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Release Notes

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About Application Links

What is Application Links?

Application Links (AppLinks) is a plugin that allows you to link your JIRA, Confluence, FishEye, Crucible and Subversion applications. You can even choose to associate individual projects, spaces, reviews and repositories with each other. Then, when you add text into one of the applications, you can refer to a page, issue or source file using just a simple textual reference. You do not need to enter the full URL. The text is automatically linked to the correct project, space, review or repository.

An Example

- Let's say that your JIRA installation has a project called myProject.
- Let's also say that your Confluence installation has a space called mySpace, which contains all the documentation for myProject on JIRA.
- Using AppLinks, you have linked myProject to mySpace.
- Now, you can add the following markup to a JIRA issue in myProject: [Test Page].
- JIRA will automatically display the text with a link to the Confluence page called 'Test Page' in mySpace.

Resources

If you have a question about using Application Links, please contact our support team.

Other handy links:

- Application Links FAQ
- JIRA Issue Tracker for Application Links
- More about integrating your Atlassian applications

Download the Documentation

You can download the Application Links documentation in PDF, HTML or XML formats.

All Versions

AppLinks 2.1 Documentation
AppLinks 2.0 Documentation
AppLinks 1.x Documentation

Current released version
Application Links **2.1.0** is now available. See the Application Links 2.1 Release Notes

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- How can I find known issues and workarounds?
- Can I link two instances of the same application?
- I have 2 FishEye instances - can I link them to each other?
- Why don't my links show as links in JIRA?

Application Links Installation Guide

This page tells you how to install the Application Links (AppLinks) plugin into your Atlassian products.

On this page:

- Step 1. Check the System Requirements
  - Components
  - Version Compatibility Matrix
- Step 2. Download the AppLinks Plugin
- Step 3. Install AppLinks in JIRA
- Step 4. Install AppLinks in Confluence
- Step 5. Install AppLinks in FishEye and Crucible
- Next Step. Configure AppLinks

Step 1. Check the System Requirements

Components

You will need the following products to make use of Application Links:

- Two or more of the following: Confluence, JIRA, FishEye, Crucible and/or Subversion.
- The AppLinks plugin.

Version Compatibility Matrix

The matrix below shows the applications that support AppLinks. The applications are listed horizontally across the top and the AppLinks versions

are listed vertically on the left.

Version numbers in brackets, e.g. (3.0.1), show a **future** application release expected to support the relevant AppLinks version.

	Confluence	Crucible	FishEye	JIRA	Subversion
AppLinks 1.1	2.8.x	1.5.x	1.5.x	3.12.x	1.4
AppLinks 1.3	2.8.x 2.9.x 2.10.x Confluence 3.0.0 does not support Application Links.	1.5.x Crucible 1.6.x does not support Application Links.	1.5.x FishEye 1.6.x does not support Application Links.	3.12.x 3.13.0 JIRA 3.13.1 to 3.13.4 do not support Application Links.	1.4
AppLinks 2.0.1	3.0.1	2.0.0	2.0.0	3.13.5	1.4
AppLinks 2.1	3.0.1	2.0.0	2.0.0	4.0	1.4

Other useful links:

- AppLinks full version compatibility on the Atlassian Plugin Exchange
- Version matrix for the Atlassian Plugin Framework

Step 2. Download the AppLinks Plugin

1. Download AppLinks, along with its dependencies, as a simple zip archive from the Atlassian repository.
2. Unzip the archive into a location of your choice.

The AppLinks archive includes the Atlassian Shared Access Layer (SAL) JARs.

Step 3. Install AppLinks in JIRA

Refer to the compatibility matrix above.

Follow these steps if you want to install AppLinks into **JIRA 3.13.5**:

1. Stop your JIRA server.
2. Copy the following JARs into JIRA's installation directory at `<Installation Directory>/atlassian-jira/WEB-INF/lib`:
   - `applinks-api-x.x.x.jar`
   - `applinks-core-x.x.x.jar`
   - `applinks-legacyjira-plugin-x.x.x.jar`
   - `applinks-jira-common-x.x.x.jar`
   - `sal-api-x.x.x.jar`
   - `sal-core-x.x.x.jar`
   - `sal-legacyjira-plugin-x.x.x.jar`
   - `sal-spring-x.x.x.jar`
3. Restart JIRA.

