

JIRA INTEGRATION

USING JIRA WITHOUT USING JIRA

by Mike Leonard

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WHO AM I?

- Software Developer - Oracle, Java, XML, Python
- Work for Fivium
- User (and lover) of Atlassian Products


INTRODUCTION

- Overview of externally available tools
 - Issue Collector
 - APIs
 - Web Hooks
- Examples of how they can be used
- Q&A

JIRA ISSUE COLLECTOR

- Introduced in JIRA 5.1
- The easiest way to use JIRA without using JIRA
- Why is it good?
 - Allows user feedback directly into JIRA from your system
 - Save you creating your own feedback form functionality
 - Avoids losing information in emails
- User accounts not required but can be used seamlessly

JIRA ISSUE COLLECTOR



HomeNewConfiguration

Mike Leonard
Help • Log Out

Search

+ CreateStart type

Results

Key	Title
TESTTEST01	Applications
NOV2012	Applications
TESTAUG2013	August 2013
ABCAUG2012	Applications
SPPTH2013	System Test
SPCBR20131	Trial Run

Feedback Form

Please provide your feedback below:

Summary*

Description

Attach file

Choose Files

No file chosen

We've currently got you logged in as Mike Leonard. This feedback will be created using this user unless this is not you.

Submit

Close

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Provide Feedback

CONFIGURATION

Add Issue Collector

Name*

Description

Issue Type* ?

Feedback will be created as Issues of this Issue Type

Reporter

Start typing to get a list of possible matches.

Reporter for the issue. Used unless a reporter is matched to a JIRA user with create issue permissions.

Match Reporter? ☐ Always use Issue Reporter
☒ Attempt to match user session of submitter or submitter email address

Collect Browser Info ☒ Collect browser type, screen resolution, and the URL where the feedback was created

Trigger

Trigger Text*

Trigger Style ☐ Prominent
☒ Subtle
☐ Vertical
☐ Custom

Trigger Preview



CONFIGURATION

EMBEDDING IN A SYSTEM

Just copy paste code to your web system

Congratulations!

You have successfully configured a new Issue Collector.


Embedding the Issue Collector

☒ Embed in HTML ☐ Embed in JavaScript

Installation instructions: Embed the below code in the HTML code of the target website.

```
<script type="text/javascript"
src="https://fivium.atlassian.net/s/d41d8cd98f00b204e9800998ecf8427e/en_US-
mlnajt-
1988229788/6252/194/1.4.7/_/download/batch/com.atlassian.jira.collector.plugin.jira
-issue-collector-plugin:issuecollector/com.atlassian.jira.collector.plugin.jira-issue-
collector-plugin:issuecollector.js?collectorId=7642a729"></script>
```


EXAMPLE



[Home](#) [New](#) [Configuration](#)

Mike Leonard
Help • Log Out


Search

[+ Create](#) Start type

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Submit

Close

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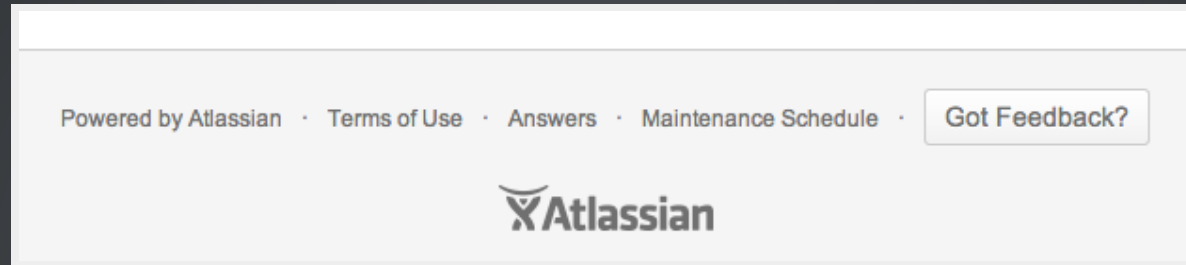
Provide Feedback

EXAMPLE


[Click here](#)

ATLASSIAN USE IT

Its exactly how Atlassian include their own feedback



ATLASSIAN USE IT

 Dashboards ▾ Agile

Quick Search

?

Log In

System Dashboard

Introduction

Welcome to JIRA
New to JIRA? Click here for more information.



Login

JIRA Feedback

Thanks for giving feedback. We read all of it which helps us improve the product. If you leave your email, we can reach out if we need more information, however we can't respond to everyone. If it's urgent, please contact Atlassian Support instead at <http://support.atlassian.com>.

Summary*

Description

Name

Email

Submit Close

Atlassian JIRA (v6.1.2#6157-sha1:98c7292) · About JIRA · Report a problem · [Got Feedback?](#)

Powered by a free Atlassian JIRA evaluation license. Please consider purchasing it today.

WEB SERVICE APIS

- Application Programming Interface
- Web services
- Why are they good?
 - Pretty much an API available for every operation within JIRA
 - Push/pull data
 - Allows for full automation/integration
- SOAP/XML-RPC - Deprecated in JIRA 6.0
- REST - Introduced in JIRA 4.2
- Fantastic documentation
- Libraries available (official java, 3rd party .NET, python, etc)
- Available self hosted and on demand but need to be enabled

EXAMPLE - TRANSITIONING WORKFLOW

- Push workflow
- Jenkins CI
- Replicating functionality found in Bamboo but its FREE!
- Free Jenkins plugin available

EXAMPLE - TRANSITIONING WORKFLOW

Rapid Board - Workflow

The screenshot displays the JIRA Rapid Board interface for a project named "2014 Enhance 1". The board is titled "Board" and includes navigation tabs for "Plan", "Work", "Report", and "Board". The "QUICK FILTERS" section shows "Only My Issues" and "Recently Updated".


