1 :: BuildConfigTest #122 [BL:000074]

Name: Project 1 :: BuildConfigTest #122

Description: TeamCity server version is 9.0.4 (build 32407)
 Build bt1
 \$BUILD_PROGRESS\$ Checking for changes
 changesBlock Collecting changes in 1 VCS root
 changesBlock VCS Root details
 "svn: svn://doctor/Common/Test_Checkin" [instance id=1, parent internal id=1, parent id=TestProject_SvnDoctorCommonTestCheckin, description: "svn: svn://doctor/Common/Test_Checkin"]
 Waiting for completion of current operations for the VCS root "svn://doctor/Common/Test_Checkin"
 Detecting changes in VCS root "svn://doctor/Common/Test_Checkin" (used in BuildConfigTest)
 Will collect changes for "svn://doctor/Common/Test_Checkin" starting from revision 28924
 Agent time zone: America/New_York
 Agent is running under JRE: 1.7.0_72-b14
 Clearing temporary directory: C:\TeamCity\buildAgent\temp\buildTmp
 agent Publishing internal artifacts
 Sending using WebPublisher
 Sending using ArtifactsCachePublisher
 Checkout directory: C:\TeamCity\buildAgent\work\217a0c719f7601ef
 checkout Updating sources
 Using vcs information from agent file: 217a0c719f7601ef.xml
 checkout VCS Root: svn://doctor/Common/Test_Checkin
 revision: 28919
 Using

Status: **Succeeded** Creation Date: 6/23/2015 2:37:56 PM
Last Updated: 6/23/2015 2:38:15 PM

Associations Incidents Test Runs

Refresh Apply Filter Clear Filter -- Show/hide columns --

Displaying 1 - 0 out of 0 incident(s) in the current build. Filtering results by Build. (Clear Filters)

✓	Name ▲▼	Type ▲▼	Status ▲▼	Priority ▲▼	Detected By ▲▼	Creation Date ▲▼	Owner ▲▼	ID ▲▼
		-- Any --	-- Any --	-- Any --	-- Any --		-- Any --	IN

Show 15 rows per page | Displaying page 1 of 0

This page will display the status (success / failure) and details of the build (imported from the TeamCity Console Output) together with a list of the associated incidents, test runs and source code revisions. The following section will explain how to use your Source Code Management (SCM) system to take advantage of the SpiraTeam plugin and automatically link incidents and source code revisions to the build information.

3.6. Working with Source Code Changesets

When your developers commit changes to your application's source into the SCM repository, they should make sure to link the commit to the appropriate artifacts in SpiraTeam. For example they may want to record that the revision fixes a specific incident or implements a specific feature (requirement).

Linking an artifact is very simple. All the developer needs to do is enter the artifact token in the following format:

[PREFIX: ID]

The first half, the Artifact Identifier, is a two-letter code that is used throughout SpiraTeam, and is visible on almost every page in the application. For example, a requirement's identifier is "RQ". Incidents are "IN", and tasks are "TK". The artifact ID is the number of the artifact. So by creating a commit message that reads:

Due to requirement [RQ:12], the code for .toString in class XMLparser was modified. This also fixed Incident [IN:1034].

SpiraTeam will automatically detect the tokens and will include links to them under the Associations tab for each revision detail in SpiraTeam.

Inside SpiraTeam, the system will use the same information to automatically link the list of associated revisions to the build record:

✓	Revision ▲▼	Author ▲▼	Summary ▲▼	Commit Date ▲▼	Content ▲▲▼	Properties ▲▲▼
<input type="checkbox"/>	28796	bgruber	fixed [IN:000092]	10-Jun-2015	-- Any --	No

If the commit message contains Incident tokens, the plugin will also automatically link those incidents to the appropriate build:

Date	Artifact Name	Creator	Comment	Artifact Type	ID
10-Jun-2015	this is a test bug	Fred Bloggs	fixed [IN:000092]	Incident	IN000092

Similarly when you view the list of incidents inside SpiraTeam you will now be able to sort and filter the list by the associated build:

Internal Projects > Library Information System

Incidents | Tasks | Resources | Source Code

New Incident | Delete | Refresh | Copy | Tools | -- Showhide columns -- | Filter

Displaying 1 - 15 out of 86 incident(s) for this project.

Quick Filter	Name	Type	Status	Priority	Detected By	Creation Date	Owner	Build
	Database constraint error	Bug	New	2 - High	System Administrator	12-Jun-2015		
	this is a bug	Bug	New	2 - High	Fred Bloggs	1-Jun-2015		Build 0004
	Rendering issue on author page.	Bug	New	2 - High	Fred Bloggs	28-May-2015		
	Page redirection issue on book list page	Bug	Assigned	2 - High	System Administrator	14-May-2015	Joe P Smith	
	Timeout on home page	Bug	New	2 - High	System Administrator	13-May-2015		Build 0004
	Bug when displaying book list	Bug	New	2 - High	Fred Bloggs	8-May-2015		
	DNS error when updating author name	Bug	Assigned	2 - High	Fred Bloggs	5-May-2015	Joe P Smith	
	bug on aging report	Incident	New	2 - High	System Administrator	29-Apr-2015		
	Page missing on confirmation screen	Bug	New	2 - High	Fred Bloggs	21-Apr-2015		
	timeout bug on submission	Bug	New	2 - High	Fred Bloggs	16-Apr-2015		
	There is a bug in this screen	Bug	New	2 - High	Fred Bloggs	15-Apr-2015		
	Bug in the login page	Bug	Assigned	1 - Critical	System Administrator	13-Apr-2015	Fred Bloggs	
	system error while changing book genre	Bug	New	1 - Critical	System Administrator	13-Apr-2015		
	bad	Incident	New		Fred Bloggs	31-Mar-2015		
	incident	Incident	New		Fred Bloggs	31-Mar-2015		

Show 15 rows per page

Congratulations! You are now able to use SpiraTeam and TeamCity to be able to manage your builds and have the build status integrated into your SpiraTeam project dashboard.

