

# ARCAD-Skipper JIRA add-on

## Developer Documentation

### Version 0.11

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#### HOW IT WORKS?

##### ABSTRACT

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The main goal of the ARCAD-Skipper Jira add-on is to create a synchronization between JIRA issues and ARCAD Documents (Incident Report, Change Request and Maintenance Report). The JIRA system is considered as the master system and ARCAD as the slave one. This means that all the issues have to be first created into the JIRA server before being created into ARCAD.

There are two synchronization operations:

- The creation of document into ARCAD from a JIRA issue (JIRA to ARCAD Direction)
- The execution of issue transition according to the ARCAD Document status (ARCAD to JIRA direction)

The main advantages of such a solution are:

- The management of the entire synchronization process uses only the JIRA add-on (no need to install other product) and the command line processor
- No need to create particular JIRA issue type or custom field
- The administrator can choose when he wants to create ARCAD Document
- This choice could be different for each issue Type/Project

##### WORKING PRINCIPLE

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The ARCAD-Skipper add-on is provided with four major elements:

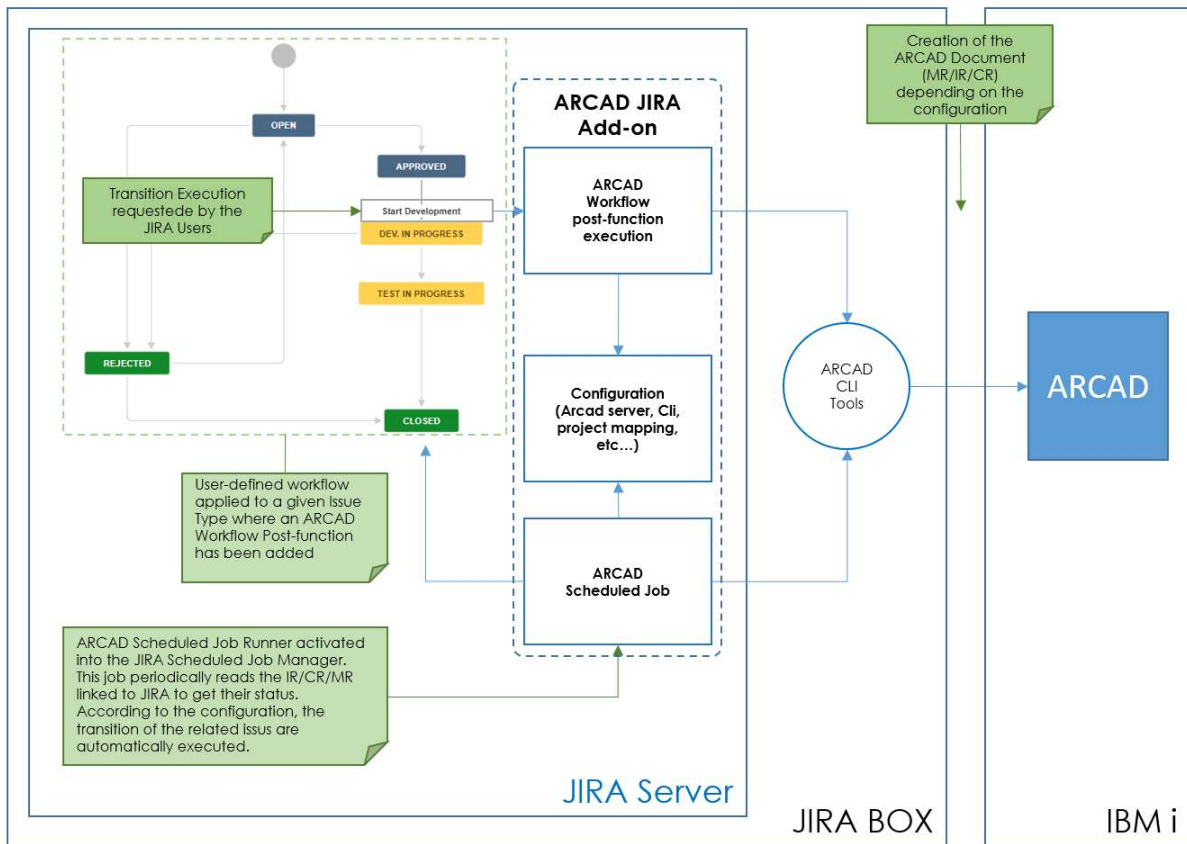
- One Workflow Post Function
- One Scheduled Job
- One Listener Action
- A command line processor

The Workflow Post Function allows the user to automatically create an ARCAD document from a JIRA issue at the particular point of the related JIRA issue lifecycle.

The Scheduled Job regularly retrieves information from the ARCAD system to attempt to make the related issue's workflow progress.

The command line processor is an external tool that allows to make the JIRA add-on communicate with the ARCAD Server.

The Listener Action allows the user to automatically update the status of an ARCAD document according to the change of an Issue status change.



## ARCAD DOCUMENT MANAGEMENT

A Workflow Post function is a function that is executed after a particular transition of a given issue has been executed. The JIRA administrator can add this function to the transition he wants.

If our post function is added to a transition, when this transition is executed, it will be executed to create or update the related ARCAD document.

The type of the document that will be created depends on the configuration (see Document Mapping Configuration).

This execution is also conditioned by the fact that the parent project of the given issue has been mapped to an ARCAD Version (see Project Mapping configuration)

So the Workflow Post Function management rules are the following:

1. Get the parent Project
2. Find if a Project Mapping Entry exists
3. If a Project Mapping Entry exists
  - a. Find if a Document Mapping Entry exists
  - b. If such an entry exists,
    - i. Get the type of document that has to be created or updated
    - ii. Test if a related ARCAD Document exists
      1. If such a document exists, update it

2. If such a document does not exist, create it according to the document type defined by the Document Mapping Entry
  - c. Else
    - i. Do Nothing
4. Else
  - a. Do Nothing

## TRANSITION MANAGEMENT

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The scheduler Job execution retrieves information about ARCAD Document linked to a JIRA issue:

For each document (IR, CR or MR)

- Get the ARCAD Status
- Find if a Transition Mapping Entry exists
- If such of entry exists
  - Get the transition ID to be executed
  - Try to execute this transition on the issue's workflow
- Else
  - Do Nothing

## UPDATE STATUS MANAGEMENT

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A listener is an action that is executed as soon as a field value of an issue is changed. The JIRA administrator can add this listener to the system.