Follow these steps if you want to install AppLinks into **JIRA 4.0.x**:

1. Stop your JIRA server.
2. Copy the following JAR into your {JIRA_HOME}`/plugins/installed-plugins` directory.
   - `applinks-jira-plugin-x.x.x.jar`
3. Restart JIRA.

The Shared Access Layer (SAL) is bundled with JIRA 4, so there's no need to install it.

Step 4. Install AppLinks in Confluence

Follow these steps if you want to install AppLinks into Confluence:

1. In Confluence's **Administration Console**, click '**Plugins**' then browse for and upload the following JAR:

    - `applinks-confluence-plugin-x.x.x.jar`
2. The AppLinks plugin should appear in the list of installed plugins. If not, restart Confluence.

The Shared Access Layer (SAL) is bundled with Confluence, so there's no need to install it.

Step 5. Install AppLinks in FishEye and Crucible

Follow these steps if you want to install AppLinks into FishEye and/or Crucible:

1. Copy the following JAR into FishEye's installation directory at `FISHEYE_INST/var/plugins/user`:
    - `applinks-fisheye-plugin-x.x.x.jar`
2. In the FishEye **Admin** screens, click '**Plugins**' then '**Check for new plugins in FISHEYE_INST/var/plugins/user**'. The AppLinks plugin should appear in the list of installed plugins. If not, restart FishEye.

The Shared Access Layer (SAL) is bundled with FishEye/Crucible, so there's no need to install it.

Next Step. Configure AppLinks

Now you will need to configure the linked applications using the administration screens of each application. Please refer to the administration guide.

RELATED TOPICS

Application Links Administration Guide
Application Links Documentation Home
Atlassian Product Integration

Application Links Administration Guide

Once you have installed Application Links, you will need to configure the linked applications using the administration screens of each relevant application (JIRA, Confluence, etc).

> **Please install Application Links first**
> Before following the instructions below, please make sure that you have installed the Application Links plugin as described in the Installation Guide.

On this page:

- Link to Subversion Not Required
- Configuring your Applications for Application Links
    - Step 1: Set the Base URL in Each Application
    - Step 2. Enable the Wiki Renderer in JIRA
    - Step 3. Add an Application to your Application Links Suite
    - Subversion Links Not Currently Used outside JIRA Studio
    - Step 4. Add more Applications or Application Instances
    - Step 5. Synchronise your Applications
    - Step 6. Add your Project Links
    - Step 7. Synchronise your Project Links

Link to Subversion Not Required

There is no need to link AppLinks to a Subversion repository unless you have a specific requirement to do so.

The integration with Subversion provides a way for plugins to know what SVN repository a project is associated with. For example, Atlassian uses AppLinks primarily in JIRA Studio, where this feature allows JIRA Studio to create, update and delete repositories. However, there are currently no publicly-available plugins that make use of this functionality.

This means that, unless you are writing a new plugin to use the Subversion linking, you will not find it useful to add Subversion to your AppLinks suite. It will not provide any extra rendering of links in JIRA or Confluence. To render links of the form `source:<Filename>`, you will need FishEye.

Configuring your Applications for Application Links

Below is a summary of the steps you need to take, to configure Application Links across your applications. These steps will get your Application Links up and running. For more detail and more complex setups, you will find links to further guides at the bottom of the page.

Step 1: Set the Base URL in Each Application

Make sure that the base URL is set correctly in each application which you intend to link. This is required for synchronisation to work correctly.

1. Set the base URL in Confluence:
    a. In Confluence, open the '**Browse**' menu and select '**Confluence Admin**'. The 'Administration Console' will open.
    b. Click '**General Configuration**' in the left-hand panel.
    c. Click the '**Edit**' button next to '**Site Configuration**'.
    d. Enter the new URL in the '**Server Base URL**' text box.
    e. '**Save**' your changes.

    If you run into problems, please refer to the Confluence Administration Guide.

2. Set the base URL in FishEye and Crucible:
    a. In FishEye, click '**Server Settings**' on the '**Admin**' menu.
    b. Set the '**Site URL**' to the base URL for your FishEye and Crucible instance.
    If you run into problems, please refer to the FishEye Administration Guide.