4. Integrating with Bamboo

This section outlines how to use SpiraTest, SpiraPlan or SpiraTeam (hereafter referred to as SpiraTeam) in conjunction with the Atlassian's Bamboo continuous integration build servers. It assumes that you already have a working installation of SpiraTest, SpiraPlan or SpiraTeam v4.0 or later and a working installation of Bamboo v 5.0 or later. If you have an earlier version of SpiraTeam, you will need to upgrade to at least v4.0.

4.1. Overview

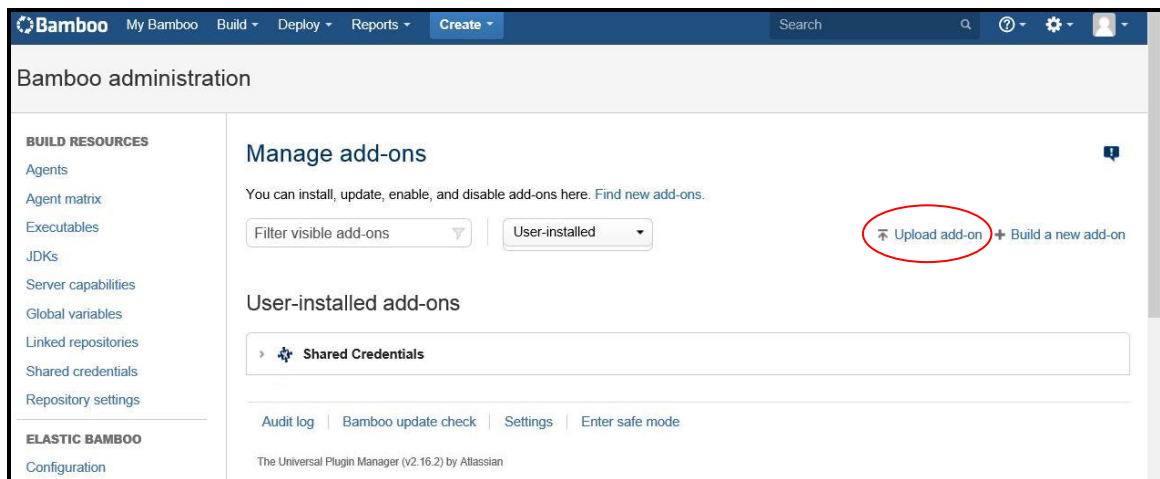
Bamboo provides continuous integration services for software development, in any programming language using any build tool. It is a server-based system running that supports a variety of different version control systems. It supports SCM tools including CVS, Subversion, and Git, and can execute Apache Ant and Apache Maven based projects as well as arbitrary shell scripts and Tomcat.

When you use the SpiraTeam Add-on for Bamboo, it will allow you to associate each Bamboo project and plan with a corresponding project/release in SpiraTeam. Then, each time Bamboo creates a new build, a new build artifact will be created in SpiraTeam. Each build in SpiraTeam will be automatically linked to the incidents fixed, tasks implemented, requirements developed and source code revisions committed.

4.2. Installing the SpiraTeam Add-on for Bamboo

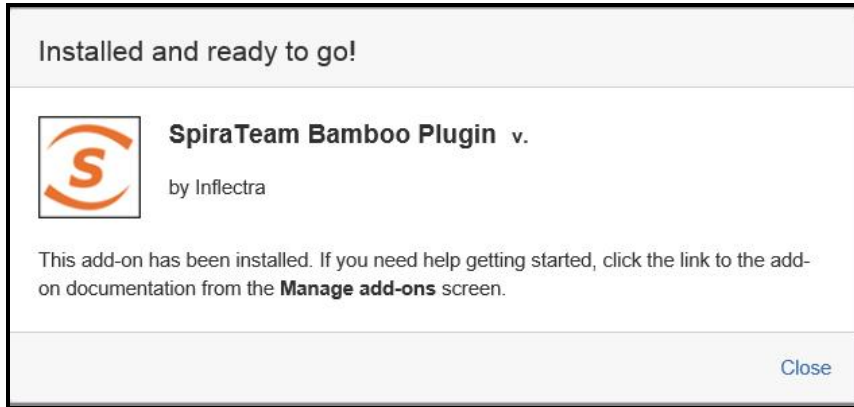
Go to the Inflectra website and open up the page that lists the various downloads available for SpiraTeam (<http://www.inflectra.com/SpiraTeam/Downloads.aspx>). Listed on this page will be the SpiraTeam *Add-on* for Bamboo. Right-click on this link and save the .zip file to your local computer.