If a JIRA user changes the status of an issue that is linked to an ARCAD document, our listener is informed about this change and update the status of the related ARCAD document.

So, the Listener Management Rules are the following:

5. Get the parent Project
6. Get the Issue Type
7. Get the current Issue Status
8. Find if a Status Mapping Entry exists
9. If a Status Mapping Entry exists
  - a. Find if a Project Mapping Entry exists
  - b. If a Project Mapping Entry exists
    - i. Find if a Document Mapping Entry exists
    - ii. If such an entry exists,
      1. Get the type of document that has to be created or updated
      2. Test if a related ARCAD Document exists
        - a. If such a document exists
          - i. update its status according to the Status Mapping Entry
        - b. Else
          - i. Do nothing
    - iii.
    - iv. Else
      1. Do nothing
  - c. Else
    - i. Do Nothing
10. Else
  - a. Do Nothing

## CONFIGURATION

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To make this add-on correctly the administrator has to configure it.

### ARCAD Server Configuration

This configuration is used to define the connection information used to reach the ARCAD server on which the document will be created/updated

### Command Line Configuration

This configuration allows the administrator to define the required information to execute the Command Line tools

### Options

This configuration allows the administrator to define the required information to execute the Command Line tools

### Project Mapping Configuration

This configuration allows the administrator to link a given JIRA Project to an ARCAD Application or Version. This information will be used during the ARCAD Document Management:

To define if an issue has to be linked to an ARCAD Document

To get the application to which the IRs and CRs have to be linked during the creation stage

### The Document Mapping Configuration

This configuration allows the administrator to map the Issue Type of a mapped project to an ARCAD Document Type.

This information will be used to define which type of document has to be created during the creation stage according to the project and the type of the related issue

### The Transition Mapping Configuration

This configuration allows the administrator to map the status of an ARCAD document to an available transition of a given issue type

This information will be used by the Scheduled Job to define which transition has to be executed in response of a given ARCAD document status.

### The Status Mapping Configuration

This configuration allows the administrator to map the available status of a given Issue Type of a given project to the status of an ARCAD document

This information will be used by the listener to update the status of an ARCAD Document in response of the change of an issue status.

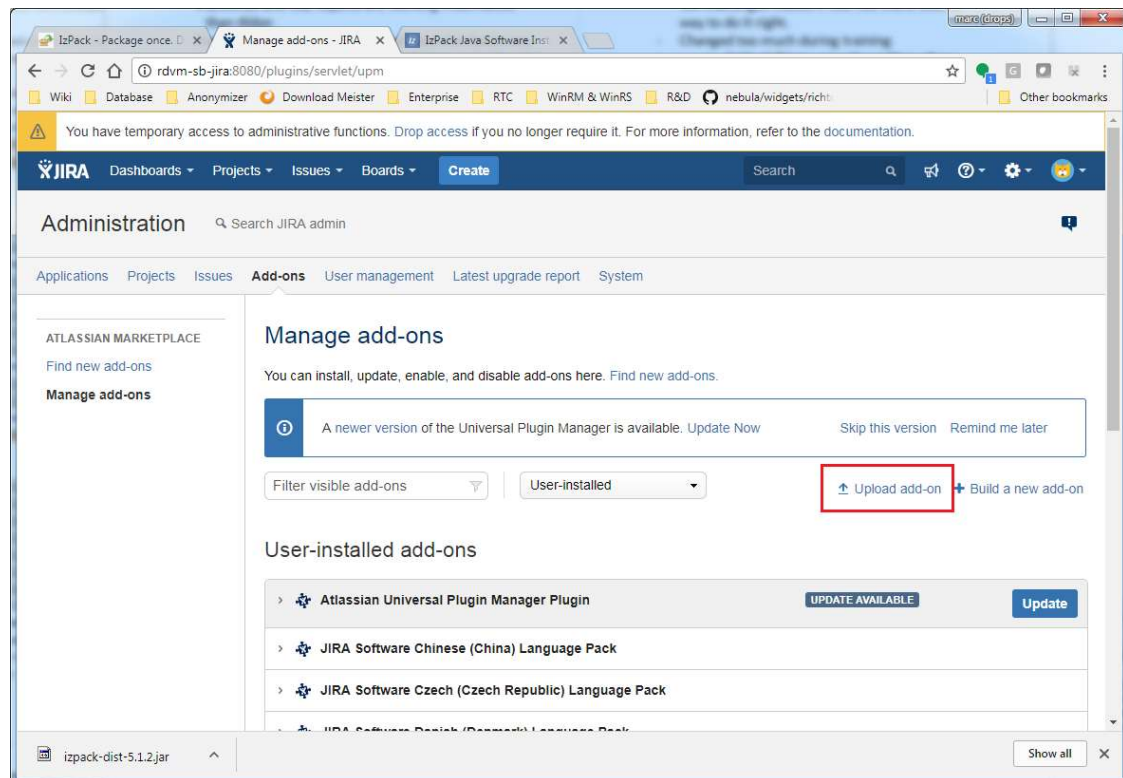
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## DEVELOPER DOCUMENTATION

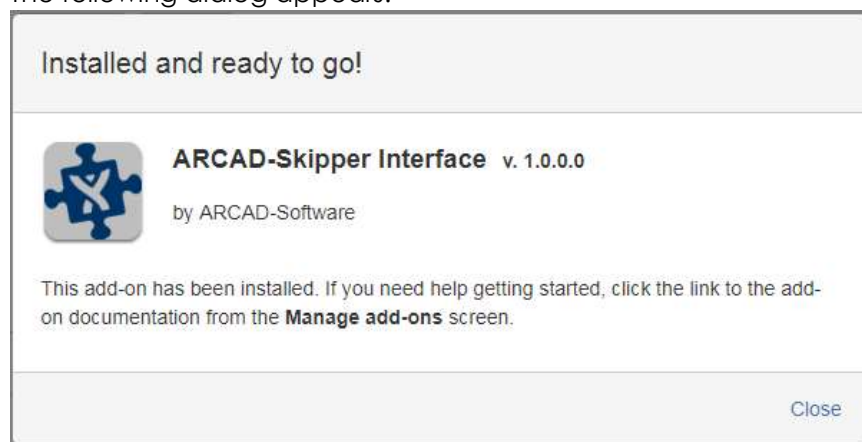
### INSTALLING JIRA ADD-ONS

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1. Go to the UMP (JIRA Administration | add-ons)
2. Select the Manage add-ons section
3. Click on Upload add-on