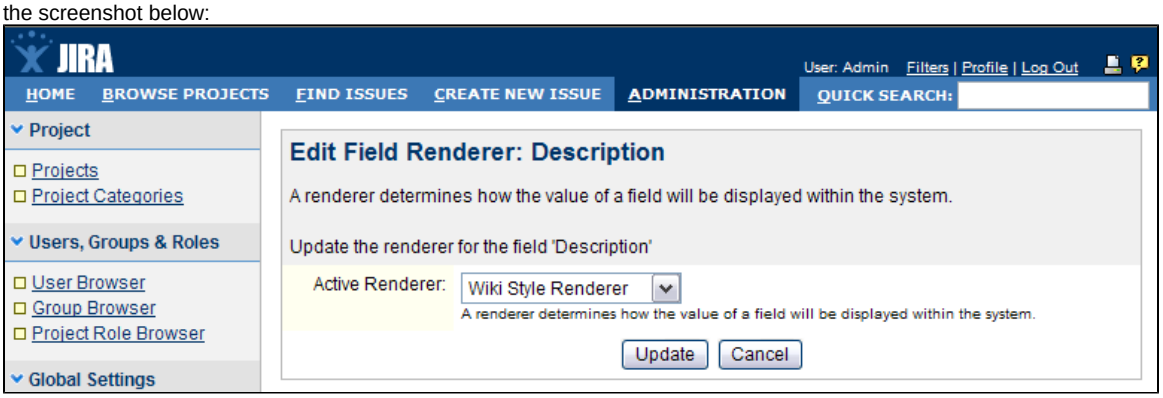
3. Set the base URL in JIRA:
    a. In JIRA, go to the '**Administration**' menu.
    b. Select '**General Configuration**' under 'Global Settings'.
    c. Click '**Edit Configuration**'.
    d. Set the '**Base URL**' to the base URL for your JIRA instance.
    e. Click '**Update**' to save your changes.
    If you run into problems, please refer to the JIRA Administration Guide.

Step 2. Enable the Wiki Renderer in JIRA

You will need to do this if you are intending to use Application Links with JIRA. If JIRA's Wiki Renderer is not enabled, JIRA link rendering will not work.

In JIRA, go to JIRA field configuration and enable the Wiki Renderer for the 'Description' field and other relevant fields, as described below.

1. In JIRA, go to the '**Administration**' menu.
2. Select '**Field Configurations**' under 'Issue Fields'.
3. Select '**Configure**' next to 'Default Field Configuration'.
(If you have added your own field configuration schemes, you should enable Wiki Renderer for those too, where relevant.)
4. Find the '**Description**' field in the list of fields, and click '**Renderers**' next to it. The 'Edit Field Renderer' screen will appear, as shown in the screenshot below:



5. Select '**Wiki Style Renderer**' and click '**Update**'.
6. Confirm your selection as prompted.
7. Now perform the same steps to enable the Wiki Renderer for the '**Comment**' and '**Environment**' fields, and any custom fields as required.

If you run into problems, refer to the JIRA documentation for detailed instructions.

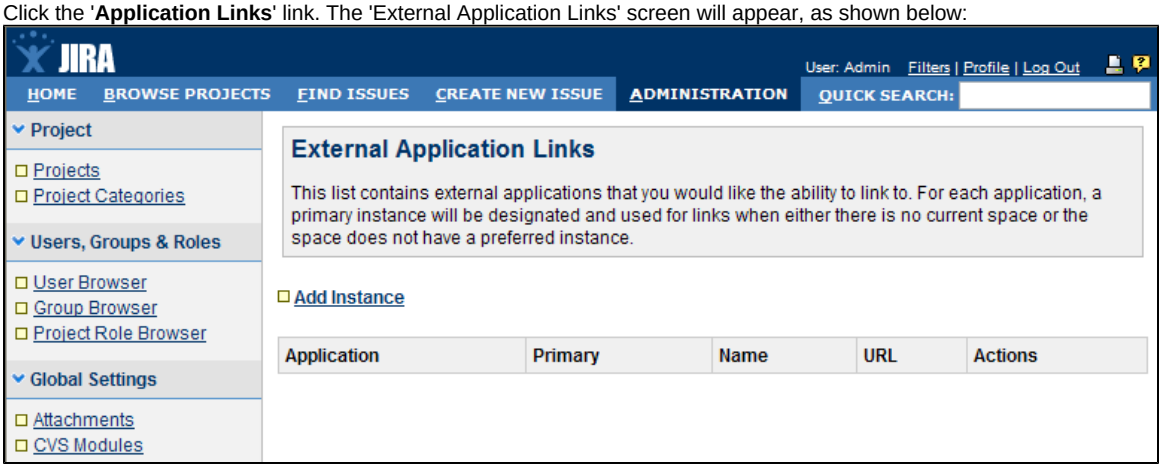
Step 3. Add an Application to your Application Links Suite

Now you will add each of your applications into the Application Links suite. The suite is the set of applications that you want to take part in the cross-application linking.