Inside this .zip file will be a .jar file, extract the .jar file and save to a local folder on your system. After that, go to Bamboo Administration. You will need Bamboo administrator privileges to access this configuration page. Under Add-ons, click on the *Manage Add-ons* link and then on *Upload Add-on* on the left:

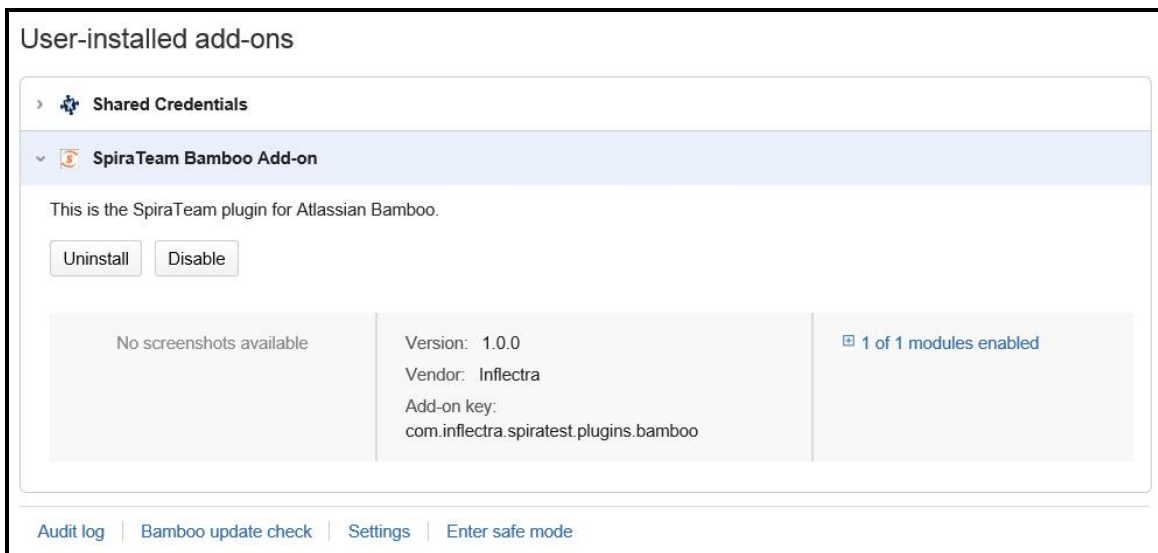


After that, click on *Browse* and select the .jar file extracted from the .zip archive downloaded from the Inflectra website. Then, click on *Update*.


After the installation of the SpiraTeam Add-on, you should see a welcome screen:

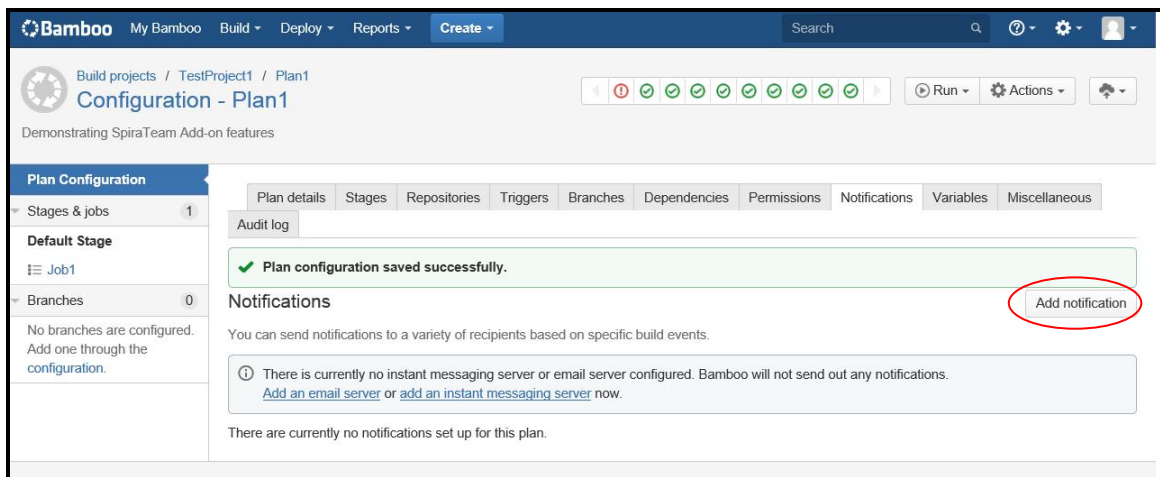


You will then be able to see the SpiraTeam Add-on in the *User Installed Add-ons list* :



4.3. Setting-Up the SpiraTeam Bamboo Add-on

Now that the add-on has been installed, you need to configure the settings for integration with SpiraTeam. To do this, go to the Project you want to communicate with SpiraTeam, and under the plan you want to receive notifications, click on Edit ( icon). In the Plan Configuration screen, go to the *Notifications* tab and click on Add Notification:



In the Add a new notification pop-up, select the appropriate event you want to receive notifications, and in the Recipient type box, select *SpiraTeam*:

Add a new notification

Add build notification

Event: ▼
Notification sent for every fully completed build

Recipient type: ▼

URL:

User Name:

Password:

Project ID:

Release Version #:

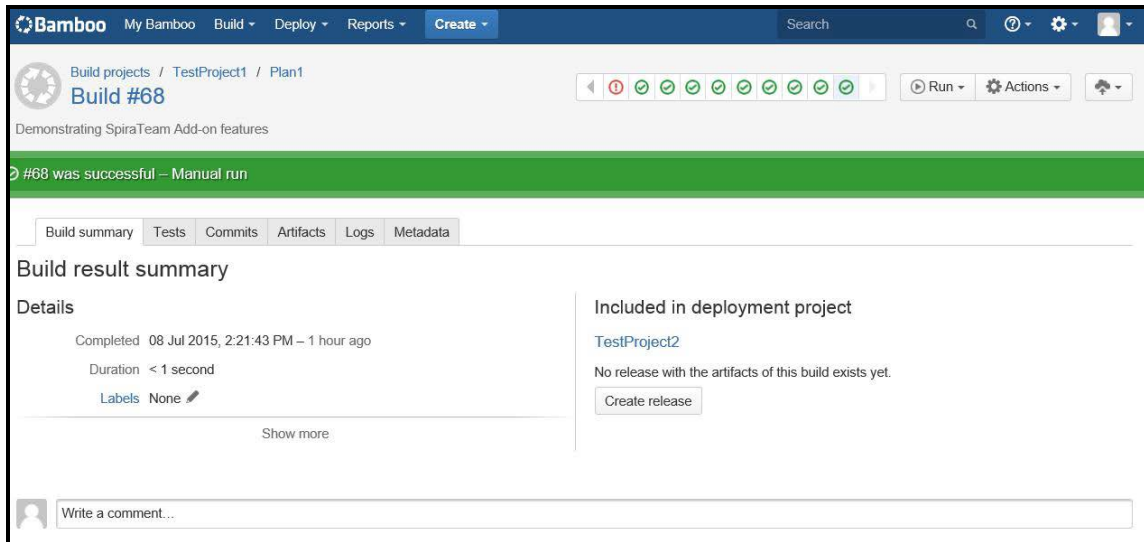
After that, you will see some new fields to fill, they are:

- **URL** - It is the URL you use to access your instance of SpiraTeam;
- **User Name:** Your SpiraTeam user name;
- **Password:** Your SpiraTeam password;
- **Project ID** – The numeric ID of the SpiraTeam Project that the Build belongs to. (e.g. for Project PR00001 just enter 1)
- **Release Version Number** – The version number of the SpiraTeam Release/Iteration that the Build belongs to. (e.g. for Release RL0004 with version number 1.0.0.0 you'd enter just 1.0.0.0)

After filling this boxes with appropriate information, click on *Add* button. Bamboo will then try to connect to the SpiraTeam Server, and check the Project/Release provided info. Once it validates your information, the connection settings will be saved. In case of error, follow the instructions on-screen and try again.

4.4. Viewing the Build Results in SpiraTeam

Now that you have associated your Bamboo Project and Plan with a specific SpiraTeam project and release/iteration, you can use Bamboo to manage your software builds and have the results of the build be reported back into SpiraTeam. For example when the 'Plan1' build of TestProject 1 illustrated in the figure below is executed, it will report in Bamboo:



The corresponding build entry will also be created in SpiraTeam under the specified project and release/iteration:

Build Name ▲▼	Creation Date ▲▼	Status ▲▼	Last Updated ▲▼	ID ▲▼
TP1-P1 #68	8-Jul-2015	Succeeded	8-Jul-2015	BL:000103
TP1-P1 #66	8-Jul-2015	Succeeded	8-Jul-2015	BL:000101
TP1-P1 #65	8-Jul-2015	Succeeded	8-Jul-2015	BL:000100
TP1-P1 #64	7-Jul-2015	Succeeded	7-Jul-2015	BL:000097
TP1-P1 #63	7-Jul-2015	Succeeded	7-Jul-2015	BL:000096

If you have configured your Project Home to include the list of recent builds, the build information will also be displayed on the Project Home dashboard:

Recent Builds		
Name	Status	Creation Date
TP1-P1 #68	Succeeded	7/8/2015 2:21:40 PM
TP1-P1 #66	Succeeded	7/8/2015 11:18:30 AM
TP1-P1 #65	Succeeded	7/8/2015 11:11:15 AM
TP1-P1 #64	Succeeded	7/7/2015 4:33:11 PM
TP1-P1 #63	Succeeded	7/7/2015 3:26:52 PM

Clicking on either of the hyperlinks will allow you to navigate to the Build details page inside SpiraTeam:

The screenshot shows the SpiraTeam interface. The top navigation bar includes 'Default Group', 'TeamCity Test Project', a search bar, and tabs for 'Planning', 'Testing', 'Tracking', and 'Reporting'. The user 'Fred Bloggs' is logged in as 'Role: Manager'. The main content area is titled 'Build: TP1-P1 #68 [BL:000103]'. It displays the build name, a description, a 'Succeeded' status, and dates. Below are tabs for 'Associations', 'Revisions', 'Incidents', and 'Test Runs'. A table at the bottom shows a list of revisions with columns for Revision, Author, Summary, Commit Date, Content, and Properties.

This page will display the status (success / failure) and details of the build (imported from the Bamboo Console Output) together with a list of the associated incidents, test runs and source code revisions. The following section will explain how to use your Source Code Management (SCM) system to take advantage of the SpiraTeam add-on and automatically link incidents and source code revisions to the build information.

4.5. Working with Source Code Changesets

When your developers commit changes to your application's source into the SCM repository, they should make sure to link the commit to the appropriate artifacts in SpiraTeam. For example they may want to record that the revision fixes a specific incident or implements a specific feature (requirement).

Linking an artifact is very simple. All the developer needs to do is enter the artifact token in the following format:

[PREFIX: ID]

The first half, the Artifact Identifier, is a two-letter code that is used throughout SpiraTeam, and is visible on almost every page in the application. For example, a requirement's identifier is "RQ". Incidents are "IN", and tasks are "TK". The artifact ID is the number of the artifact. So by creating a commit message that reads:

Due to requirement [RQ:12], the code for .toString in class XMLparser was modified. This also fixed Incident [IN:1034].

SpiraTeam will automatically detect the tokens and will include links to them under the Associations tab for each revision detail in SpiraTeam.

Inside SpiraTeam, the system will use the same information to automatically link the list of associated revisions to the build record:

Revision ▲▼	Author ▲▼	Summary ▲▼	Commit Date ▲▼	Content ▲▲▼	Properties ▲▲▼
<input type="checkbox"/> 28796	bgruber	fixed [IN:000092]	10-Jun-2015	Yes	No

Showing 15 rows per page. Displaying page 1 of 1.