The workflow is organized into five columns:




- To Do:** Contains one issue, "SE...-1118", with a priority of "High" and a status of "To Do". It is assigned to a user and has a time estimate of 3h.
- In Progress:** Currently empty.
- Code Review:** Contains one issue, "SE...-1118", with a priority of "High" and a status of "Code Review". It is assigned to a user and has a time estimate of 3h.
- Ready for Build:** Contains three issues:
 - "SE...-1118" with a priority of "High" and a status of "Ready for Build". It is assigned to a user and has a time estimate of 0m.
 - "SE...-1118" with a priority of "High" and a status of "Ready for Build". It is assigned to a user and has a time estimate of 7h 45m.
 - "SE...-1118" with a priority of "High" and a status of "Ready for Build". It is assigned to a user and has a time estimate of 0m.
- Done:** Contains one issue, "SE...-1118", with a priority of "High" and a status of "Done". It is assigned to a user and has a time estimate of 0m.

The interface also includes a "Create Issue" button and a "Quick Search" bar at the top.

EXAMPLE - TRANSITIONING WORKFLOW

Jenkins Plugin

 **Jira Issue Updater**

Jira SOAP URL	<input type="text" value="https://augdemo.atlassian.net/rpc/soap/jirasoapservice-v2"/>	
Jira Username	<input type="text" value="jenkins"/>	
Jira Password	<input type="password" value="....."/>	
JQL for selecting issues to be updated	<input type="text" value="project='AUGDEMO' and status='Ready for Build' and fixVersion='\$VERSION_NAME'"/>	
Name of the workflow action to be executed	<input type="text" value="Built"/>	
Jira comment to be added	<input type="text" value="Added to build number \$BUILD_NUMBER."/>	

Delete

EXAMPLE - TRANSITIONING WORKFLOW

Jenkins Comment in JIRA

Activity

All

Comments


Work Log

History

Activity

Transitions

Commits

▼  Jenkins added a comment - 10/Feb/14 4:58 PM


Added to build number 12.

EXAMPLE - RELEASE NOTES

- All information is in JIRA - automate the generation of release notes
- Release notes functionality does exist within JIRA - but its not great
- Open source
 - GitHub
 - Highly customisable via templates
 - Designed for CI

EXAMPLE - RELEASE NOTES

Provide custom changelog field in JIRA




 AUGDEMO / AUGDEMO-117

Fix SQL date parsing issue in report REPORT-MANAGE-1

EditCommentAssignMore

Loop TransitionBegin TestingClose (Testing Not Req...Admin

Details

Type:	 New Feature	Status:	AWAITING TESTING (View Workflow)
Priority:	 Major	Resolution:	Unresolved
Affects Version/s:	r2.10.019.1	Fix Version/s:	r2.10.020
Component/s:	Reporting		
Labels:	None 		
Changelog Description:	Fixed an issue in the management report where dates were not being displayed correctly.		

EXAMPLE - RELEASE NOTES

Example of HTML output.

Release Notes

12-02-2014 - **r2.10.020.1**

Production Support 03

New Feature

[AUGDEMO-118]: Emails are now sent to system administrators when new users are created.

12-02-2014 - **r2.10.020**

Production Support 03

New Feature

[AUGDEMO-115]: KPI Report

[AUGDEMO-116]: Ability to add and remove users.

[AUGDEMO-129]: Ability to comment on users within the system.

Improvement

[AUGDEMO-120]: System colour scheme now meets WCAG AA contrast requirements.

Bug

[AUGDEMO-117]: Fixed an issue in the management report where dates were not being displayed correctly.

EXAMPLE - RELEASE NOTES

Multiple formats.

```
=====
12-02-2014 r2.10.020.1 - Production Support 03
=====
- [SEWPAC-118] (New Feature) Emails are now sent to system administrators when new users are created.

=====
12-02-2014 r2.10.020 - Production Support 03
=====
- [SEWPAC-115] (New Feature) KPI Report
- [SEWPAC-116] (New Feature) Ability to add and remove users.
- [SEWPAC-117] (Bug) Fixed an issue in the management report where dates were not being displayed correctly.
- [SEWPAC-120] (Improvement) System colour scheme now meets WCAG AA contrast requirements.
- [SEWPAC-129] (New Feature) Ability to comment on users within the system.
```

EXAMPLE - UPDATING JIRA FIELDS

- No idea what to do here
- Something thats not CI

WEBHOOKS

- Introduced in JIRA 5.2
- Send data to a URL
- Event driven
- Why are they good?
 - No need to write complex integration code
 - No need to poll for changes
- Available self hosted and on demand
- Configured through JIRA front end

CONFIGURATION

Name *

URL *

Exclude details ☐ Exclude issue details from the POST to URL

JQL ☒

[Syntax help](#)

JQL Filter for issue events that would trigger the webhook.

Events ☐ All issue events

☒ Issue Created

☒ Issue Deleted

☒ Issue Updated

☐ Worklog Updated

[Cancel](#)

EXAMPLE - RECRUITMENT/SCREENING

- Using JIRA for recruitment
- Issue a assessment to an applicant for screening
- Not possible to create assessments within JIRA
- Use the web service API to record assessment scores in JIRA

CONCLUSION

- Issue Collector, APIs, Webhooks
- Easy to use and fully featured
- Limitless possibilities for integration
- Automate where possible

ANY QUESTIONS?