4. On the "Upload add-on" dialog, click "**Chose file**"
5. Select the "arcad.mreport-1.x.x.x.jar" file
6. Click on "**Upload**" and wait for the installation
7. The following dialog appears:



8. Click on **Close**
9. The "ARCAD-Skipper Interface" add-on now appears in the "User-installed add-ons" list (refresh the page if necessary). Note that this add-ons appears as disable:

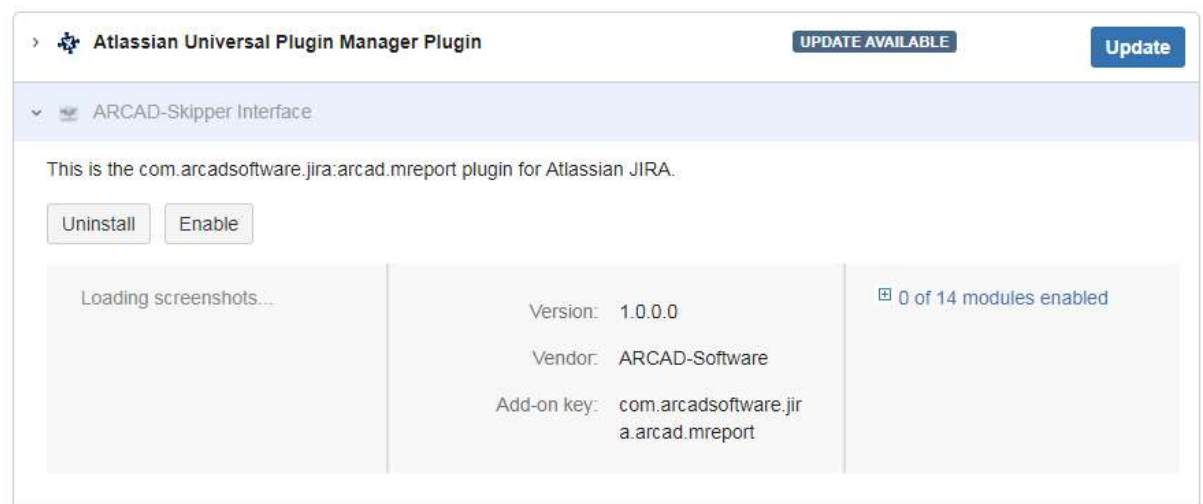
## User-installed add-ons



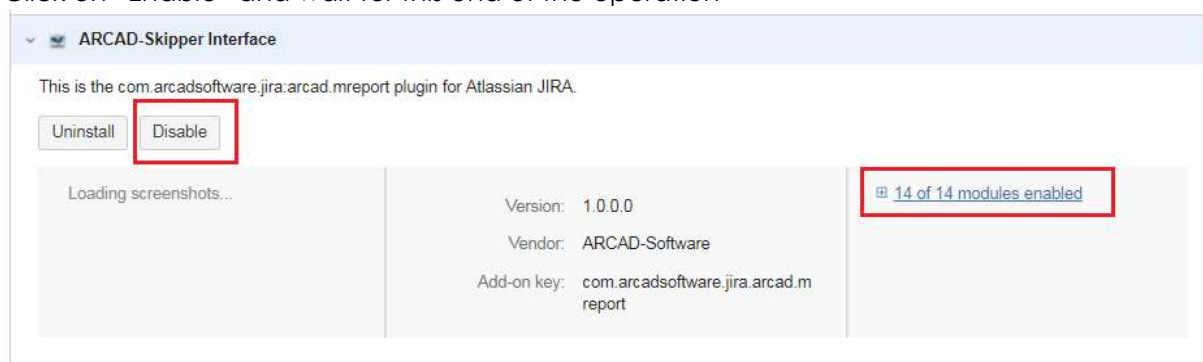
### ACTIVATING THE ADD-ON

1. Expand the "ARCAD-Skipper interface" add-on

## User-installed add-ons



2. Click on "Enable" and wait for this end of the operation



3. If no error occurred, 14 (or 12 in production version) modules will be marked as enabled and the **Enable** button will be replaced by the "**Disable**" button. The add-on is now installed and enabled.
4. Refresh the page

The screenshot shows the JIRA Administration interface. At the top, there's a navigation bar with 'JIRA' logo and links for Dashboards, Projects, Issues, Boards, and a 'Create' button. Below this is the 'Administration' header with a search bar. The main navigation tabs include Applications, Projects, Issues, Add-ons (selected), User management, Latest upgrade report, and System. On the left sidebar, under 'ATLASSIAN MARKETPLACE', there's a 'Manage add-ons' link. Below it, a new section 'ARCAD CONFIGURATION' is highlighted with a red box, containing links for 'ARCAD Server Configuration', 'Command Line Configuration', 'Options', 'Job Retriever Configuration', 'Project Mapping Settings', 'Document Mapping Settings', and 'Transition Mapping Settings'. The main content area is titled 'Manage add-ons' and includes a sub-header 'User-installed add-ons'. It features two filters: 'Filter visible add-ons' and 'User-installed'. Below these, a list of installed add-ons is shown, including 'Atlassian Universal Plugin Manager Plugin', 'ARCAD-Skipper Interface', 'JIRA Software Chinese (China) Language Pack', and 'JIRA Software Czech (Czech Republic) Language Pack'.

5. A new ARCAD CONFIGURATION section now appears on the left side

## CONFIGURING THE ADD-ON

### ARCAD Server configuration

1. Click on **ARCAD Server Configuration** link
2. The following form appears

The screenshot shows the 'ARCAD Server Configuration' form. On the left sidebar, under 'ATLASSIAN MARKETPLACE', there's a 'Manage add-ons' link. Below it, the 'ARCAD CONFIGURATION' section is expanded, and 'ARCAD Server Configuration' is highlighted. The main content area is titled 'Server Definition' and contains the following fields:
 

- Server**: A text input field containing 'ARCADDEV'.
- Instance**: A text input field containing 'AD'.
- User**: A text input field containing 'MARC'.
- Password**: A text input field with masked characters (dots).
- Language**: A dropdown menu set to 'ENG'.
- CCSID**: A text input field containing '37'.

 At the bottom of the form, there are two buttons: 'Save' and 'test connection'.