If the commit message contains Incident tokens, the add-on will also automatically link those incidents to the appropriate build:

Date	Artifact Name	Creator	Comment	Artifact Type	ID
10-Jun-2015	this is a test bug	Fred Bloggs	fixed [IN:000092]	Incident	IN000092

Similarly when you view the list of incidents inside SpiraTeam you will now be able to sort and filter the list by the associated build:

Name ▲▼	Type ▲▼	Status ▲▼	Priority ▲▼	Detected By ▲▼	Creation Date ▲▼	Owner ▲▼	Build ▲▼
Database constraint error	Bug	New	2 - High	System Administrator	12-Jun-2015		
this is a bug	Bug	New	2 - High	Fred Bloggs	1-Jun-2015		Build 0004
Rendering issue on author page.	Bug	New	2 - High	Fred Bloggs	28-May-2015		
Page redirection issue on book list page	Bug	Assigned	2 - High	System Administrator	14-May-2015	Joe P Smith	
Timeout on home page	Bug	New	2 - High	System Administrator	13-May-2015		Build 0004
Bug when displaying book list	Bug	New	2 - High	Fred Bloggs	8-May-2015		
DNS error when updating author name	Bug	Assigned	2 - High	Fred Bloggs	5-May-2015	Joe P Smith	
bug on aging report	Incident	New	2 - High	System Administrator	29-Apr-2015		
Page missing on confirmation screen	Bug	New	2 - High	Fred Bloggs	21-Apr-2015		
timeout bug on submission	Bug	New	2 - High	Fred Bloggs	16-Apr-2015		
There is a bug in this screen	Bug	New	2 - High	Fred Bloggs	15-Apr-2015		
Bug in the login page	Bug	Assigned	1 - Critical	System Administrator	13-Apr-2015	Fred Bloggs	
system error while changing book genre	Bug	New	1 - Critical	System Administrator	13-Apr-2015		
bad	Incident	New		Fred Bloggs	31-Mar-2015		
incident	Incident	New		Fred Bloggs	31-Mar-2015		

Showing 15 rows per page.

Congratulations! You are now able to use SpiraTeam and Bamboo to be able to manage your builds and have the build status integrated into your SpiraTeam project dashboard.

5. Integrating with Team Foundation Server

This section outlines how to use SpiraTest, SpiraPlan or SpiraTeam (hereafter referred to as SpiraTeam) in conjunction with Microsoft's Team Foundation Server (hereafter referred to as TFS) continuous integration build server module. It assumes that you already have a working installation of SpiraTest, SpiraPlan or SpiraTeam v4.0 or later and a working installation of TFS 2013 or TFS 2015. If you have an earlier version of SpiraTeam, you will need to upgrade to at least v4.0.

5.1. Overview

TFS provides tools for managing the entire application lifecycle, including source code management, reporting, automated builds, testing and release capabilities, for example. It supports version control using either its native TFS source code management system or Git. SpiraTeam has version control plugins for both TFS native and TFS with Git source code management options.

When you use the SpiraTeam Build Server Plug-In for TFS, it will allow you to associate different TFS projects with a corresponding project and release in SpiraTeam. Then, each time TFS creates a new build, a new build artifact will be created in SpiraTeam. Each build in SpiraTeam will be automatically linked to the incidents fixed, tasks implemented, requirements developed and source code revisions committed.

5.2. Installing the SpiraTeam Build Plug-in for TFS

Go to the Inflectra website and open up the page that lists the various downloads available for SpiraTeam (<http://www.inflectra.com/SpiraTeam/Downloads.aspx>). Listed on this page will be the SpiraTeam Build Plug-In for TFS. There are two different versions of the plugin (for TFS2013 and TFS2015). Select the appropriate version, then right-click on this link and save the .zip file in your system. You will need to extract the folder and copy all the files to the TFS Plugins Directory, which is usually:

```
C:\Program Files\Microsoft Team Foundation Server x.x\Application Tier\Web Services\bin\Plugins
```

After that, TFS will automatically restart and run the SpiraTeam Build Plug-In.

5.3. Setting-Up the SpiraTeam Build Plug-in for TFS

Once you have copied the SpiraTeam Build Plug-In files to the TFS Plugins Directory, you will need to configure the plugin. To do this, you will need to open the file

```
DevCore.TfsNotificationRelay.dll.config
```

using your favorite text editor, or Visual Studio, for example. Then, find the section `<bots>` and the bot `id="spira"`. In this section, you will input the information related to the SpiraTeam project you want to connect. To do this, enter the appropriate information in the " " at each correspondent `value` field:

```
<add name="spiraURL" value="Enter your SpiraTeam URL here"/>
<add name="spiraUser" value="Enter your SpiraTeam user name here"/>
<add name="spiraPassw" value="Enter your SpiraTeam password here"/>
<add name="spiraPnumber" value="Enter your SpiraTeam project # here "/>
<add name="spiraPvers" value="Enter your SpiraTeam release version # here"/>
```

The information you need to enter is:

- **spiraURL** - It is the URL you use to access your instance of SpiraTeam;
- **spiraUser**: Your SpiraTeam user name;
- **spiraPassw**: Your SpiraTeam password;

- **spiraPnumber** – The numeric ID of the SpiraTeam Project that the Build belongs to. (e.g. for Project PR00001 just enter 1)
- **spiraPvers** – The version number of the SpiraTeam Release/Iteration that the Build belongs to. (e.g. for Release RL0004 with version number 1.0.0.0 you'd enter just 1.0.0.0)

Additionally, you can specify the TFS project you want to associate with the SpiraProject you have setup, entering the TFS Project name in the appropriate field inside the `<eventRules>` section:

`teamProject= "Enter your TFS project name here"`

Make sure to enter the exactly project name you have in TFS. If you leave this field blank, the associated SpiraTeam project will receive notifications from all the projects in TFS.