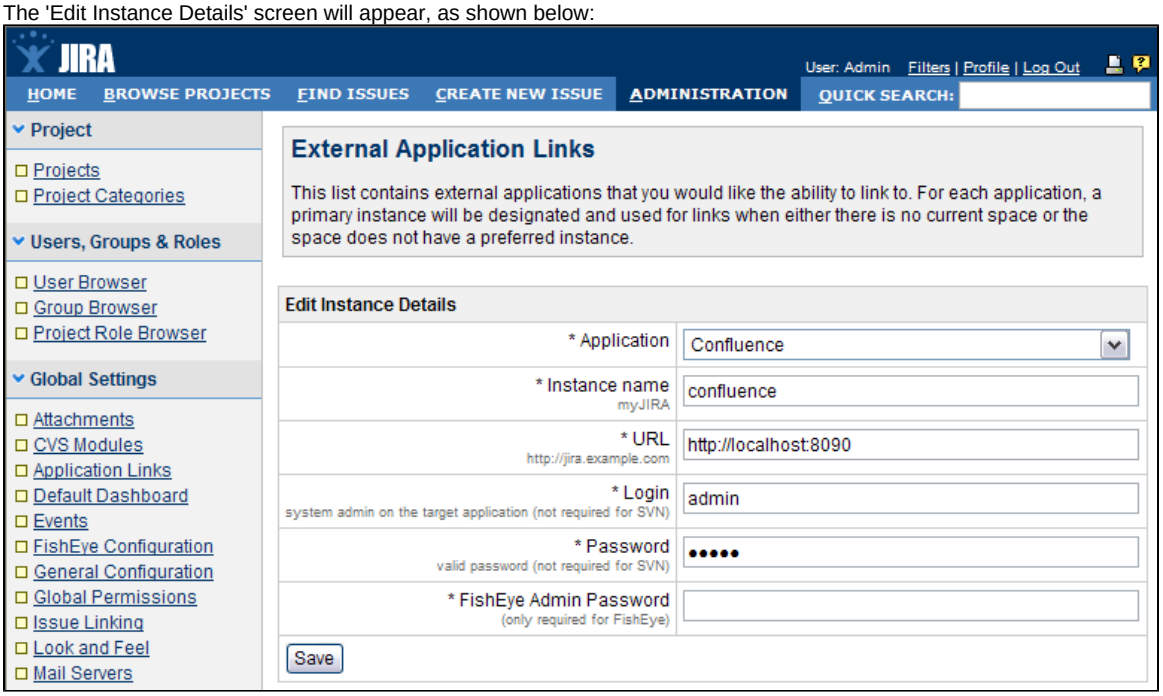
You can add applications via either Confluence or JIRA.

- In our example below, we have used the JIRA Administration screens to add Confluence to the Application Links suite.
- If you are using Confluence but not JIRA, you can perform similar steps using the Confluence Administration console. See Adding your Applications via Confluence Administration.

1. Make sure that the application you want to add is running. For example, if you want to add Application Links between Confluence and JIRA, then both Confluence and JIRA must be up.
2. Log in to JIRA as a system administrator.
3. Go to the '**Administration**' screen.
4. Click the '**Application Links**' link. The 'External Application Links' screen will appear, as shown below:



5. Click '**Add Instance**'.
6. The 'Edit Instance Details' screen will appear, as shown below:



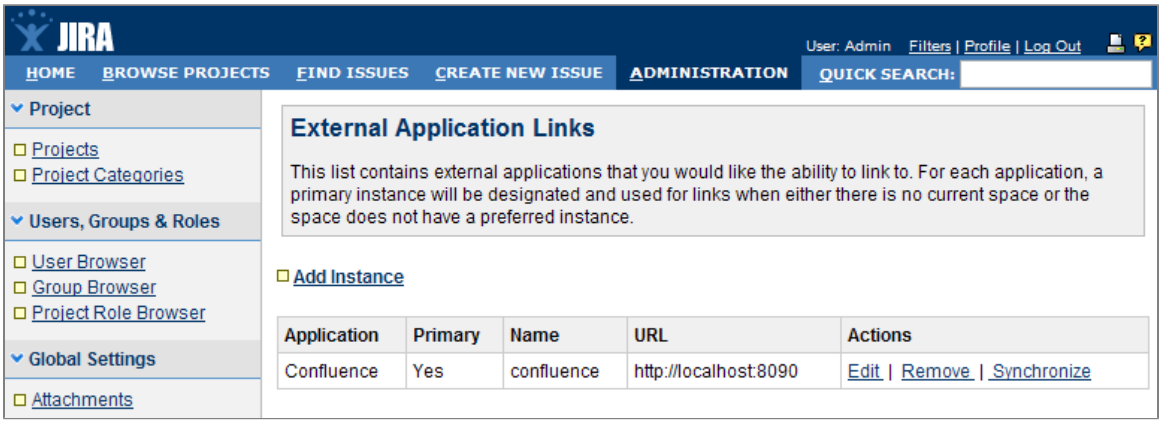
7. Enter the following information:

Field	Description	Examples
Application	Select the application you are adding.	

Instance name	Enter the name of the application instance. We recommend that you use a unique instance name, to ensure that synchronisation will work.
	When using the JIRA screens to synchronise, there is currently a limitation that the instance you are synchronising from be called `jira`. See APL-2.
		`confluence`
		`confluence extranet`
		`fisheye`
		`my-svn`

URL	Enter the address of the application instance. Please make sure that the URL agrees with the base URL configured in your application. For Subversion, the URL is `file:///` plus the path to the SVN repository. (See the note about Subversion below.)	For Confluence --- http://localhost:8080 Or --- http://myHost.com/confluence For FishEye --- http://localhost:8060 For Subversion --- file:///svn_repository Or --- file:///data/svnroot
Login, Password	Enter the username and password of a user with system administration rights on the application instance. They are not required for Subversion.	
FishEye Admin Password	Enter the password of the FishEye administrator. This field is only required when you are adding the FishEye application.	

Click the '**Save**' button.
The application instance has now been added into Application Links. The new application instance will now show on the 'External Application Links' screen:



Subversion Links Not Currently Used outside JIRA Studio

Application Links was originally developed for JIRA Studio, which uses the Subversion linking to associate the repository with the Atlassian applications. Outside JIRA Studio, there are currently no plugins that use SVN application links.

This means that, unless you are writing a new plugin to use the Subversion linking, you will not find it useful to add Subversion to your Application Links suite. It will not provide any extra rendering of links in JIRA or Confluence. To render links of the form `source:<Filename>`, you will need FishEye.

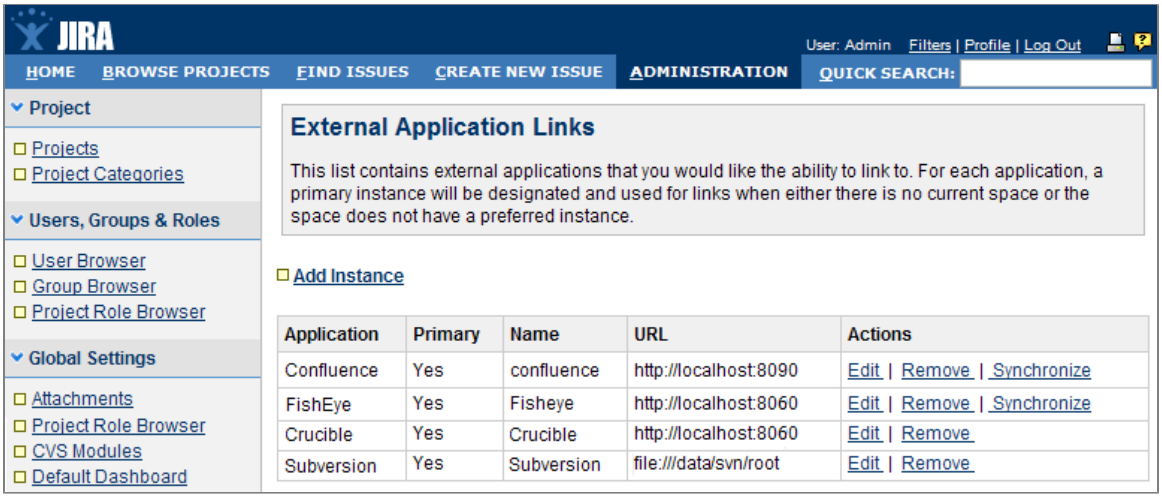
Step 4. Add more Applications or Application Instances