3. Enter the connection values
  - Server : The DNS or IP Address or the ARCAD Server
  - Instance : The ARCVAD Instance you want to reach
  - User : A Valid ARCAD Login

Password : The password of the defined user  
 Language : The language used to communicate with the ARCAD Server  
 CCSID : The CCSID of the connection Job

- Click on **Save** to save your values



ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

ARCAD CONFIGURATION

ARCAD Server Configuration

Command Line Configuration

Options

Job Retriever Configuration

Project Mapping Settings

Document Mapping Settings

Transition Mapping Settings

Test CLI Command

Test JOB

**Server Definition Configuration**

The Server Configuration has been successfully saved.

Server Definition

Server\* ARCADDEV

Instance AD

User\* MARC

Password\* .....

Language ENG

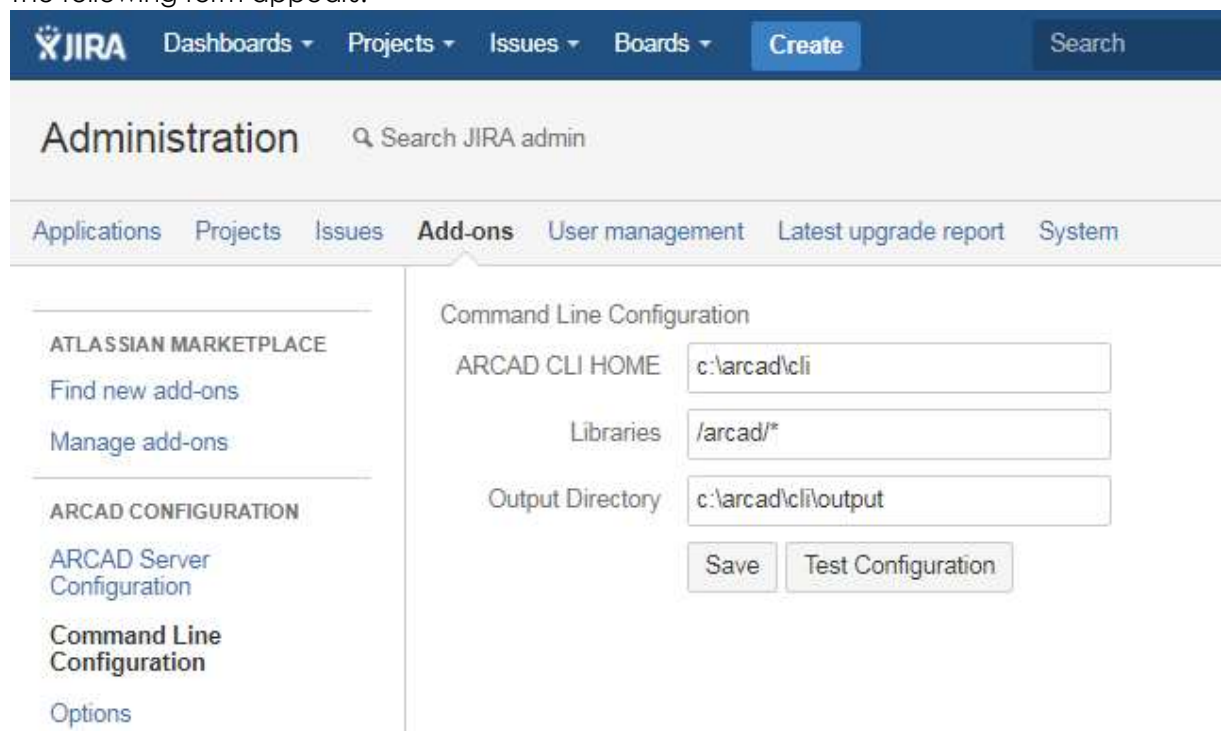
CCSID 37

Save test connection

- An information box appears to inform you that the values have been correctly saved.

### Command Line Configuration

- Click on **Command Line Configuration** link
- The following form appears:



JIRA Dashboards Projects Issues Boards Create Search

Administration Search JIRA admin

Applications Projects Issues Add-ons User management Latest upgrade report System

ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

ARCAD CONFIGURATION

ARCAD Server Configuration

**Command Line Configuration**

Options

Command Line Configuration

ARCAD CLI HOME c:\arcad\cli

Libraries /arcad/\*

Output Directory c:\arcad\cli\output

Save Test Configuration

- Enter the command line values  
**ARCAD CLI HOME** : The root directory where the Command Line Tools has been installed  
**Libraries** : The path to the directories where the necessary third party java libraries are installed.

- It could be absolute or relative paths. If a path starts with the character "/", it will be considered as a relative path and the absolute path used instead will be : <ARCAD CLI HOME>/<the-relative-path>
- If you want to use the entire content of the defined directory, use the character "\*" instead entering one by one all the jar files to use. For example "/arcad/\*" indicates that the command line tools has to include all the jar files contained in the c:\arcad\cli\arcad directory into its execution classpath.
- If you want to define multiple libraries, just enter them separated with the character ","
- NOTE : the /libs/\* reference is automatically added

**Output Directory** : The directory where the output execution files will be stored

6. Click on **Save** to save your values

**Server Definition Configuration**

The Server Configuration has been successfully saved.

Server Definition

Server\*

Instance

User\*

Password\*

Language

CCSID

7. An information box appears to inform you that the values have been correctly saved.

**Command Line Configuration Save**

The configuration has been successfully saved.

Command Line Configuration

ARCAD CLI HOME

Libraries

Output Directory

8. Click on **Test Configuration** to test if the value are corrects
9. If the values are correct and if the Command Line Tools can be correctly executed, the following form appears :

<b>ATLASSIAN MARKETPLACE</b> <a href="#">Find new add-ons</a> <a href="#">Manage add-ons</a>	<b>Available Service List</b>  Service File Name: services.xml not found Search Service File Name in c:\arcad\cli\services -> Scanning services in c:\arcad\cli\services\arcad_core_services.xml -> Scanning services in c:\arcad\cli\services\builder_services.xml -> Scanning services in c:\arcad\cli\services\jira_services.xml <b>Service List:</b> jiraListProject mrUpdate crUpdate mrLinkedList mrList irCreate crCreate arcExecuteMacrocommand mrCreate irList irUpdate docStatusList applist crList bldExecute
<b>ARCAD CONFIGURATION</b> <a href="#">ARCAD Server Configuration</a> <a href="#">Command Line Configuration</a> <a href="#">Options</a> <a href="#">Job Retriever Configuration</a> <a href="#">Project Mapping Settings</a> <a href="#">Document Mapping Settings</a> <a href="#">Transition Mapping Settings</a> <a href="#">Test CLI Command</a> <a href="#">Test JOB</a>	<div>Return</div>

Note that the list of the available services could be a little bit different according to what has been installed.