Here is an example of how your configuration file should look like after the setup:

```
<bots>
<bot id="spira" type="DevCore.TfsNotificationRelay.SpiraTeam.SpiraNotifier, DevCore.TfsNotificationRelay.SpiraTeam" textId="slacktext">
  <botSettings>
    <!--
    Please enter the information related to the SpiraTeam Project you want to associate with TFS bellow. For detailed information,
    please check the manual.
    -->
    <add name="spiraURL" value="http://doctor/SpiraTeam/" /> <!-- The URL of SpiraTeam -->
    <add name="spiraUser" value="User" /> <!-- The user name of SpiraTeam -->
    <add name="spiraPassw" value="P@ssword!" /> <!-- The password of SpiraTeam -->
    <add name="spiraPnumber" value="8" /> <!-- The number of the SpiraTeam project -->
    <add name="spiraPvers" value="1.0.0.0" /> <!-- The Release version of the SpiraTeam project -->
  </botSettings>
  <eventRules>
    <rule notify="true" events="BuildCompleted" teamProjectCollection="" teamProject="Project01" teamName="" gitRepository="" areaPath="" workI
  </eventRules>
</bot>
</bots>
```

If you want to receive notifications from more than one TFS project, you will need to create a bot for each TFS project inside the configuration file, and associate the TFS project with a SpiraTeam project. To do this, inside the configuration file, copy the whole block from `<bot>` to `</bot>`.

Make sure to enter a different name for this new bot, for example `bot id="spira2"`.

Don't forget to associate this new Notificator with a TFS Project, entering the TFS project name in the `teamProject` field.

After setting up two TFS projects, you configuration file should look like this:


```

<bots>
<bot id="spira" type="DevCore.TfsNotificationRelay.SpiraTeam.SpiraNotifier, DevCore.TfsNotificationRelay.SpiraTeam" textId="slacktext">
  <botSettings>
  <!--
  Please enter the information related to the SpiraTeam Project you want to associate with TFS below. For detailed information,
  please check the manual.
  -->
  <add name="spiraURL" value="http://doctor/SpiraTeam/" /> <!-- The URL of SpiraTeam -->
  <add name="spiraUser" value="username" /> <!-- The user name of SpiraTeam -->
  <add name="spiraPassw" value="P@ssword!" /> <!-- The password of SpiraTeam -->
  <add name="spiraPnumber" value="8" /> <!-- The number of the SpiraTeam project -->
  <add name="spiraPvers" value="1.0.0.0" /> <!-- The Release version of the SpiraTeam project -->
  </botSettings>
  <eventRules>
  <rule notify="true" events="BuildCompleted" teamProjectCollection="" teamProject="TFSProject01" teamName="" gitRepository="" areaPath="" workI
  </eventRules>
</bot>

<!-- ***** -->

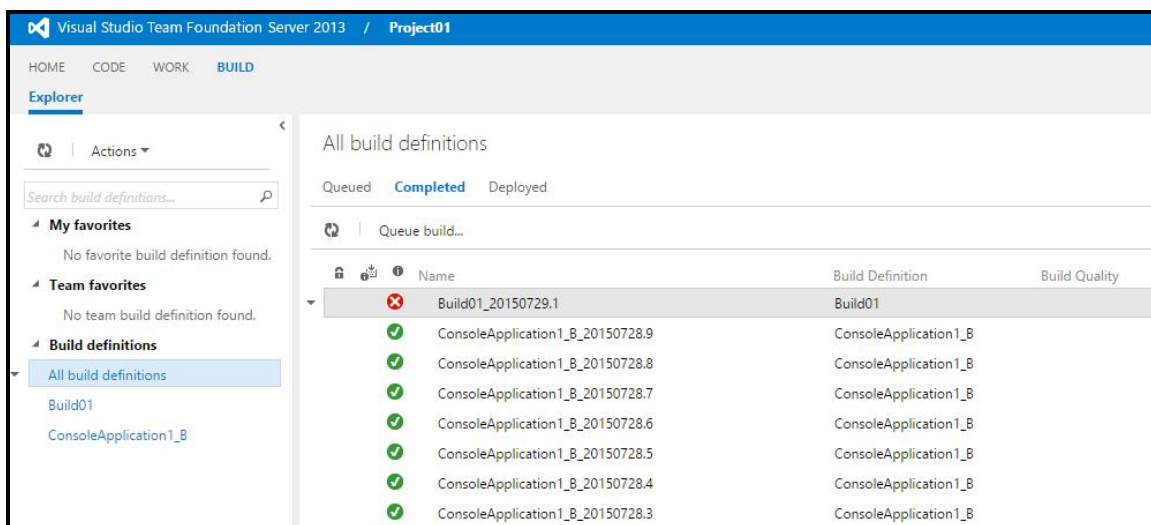
<bot id="spira2" type="DevCore.TfsNotificationRelay.SpiraTeam.SpiraNotifier, DevCore.TfsNotificationRelay.SpiraTeam" textId="slacktext">
  <botSettings>
  <add name="spiraURL" value="http://doctor/SpiraTeam/" /> <!-- The URL of SpiraTeam -->
  <add name="spiraUser" value="username" /> <!-- The user name of SpiraTeam -->
  <add name="spiraPassw" value="P@ssword!" /> <!-- The password of SpiraTeam -->
  <add name="spiraPnumber" value="1" /> <!-- The number of the SpiraTeam project -->
  <add name="spiraPvers" value="1.0.1.3" /> <!-- The Release version of the SpiraTeam project -->
  </botSettings>
  <eventRules>
  <rule notify="true" events="BuildCompleted" teamProjectCollection="" teamProject="TFSProject02" teamName="" gitRepository="" areaPath="" workI
  </eventRules>
</bot>
</bots>

```

Note the differences in `spiraPnumber`, `spiraPvers`, and `teamProject` fields in the two bots.