Follow the steps above, to add any of the other supported applications into your Application Links suite.

If you have two or more instances of a particular application, you can add them individually. For example, if you have two Confluence sites, you can add them both.

- Add each application instance, following the steps described above.
- If you wish to change the primary instance, select the primary instance as described in Specifying a Primary Application Instance.

If you need more information about adding multiple applications, refer to More about Adding Applications.

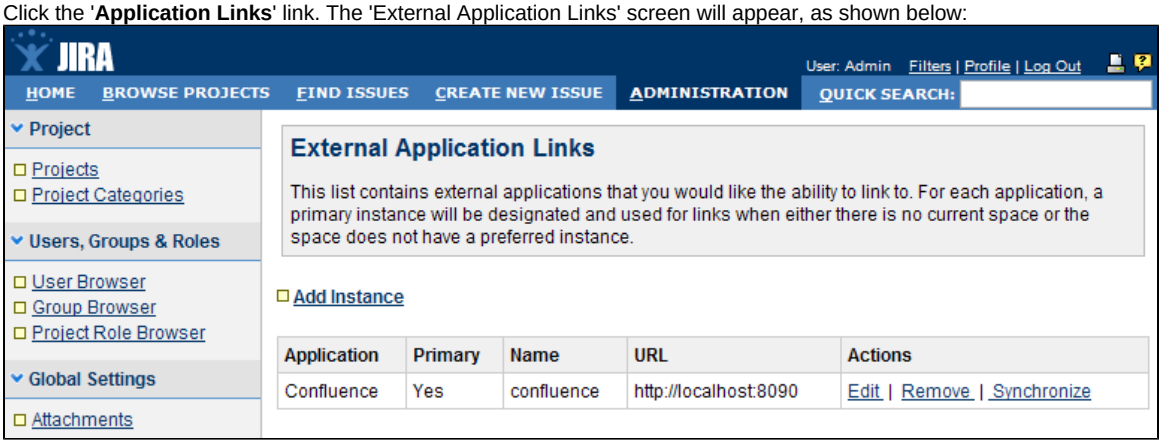


Step 5. Synchronise your Applications

You can add an application to your Application Links suite via the JIRA or the Confluence administration screens. The added application will then appear in the list on the administration screen where you added it.

Now you need to synchronise with the other applications in the Application Links suite. This will let the other applications know that a new application has been added to the suite. For example, if you added a Confluence application via the JIRA administration screens, you should synchronise so that the Confluence application knows it is linked to JIRA.

1. Log in to JIRA as a system administrator.
2. Go to the '**Administration**' screen.
3. Click the '**Application Links**' link. The 'External Application Links' screen will appear, as shown below:



4. Click '**Synchronize**' next to the relevant application instance.

If you need more information about synchronisation, refer to Synchronising Application Instances.