10. If the values are NOT correct and if it's not possible to correctly execute the Command Line Tools, the following form appears :

<b>Available Service List</b>  An error occurred during the execution of the following command: <b>Command:</b> <pre>java -cp c:\arcad\clix\afs-client-cli.jar;c:\arcad\clix\arcad/*;c:\arcad\clix\libs/* com.arcadsoftware.cli.CLI list</pre> <b>Error:</b> <pre>Cannot run program "java" (in directory "c:\arcad\clix"): CreateProcess error=267, Nom de répertoire non valide</pre> Please, check that the Command Line Settings has been correctly set.  <div>config.admin.cli.valid.return</div>
---

Note the error message could be a little bit different according to the error type

11. Click on **Return** to go back to the configuration form.

## Options

1. Click on **the Options** link
2. The following form appears:

3. Enter the options values:

**Issue Format** : The issue Format is a character string that will be used as a prefix of the summary text for the IR and CR document. This string must contain the special substitution variable **\${key}**. While the creation this variable will be replaced by the related issue key. This value will also be used to retrieve the IR/CR that has been created from JIRA

If the value is empty or does not contain the **\${key}** variable, saving this value will fail.

4. Click on **Save** to save your values

5. An information box appears to inform you that the values have been correctly saved.

## Project Mapping Settings

1. Click on the **Project Mapping Settings** link
2. The following form appears:

3. To add a new entry, click on **Add New Entry**, the following form appears:

ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

ARCAD CONFIGURATION

ARCAD Server Configuration

Command Line Configuration

Options

Job Retriever Configuration

Project Mapping Settings

Project Mapping Configuration

JIRA Project

ARCAD Interface

Application

Environment ID.

Version Number

Save

4. **JIRA Project** : The JIRA project to which you want to add an entry. Please note that the dropdown list box contains all the project declared in JIRA.

5. **Application** : The related ARCAD Application

**Environment ID.** : The Environment ID. On which the version has been opened

**Version Number** : The Version Number

The application value will be used as the parent application of the IR/CR created from the given project

The Application/Environment ID/Version Number will be used to automatically add a link between a newly created Maintenance Report to an ARCAD Version.

6. Click on **Save** to save the new entry, the new entry now appears into the list

Administration

Search JIRA admin

Applications

Projects

Issues

Add-ons

User management

Latest upgrade report

System

ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

ARCAD CONFIGURATION

ARCAD Server Configuration

Command Line Configuration

Options



Project Mapping Settings

Document Mapping Settings

Transition Mapping Settings

Job Retriever Configuration

Add a new Entry

JIRA Project	Application	Environment ID.	Version Number	Actions
ARI	BUILDER	D	06.00.00	 

7. To Edit an entry, click on the image [edit] in the Action column:

ATLASSIAN MARKETPLACE  
[Find new add-ons](#)  
[Manage add-ons](#)

ARCAD CONFIGURATION  
[ARCAD Server Configuration](#)  
[Command Line Configuration](#)  
[Options](#)

Project Mapping Configuration  
JIRA Project   
Application   
Environment ID.   
Version Number

8. The JIRA project can no longer be modified but you can change the others values (To change the project, delete the entry and recreate it)
9. Click on **Save** to save your modifications
10. To Delete an entry, click on the image [delete] in the Action column:
11. The entry is removed from the list

### Document Mapping Settings

1. Click on the **Document Mapping Settings** link
2. The following form appears:

ATLASSIAN MARKETPLACE  
[Find new add-ons](#)  
[Manage add-ons](#)

ARCAD CONFIGURATION  
[ARCAD Server Configuration](#)  
[Command Line Configuration](#)  
[Options](#)  
[Project Mapping Settings](#)  
**[Document Mapping Settings](#)**  
[Transition Mapping Settings](#)  
[Job Retriever Configuration](#)

JIRA Project	Issue Type Id.	ARCAD Document	Actions
--------------	----------------	----------------	---------

3. To add a new entry, click on **Add New Entry**, the following form appears:

ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

ARCAD CONFIGURATION

ARCAD Server Configuration

Command Line Configuration

Options

Project Mapping Settings

Document Mapping Settings

Transition Mapping Settings

Job Retriever Configuration

Project Mapping Configuration

JIRA Project

Issue Type Id.

ARCAD Document

Maintenance Report

Save

4. **JIRA Project** : The JIRA project to which you want to add an entry. Please note that the JIRA Project dropdown list box contains only JIRA projects that have been linked to an ARCAD application in the **Project Mapping Configuration** part
5. **Issue Type Id.** : The Issue Types that are used by the selected JIRA Project. Note that you must first select a JIRA project to get this dropdown list box populated.  
**ARCAD Document** : This dropdown list box contains the list of the available ARCAD document
6. Click on **Save** to save the new entry, the new entry now appears into the list

ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

ARCAD CONFIGURATION

ARCAD Server Configuration

Command Line Configuration

Options

Project Mapping Settings

Document Mapping Settings

Transition Mapping Settings

Job Retriever Configuration



Document Mapping Entry Save

✓

The Document Mapping Entry has been successfully saved

×

Add a new Entry

JIRA Project	Issue Type Id.	ARCAD Document	Actions
ARI	Epic [10001]	MR	 

7. To Edit an entry, click on the image [edit] in the Action column:

ATLASSIAN MARKETPLACE  
[Find new add-ons](#)  
[Manage add-ons](#)

ARCAD CONFIGURATION  
[ARCAD Server Configuration](#)  
[Command Line Configuration](#)  
[Options](#)  
[Project Mapping Settings](#)  
[Document Mapping Settings](#)  
[Transition Mapping Settings](#)  
[Job Retriever Configuration](#)

### Project Mapping Configuration

JIRA Project

ARCAD Interface ▼

Issue Type Id.