5.4. Viewing the Build Results in SpiraTeam

Now that you have associated your TFS Project with a specific SpiraTeam project and release/ iteration, you can now use TFS to manage your software builds and have the results of the build be reported back into SpiraTeam. For example when the 'ConsoleApplication1_B' build of 'Project 1' illustrated in the figure bellow is executed, it will report in TFS:



The corresponding build entry will also be created in SpiraTeam under the specified project and release/iteration:

Builds

> Refresh | Apply Filter | Clear Filter

Displaying 1 - 15 out of 60 build(s) in this release/iteration.

Build Name ▲▼	Creation Date ▲▼	Status ▲▼	Last Updated ▲▼	ID ▲▼
Project01 #ConsoleApplication1_B_20150728.9	28-Jul-2015	Failed	28-Jul-2015	BL-000122
Project01 #ConsoleApplication1_B_20150728.8	28-Jul-2015	Succeeded	28-Jul-2015	BL-000120
Project01 #ConsoleApplication1_B_20150728.7	28-Jul-2015	Succeeded	28-Jul-2015	BL-000118
Project01 #ConsoleApplication1_B_20150728.6	28-Jul-2015	Succeeded	28-Jul-2015	BL-000117
Project01 #ConsoleApplication1_B_20150728.5	28-Jul-2015	Succeeded	28-Jul-2015	BL-000116
Project01 #ConsoleApplication1_B_20150728.4	28-Jul-2015	Succeeded	28-Jul-2015	BL-000115

If you have configured your Project Home to include the list of recent builds, the build information will also be displayed on the Project Home dashboard:

Recent Builds

Name	Status	Creation Date
Project01 #ConsoleApplication1_B_20150728.9	Succeeded	7/28/2015 11:50:46 AM
Project01 #ConsoleApplication1_B_20150728.8	Succeeded	7/28/2015 11:38:02 AM
Project01 #ConsoleApplication1_B_20150728.7	Succeeded	7/28/2015 11:35:07 AM
Project01 #ConsoleApplication1_B_20150728.6	Succeeded	7/28/2015 11:19:16 AM
Project01 #ConsoleApplication1_B_20150728.5	Succeeded	7/28/2015 11:15:56 AM

Clicking on either of the hyperlinks will allow you to navigate to the Build details page inside SpiraTeam:

Default Group > TeamCity Test Project > Search > Planning > Testing > Tracking > Reporting > Fred Bloggs > Role: Manager

Requirements | Planning Board | Releases > Build Details | Documents

<< Back To Build List

Release 1.0

- [Project01 #ConsoleApplication1_...](#)
- [Project01 #ConsoleApplication1_...](#)
- [Project01 #ConsoleApplication1_...](#)
- [Project01 #ConsoleApplication1_...](#)
- [Project01 #ConsoleApplication1_...](#)
- [Project01 #Build01_20150728.6](#)
- [Project01 #Build01_20150728.1](#)
- [Project01 #ConsoleApplication1_...](#)
- [Project01 #ConsoleApplication1_...](#)
- [Project01 #ConsoleApplication1_...](#)
- [Project01 #ConsoleApplication1_...](#)
- [Project01 #Build01_20150724.2](#)
- [Project01 #ConsoleApplication1_...](#)
- [Project01 #Build01_20150724.1](#)
- [Project01 #ConsoleApplication1_...](#)
- [Project01 #ConsoleApplication1_...](#)
- [TP1-P1 #69](#)
- [TP1-P1 #68](#)
- [TP1-P1 #66](#)
- [TP1-P1 #65](#)
- [TP1-P1 #64](#)

Build: [Project01 #ConsoleApplication1_B_20150728.9 \[BL:000122\]](#)

Name: Project01 #ConsoleApplication1_B_20150728.9

Description: Information retrieved from TFS - Build requested by bruno gruber
 from Team System.Linq.Enumerable+<JoinIterator>d_614[Microsoft.TeamFoundation.Server.Core.TeamFoundationTeam,Microsoft.TeamFoundationTeam,Microsoft.VisualStudio.Services.Identity.IdentityDescriptor, System.String]
 and project collection DefaultCollection
 for Project01 #ConsoleApplication1_B_20150728.9
 with URL http://vm-tfs2013:8080/tfs/DefaultCollection/Project01/_build#buildUri=vsfsts:///Build/Build/104&a=summary
 located at
 Build Started at 7/28/2015 3:50:46 PM
 Build finished at 7/28/2015 3:50:58 PM
 Status Succeeded

Status: Succeeded Creation Date: 7/28/2015 11:50:46 AM
Last Updated: 7/28/2015 11:51:05 AM

Associations | Revisions # | Incidents | Test Runs

> Refresh | Apply Filter | Clear Filter | -- Show/Hide columns --

Displaying 1 - 0 out of 0 incident(s) in the current build. Filtering results by Build. (Clear Filters)

✓	Name ▲▼	Type ▲▼	Status ▲▼	Priority ▲▼	Detected By ▲▼	Creation Date ▲▼	Owner ▲▼	Progress	ID ▲▼
<input type="checkbox"/>		-- Any --	-- Any --	-- Any --	-- Any --		-- Any --	-- Any --	IN

Show 15 rows per page << < > >> Displaying page 1 of 0 >>

This page will display the status (success / failure) and details of the build (imported from the TFS Console Output) together with a list of the associated incidents, test runs and source code revisions. The following section will explain how to use your Source Code Management (SCM) system to take advantage of the SpiraTeam plugin and automatically link incidents and source code revisions to the build information.