Epic ▼

ARCAD Document

Maintenance Report ▼

Save

8. The JIRA project and the Issue Type are no longer modifiable but you can change the others values (To change the Jira Project or the Issue Type Id. , delete the entry and recreate it)
9. Click on **Save** to save your modifications
10. To Delete an entry, click on the image [delete] in the Action column:
11. The entry is removed from the list

### Transition Mapping Settings

1. Click on the **Transition Mapping Settings** link
2. The following form appears:

ATLASSIAN MARKETPLACE  
[Find new add-ons](#)  
[Manage add-ons](#)

ARCAD CONFIGURATION  
[ARCAD Server Configuration](#)  
[Command Line Configuration](#)  
[Options](#)  
[Project Mapping Settings](#)  
[Document Mapping Settings](#)  
**[Transition Mapping Settings](#)**  
[Job Retriever Configuration](#)

Add a new Entry

JIRA Project	Issue Type Id.	Document Status	Transition	Actions
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3. To add a new entry, click on **Add New Entry**, the following form appears:

ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

ARCAD CONFIGURATION

ARCAD Server Configuration

Command Line Configuration

Options

Project Mapping Settings

Document Mapping Settings

Transition Mapping Settings

Job Retriever Configuration

Status/Transition Mapping

JIRA Project

ARCAD Interface

Issue Type Id.

Epic

Document Status

CLO(Closed)

Transition

Done

Save

- JIRA Project** : The JIRA project to which you want to add an entry. Please note that the JIRA Project dropdown list box contains only JIRA projects that have been linked to an ARCAD application in the **Project Mapping Configuration** part

**Issue Type Id.** : The Issue Types that are used by the selected JIRA Project **AND that has been mapped to an ARCAD Document**. Note that you must first select a JIRA project to get this dropdown list box populated.

**Document Status** : This dropdown list box contains the list of the available ARCAD document status. Those status depend on the Type of ARCAD documents. This document Type is retrieved from the Document Mapping using Jira Project and Issue Type as a key.

**Transition** : This dropdown list box contains the list of the available transitions for the selected Issue Type for the selected JIRA project.

- Click on **Save** to save the new entry, the new entry now appears into the list

ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

ARCAD CONFIGURATION

ARCAD Server Configuration

Command Line Configuration

Options

Project Mapping Settings

Document Mapping Settings

Transition Mapping Settings

Job Retriever Configuration



Transition Mapping Entry Save

✓

The Transition Mapping Entry has been successfully saved

×

Add a new Entry

JIRA Project	Issue Type Id.	Document Status	Transition	Actions
ARI	Epic [10001]	CLO	Done [31]	 

- To Edit an entry, click on the image  in the Action column:

ATLASSIAN MARKETPLACE  
[Find new add-ons](#)  
[Manage add-ons](#)

ARCAD CONFIGURATION  
[ARCAD Server Configuration](#)  
[Command Line Configuration](#)  
[Options](#)  
[Project Mapping Settings](#)  
[Document Mapping Settings](#)  
[Transition Mapping Settings](#)  
[Job Retriever Configuration](#)

### Project Mapping Configuration

JIRA Project

ARCAD Interface ▼


Issue Type Id.

Epic ▼

ARCAD Document

Maintenance Report ▼

Save

7. The JIRA project, the Issue Type and the Document Status are no longer modifiable but you can change the others values (To change the Jira Project or the Issue Type Id. Or Document Status, delete the entry and recreate it)
8. Click on **Save** to save your modifications
9. To Delete an entry, click on the image  in the Action column:
10. The entry is removed from the list

### Status Mapping Settings

11. Click on the **Status Mapping Settings** link
12. The following form appears:

ATLASSIAN MARKETPLACE  
[Find new add-ons](#)  
[Manage add-ons](#)

ARCAD CONFIGURATION  
[ARCAD Server Configuration](#)  
[Command Line Configuration](#)  
[Options](#)  
[Project Mapping Settings](#)  
[Document Mapping Settings](#)  
[Transition Mapping Settings](#)  
**[Status Mapping Settings](#)**  
[Job Retriever Configuration](#)

Add a new Entry

JIRA Project	Issue Type Id.	JIRA Status	Document Status	Actions
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13. To add a new entry, click on **Add New Entry**, the following form appears:

ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

ARCAD CONFIGURATION

ARCAD Server Configuration

Command Line Configuration

Options

Project Mapping Settings

Document Mapping Settings

Transition Mapping Settings

Status Mapping Settings

Job Retriever Configuration

Jira Status/ARCAD Status Mapping

JIRA Project

TEST

Issue Type Id.

Tâche

JIRA Status

In TEST

Document Status

TST(To be tested (not documented

Save

**14. JIRA Project** : The JIRA project to which you want to add an entry. Please note that the JIRA Project dropdown list box contains only JIRA projects that have been linked to an ARCAD application in the **Project Mapping Configuration** part

**Issue Type Id.** : The Issue Types that are used by the selected JIRA Project **AND that has been mapped to an ARCAD Document**. Note that you must first select a JIRA project to get this dropdown list box populated.

**JIRA Status** : This dropdown list box contains the list of the available transitions for the selected Issue Type for the selected JIRA project.

**Document Status** : This dropdown list box contains the list of the available ARCAD document status. Those status depend on the Type of ARCAD documents. This document Type is retrieved from the Document Mapping using Jira Project and Issue Type as a key.

**15. Click on **Save**** to save the new entry, the new entry now appears into the list

ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

ARCAD CONFIGURATION

ARCAD Server Configuration

Command Line Configuration

Options

Project Mapping Settings

Document Mapping Settings

Transition Mapping Settings

Status Mapping Settings



Job Retriever Configuration


✓

Transition Mapping Entry Save

The Transition Mapping Entry has been successfully saved

Add a new Entry

JIRA Project	Issue Type Id.	JIRA Status	Document Status	Actions
TEST	Tâche [10000]	In TEST [10003]	TST	 

**16. To Edit an entry**, click on the image  in the Action column:

ATLASSIAN MARKETPLACE

[Find new add-ons](#)

[Manage add-ons](#)

ARCAD CONFIGURATION

[ARCAD Server Configuration](#)

[Command Line Configuration](#)

[Options](#)

[Project Mapping Settings](#)

[Document Mapping Settings](#)

[Transition Mapping Settings](#)

[Status Mapping Settings](#)

[Job Retriever Configuration](#)

Jira Status/ARCAD Status Mapping

JIRA Project

TEST

Issue Type Id.