5.6. Working with Source Code Changesets

When your developers commit changes to your application's source into the SCM repository, they should make sure to link the commit to the appropriate artifacts in SpiraTeam. For example they may want to record that the revision fixes a specific incident or implements a specific feature (requirement).

Linking an artifact is very simple. All the developer needs to do is enter the artifact token in the following format:

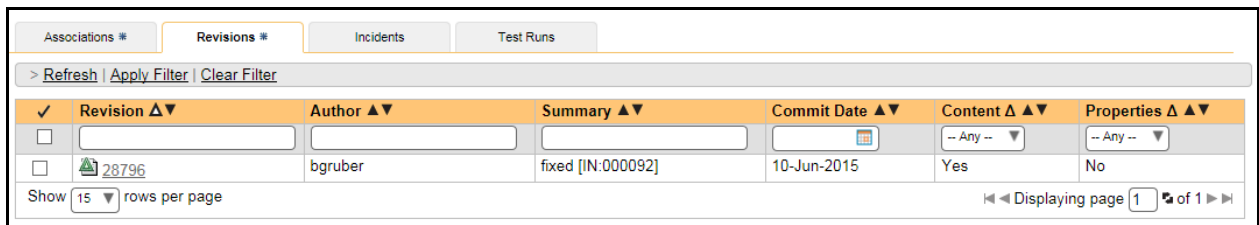
[PREFIX: ID]

The first half, the Artifact Identifier, is a two-letter code that is used throughout SpiraTeam, and is visible on almost every page in the application. For example, a requirement's identifier is "RQ". Incidents are "IN", and tasks are "TK". The artifact ID is the number of the artifact. So by creating a commit message that reads:

Due to requirement [RQ:12], the code for .toString in class XMLparser was modified. This also fixed Incident [IN:1034].

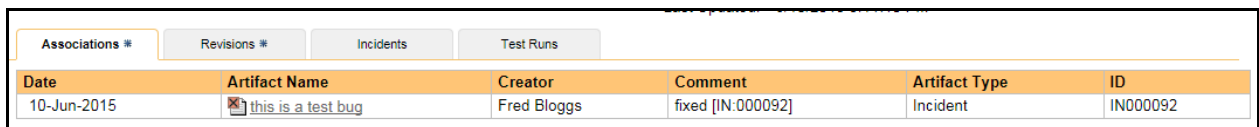
SpiraTeam will automatically detect the tokens and will include links to them under the Associations tab for each revision detail in SpiraTeam.


Inside SpiraTeam, the system will use the same information to automatically link the list of associated revisions to the build record:



✓	Revision ▲▼	Author ▲▼	Summary ▲▼	Commit Date ▲▼	Content ▲▲▼	Properties ▲▲▼
<input type="checkbox"/>	28796	bgruber	fixed [IN:000092]	10-Jun-2015	Yes	No

If the commit message contains Incident tokens, the plugin will also automatically link those incidents to the appropriate build:



Date	Artifact Name	Creator	Comment	Artifact Type	ID
10-Jun-2015	 this is a test bug	Fred Bloggs	fixed [IN:000092]	Incident	IN000092

Similarly when you view the list of incidents inside SpiraTeam you will now be able to sort and filter the list by the associated build:

Internal Projects > Library Information System

Incidents | Tasks | Resources | Source Code

New Incident | Delete | Refresh | Copy | Tools | -- Showhide columns -- | Filter

Displaying 1 - 15 out of 86 incident(s) for this project.

Quick Filter	Name	Type	Status	Priority	Detected By	Creation Date	Owner	Build
	Database constraint error	Bug	New	2 - High	System Administrator	12-Jun-2015		
	this is a bug	Bug	New	2 - High	Fred Bloggs	1-Jun-2015		Build 0004
	Rendering issue on author page.	Bug	New	2 - High	Fred Bloggs	28-May-2015		
	Page redirection issue on book list page	Bug	Assigned	2 - High	System Administrator	14-May-2015	Joe P Smith	
	Timeout on home page	Bug	New	2 - High	System Administrator	13-May-2015		Build 0004
	Bug when displaying book list	Bug	New	2 - High	Fred Bloggs	8-May-2015		
	DNS error when updating author name	Bug	Assigned	2 - High	Fred Bloggs	5-May-2015	Joe P Smith	
	bug on aging report	Incident	New	2 - High	System Administrator	29-Apr-2015		
	Page missing on confirmation screen	Bug	New	2 - High	Fred Bloggs	21-Apr-2015		
	timeout bug on submission	Bug	New	2 - High	Fred Bloggs	16-Apr-2015		
	There is a bug in this screen	Bug	New	2 - High	Fred Bloggs	15-Apr-2015		
	Bug in the login page	Bug	Assigned	1 - Critical	System Administrator	13-Apr-2015	Fred Bloggs	
	system error while changing book genre	Bug	New	1 - Critical	System Administrator	13-Apr-2015		
	bad	Incident	New		Fred Bloggs	31-Mar-2015		
	incident	Incident	New		Fred Bloggs	31-Mar-2015		

Show 15 rows per page

Congratulations! You are now able to use SpiraTeam and TFS to be able to manage your builds and have the build status integrated into your SpiraTeam project dashboard.

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