Tâche


JIRA Status

In TEST

Document Status

TST(To be tested (not documented

Save

- The JIRA project, the Issue Type and the Jira Status are no longer modifiable but you can change the others values (To change the Jira Project or the Issue Type Id. Or JIRA Status, delete the entry and recreate it)
- Click on **Save** to save your modifications
- To Delete an entry, click on the image  in the Action column:
- The entry is removed from the list

### Job Retriever Configuration

- Click on the **Job Retriever Configuration** link
- The following form appears:

ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

ARCAD CONFIGURATION

ARCAD Server Configuration

Command Line Configuration

Options

Project Mapping Settings

Document Mapping Settings

Transition Mapping Settings

**Job Retriever Configuration**

Job Retriever Configuration

Delay\* 2000

Save Start Job Stop

3. Enter the options values:

**Delay** : This value defines, in milliseconds, the time between two consecutive executions of the job.

4. Click on **Save** to save your values

ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

ARCAD CONFIGURATION

ARCAD Server Configuration

Command Line Configuration

Options

Project Mapping Settings

Document Mapping Settings

Transition Mapping Settings

Job Retriever Configuration

Job Retriever Settings

The Job Retriever Settings have been successfully saved.

Delay\* 2000

Save

5. An information box appears to inform you that the values have been correctly saved.
6. On the edition form, click on **Start Job** to register the job into the JIRA Scheduler (Note that this button is enabled only if the job is not already started).
7. Because the retriever job makes actions on the workflows, it's necessary to define the user that will complete those actions. So, when starting the job, the add-on ask you to specify a user :

ATLASSIAN MARKETPLACE  
[Find new add-ons](#)  
[Manage add-ons](#)

ARCAD CONFIGURATION  
ARCAD Server Configuration  
Command Line Configuration  
Options  
Project Mapping Settings  
Document Mapping Settings  
Transition Mapping Settings  
Job Retriever Configuration

Job User  
Login\*   
Password\*

8. Enter the login and the password of an user that have enough rights to execute transition on all the workflows
9. Click on Start to start the job. If the job has been successfully started, the following form appears:

ATLASSIAN MARKETPLACE  
[Find new add-ons](#)  
[Manage add-ons](#)

ARCAD CONFIGURATION  
ARCAD Server Configuration  
Command Line Configuration  
Options  
Project Mapping Settings  
Document Mapping Settings  
Transition Mapping Settings  
Job Retriever Configuration

☒
**Start Job**
×

The Job Retriever have been successfully started.

10. Click on **Return** to go back to the Job Retriever Configuration form. The **Start** button is now disabled and the **Stop Job** button is now enabled.
11. Click on **Stop Job** to stop the job

Note: when the job is started, you can follow its execution into the **Scheduler Details** section of the **System** configuration part



- General configuration
- Find more admin tools
- SYSTEM SUPPORT
  - System info
  - Instrumentation
  - Database monitoring
  - Integrity checker

Scheduler Administration

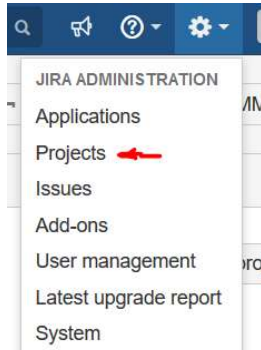
This page shows you the properties of the JIRA internal scheduler, as well as the scheduled jobs and their triggers.

Status	Group / Name	Jobs	Schedule	Actions
✓	ArcadJobRunner.key	1 job	interval	Show more
✓	CompatibilityPluginScheduler.JobRunnerKey.Service Pr...	1 job	interval	Show more
✓	CompatibilityPluginScheduler.JobRunnerKey.com.atlassi...	1 job	interval	Show more

## HOW TO CONFIGURE JIRA?

### CONNECTING A WORKFLOW TRANSITION TO THE CREATION OF AN ARCAD DOCUMENT

This must be done from the Workflow Configuration of the Jira project that need to interact with ARCAD Skipper. To do so, you have to Open the Jira Administration/Projects



It will show the list of Projects. Enter the one you want to configure by a click on it name  
Project list

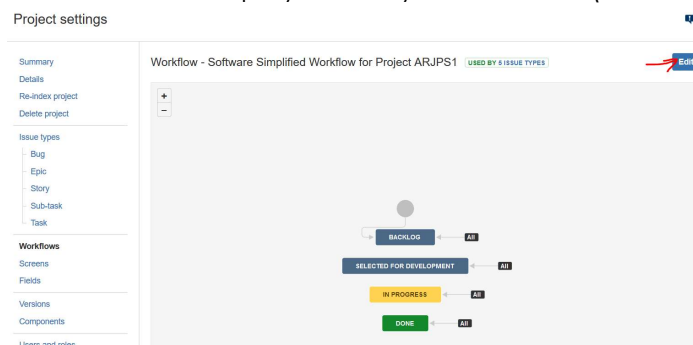
Name	Key	Project Type	URL
 ARCAD MMO1	ARJPS1	 Software	No URL
 ARJPS2	JA	 Software	No URL

Different configuration section of this project are displayed. Select the Workflows Part and then click on the Workflow you want to configure

Project settings

A screenshot of the Jira Project Settings page for project ARJPS1. The left sidebar shows various configuration sections: Summary, Details, Issue types, Workflows (highlighted with a red arrow), Screens, Fields, Versions, and Components. The main content area shows the 'Issue types' section, which includes a list of issue types (Bug, Epic, Story, Sub-task, Task) and a 'Scheme' dropdown set to 'ARJPS1: Kanban Issue Type Scheme' (highlighted with a red arrow). There are also sections for 'Version' and 'Component'.

The Workflow is displayed and you can Edit it (use Edit button upper right)



Mainly, what you have to do is to select the **Transition** that correspond to you need. Here for example I can decide that the ARCAD Maintenance Report (MR) must be created when the Task is created. In This case anytime you will create a task into this project, a corresponding MR will be create on the IBMi.

### Connect the creation of a Task to a Creation of an MR

Into the Edition screen of the Workflow, select the transition “Create” and enter the “Post functions” menu.

Project settings

Workflow - Software Simplified Workflow for Project ARJPS1 USED BY 5 ISSUE TYPES Exit draft

**Summary**  
Details  
Re-index project  
Delete project

**Issue types**  
Bug  
Epic  
Story  
Sub-task  
Task

**Workflows**  
Screens  
Fields  
Versions  
Components  
Users and roles  
Permissions  
Issue Security

**Workflow Diagram:**  
Create (red arrow) → BACKLOG → All → SELECTED FOR DEVELOPMENT → All → IN PROGRESS → All → DONE

**Transition: Create Options:**  
Edit Delete transition  
Options  
Properties (1)  
Validators (1)  
Post Functions (4) (red arrow)  
Learn more

Select “Add Post function” to add the ARCAD required function

**Workflow Editor: Create Transition**

**Post Functions:**  
The following will be processed after the transition occurs (red arrow points to 'Add post function')  
1. Creates the issue originally.  
2. Re-index an issue to keep indexes in sync with the database.  
3. **Type:** class  
**Class:** com.atlassian.jira.workflow.function.event.FireIssueEventFunction  
**Arguments:**  
eventTypeId = 1  
4. Create or Update the related ARCAD Document

Select the ARCAD-Skipper post function and click Add to Add it

Administration Search JIRA admin

Applications Projects Issues Add-ons User management Latest upgrade report System

### Add Post Function To Transition

Name	Description
<input checked="" type="radio"/> ARCAD-Skipper Document Creation Post Function	This post function allows to create an ARCAD SKipper Document on transition
<input type="radio"/> Assign to Current User	Assigns the issue to the current user if the current user has the 'Assignable User'
<input type="radio"/> Assign to Lead Developer	Assigns the issue to the project/component lead developer
<input type="radio"/> Assign to Reporter	Assigns the issue to the reporter
<input type="radio"/> Create Comment	Adds a comment to an issue if one is entered during a transition.
<input type="radio"/> Create Perforce Job Function	Creates a Perforce Job (if required) after completing the workflow transition.
<input type="radio"/> Fire Event	Fires an event that can be processed by listeners.
<input type="radio"/> Notify HipChat	Send a notification to one or more HipChat rooms.
<input type="radio"/> Store Issue	Stores updates to an issue (no change history is created).
<input type="radio"/> Trigger a Webhook	If this post-function is executed, JIRA will post the issue content in JSON format
<input type="radio"/> Update Issue Field	Updates a simple issue field to a given value.
<input type="radio"/> Update Issue Status	Sets issue status to the linked status of the destination workflow step.

I then advice to push this function to the last position of Post functions list by using the position arrow

Validators 1 Post Functions 4

The following will be processed after the transition occurs Add post function

- Creates the issue originally.
- Re-index an issue to keep indexes in sync with the database.
- Create or Update the related ARCAD Document + - ✕
- Type:** class  
**Class:** com.atlassian.jira.workflow.function.event.FireIssueEventFunction  
**Arguments:**  
 eventTypeId = 1

WorkflowFunctionDown.jspa?atl\_token=B0LI-UECW-DD94-DH8794a89423deb9e31d9aa5fd3c...draft&workflowName=Software+ Simplified + Workflow + for + Project + ARUPS1&descriptorTab=postfunctions&workflowTransition=1&down=2

And finally, do not forget to "publish" the new workflow definition. (use the publish Button at the top)

## DECLARING THE UPDATE STATUS LISTENER

- Go to the System administration form:

Search Q 🔍 ? ⚙️ 👤

JIRA ADMINISTRATION

- Applications
- Projects
- Issues
- Add-ons
- User management
- System**

TEST

- In the Advanced Section click on Listeners

ADVANCED	"Pr
Indexing	Iss
Attachments	JQ
Events	Int
Analytics	Ho
WebHooks	Co
Listeners	Co
Services	All
Plugin Data Storage	Inl
REST API Browser	Au
	En

3. On the Add Listener section, enter the following value

Listeners ?

Listeners are used for performing certain actions whenever an event occurs in JIRA. For example, email notifications can be sent when an issue is updated, or the administrator notified when a user signs up. Some listeners are internal to JIRA, and you cannot modify their properties. You can also add your own listeners to JIRA.

Name / Class	Properties	Actions
<b>Mail Listener</b> (internal) com.atlassian.jira.event.listeners.mail.MailListener		
<b>Issue Assignment Listener</b> (internal) com.atlassian.jira.event.listeners.history.IssueAssignHistoryListener		
<b>Issue Index Listener</b> (internal) com.atlassian.jira.event.listeners.search.IssueIndexListener		

Add Listener ?

Add a new listener by entering a name and class below. You can then edit it to set properties.

Name

ARCAD Document Status Listener

Class

com.arcadsoftware.jira.arcad.mreport.listeners.ChangeStatusEventListener

> Built-in Listeners

Add

4. Click on Add

Listeners ?

Listeners are used for performing certain actions whenever an event occurs in JIRA. For example, email notifications can be sent when an issue is updated, or the administrator notified when a user signs up. Some listeners are internal to JIRA, and you cannot modify their properties. You can also add your own listeners to JIRA.

Name / Class	Properties	Actions
<b>Mail Listener</b> (internal) com.atlassian.jira.event.listeners.mail.MailListener		
<b>Issue Assignment Listener</b> (internal) com.atlassian.jira.event.listeners.history.IssueAssignHistoryListener		
<b>Issue Index Listener</b> (internal) com.atlassian.jira.event.listeners.search.IssueIndexListener		
<b>ARCAD Document Status Listener</b> com.arcadsoftware.jira.arcad.mreport.listeners.ChangeStatusEventListener		Delete

Add Listener ?

Add a new listener by entering a name and class below. You can then edit it to set properties.

Name

Class

> Built-in Listeners

Add

5. The new Listener has been added.

## GLOBAL CONFIGURATION PROCEDURE

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1. Install and enable the JIRA add-on
2. Install the ARCAD Cli Tools
3. Configure the ARCAD target Server
4. Configure the CLI access according to the CLI Installation
5. Configure the Options
6. Define the JIRA project you want to link to ARCAD
7. For each selected project
  - a. Add a Project Mapping Entry
  - b. Define which Issue Type of this project will generate an ARCAD Document
  - c. For each selected Issue Type
    - i. Define which kind of ARCAD document will be generated
    - ii. Define which transition the related ARCAD document Status has to be linked
    - iii. Add a Document Mapping Entry
    - iv. Add a Transition Mapping Entry
8. Configure the Job Retriever Options
9. Start the Retriever Job
10. Define which workflows have to be updated
11. For each selected workflow
  - a. Define which transition will trigger the ARCAD Document Generation
  - b. Add the ARCAD Workflow Post-Function to this transition