Step 6. Add your Project Links

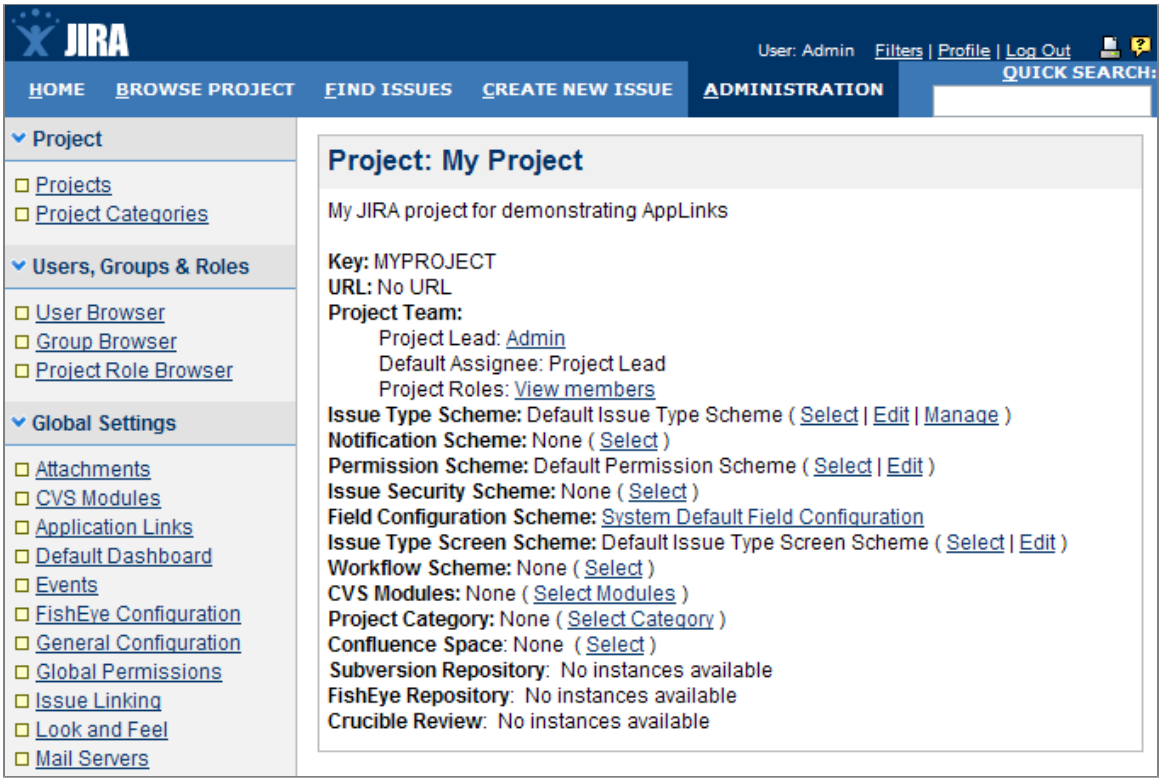
You can add your project links via either Confluence or JIRA.

- In our example below, we have used the JIRA project administration screens to add project links to a Confluence space.
- If you are using Confluence but not JIRA, you can perform similar steps using the Confluence space administration screens. See Adding and Synchronising Project Links via Confluence.

Project links allow you to associate a particular Confluence space with a particular JIRA project, or a particular Crucible project with a JIRA project, etc.

If you have more than one instance of the same application (for example, you may have two Confluence sites), you can link a project to the primary application instance or any other instance. (If you are not sure what a primary instance is, please refer to Specifying a Primary Application Instance.)

1. In JIRA, log in as a project administrator.
2. Go to the '**Administer Project**' page for the relevant project. See the example in the screenshot below:



3. Click the '**Select**' link next to the 'Confluence Space', 'Subversion Repository', 'FishEye Repository' or 'Crucible Review' item. The 'Associate' screen appears. Below we show two examples of this screen, one for Confluence and one for FishEye:
    - The 'Associate' screen for Confluence:

        a. Select an application instance from the '**Instance**' dropdown menu, or select '`-- Default Instance --`'.
        b. In the next field you will enter a space or project key as prompted, depending upon the type of application selected above. This will associate the current JIRA project with a particular space or project in the other application. For example, in the screenshot above we are linking the Confluence 'DOCS' space to our JIRA project.
        c. Click '**Associate**'.
    - The 'Associate' screen for FishEye:

a. Select a FishEye instance from the '**Instance**' dropdown menu, or select '`-- Default Instance --`'.
b. In the next field you will enter a '**FishEye repository key**'. This value must match the '**Name**' as defined in your '**Repository List**' in FishEye. For example, in the screenshot above we have linked the FishEye 'ProductRepository' and 'LibrariesRepository' to our JIRA project.

   You can link more than one repository from the same FishEye instance, as shown on the screenshot above.

   AppLinks does not validate the repository name entered here. It is up to you to ensure that the repository key entered in AppLinks is the same as the repository name entered in FishEye.
c. Click '**Associate**'.

4. The new project link appears on the 'Administer Project' page, as shown in the screenshot below:

Step 7. Synchronise your Project Links

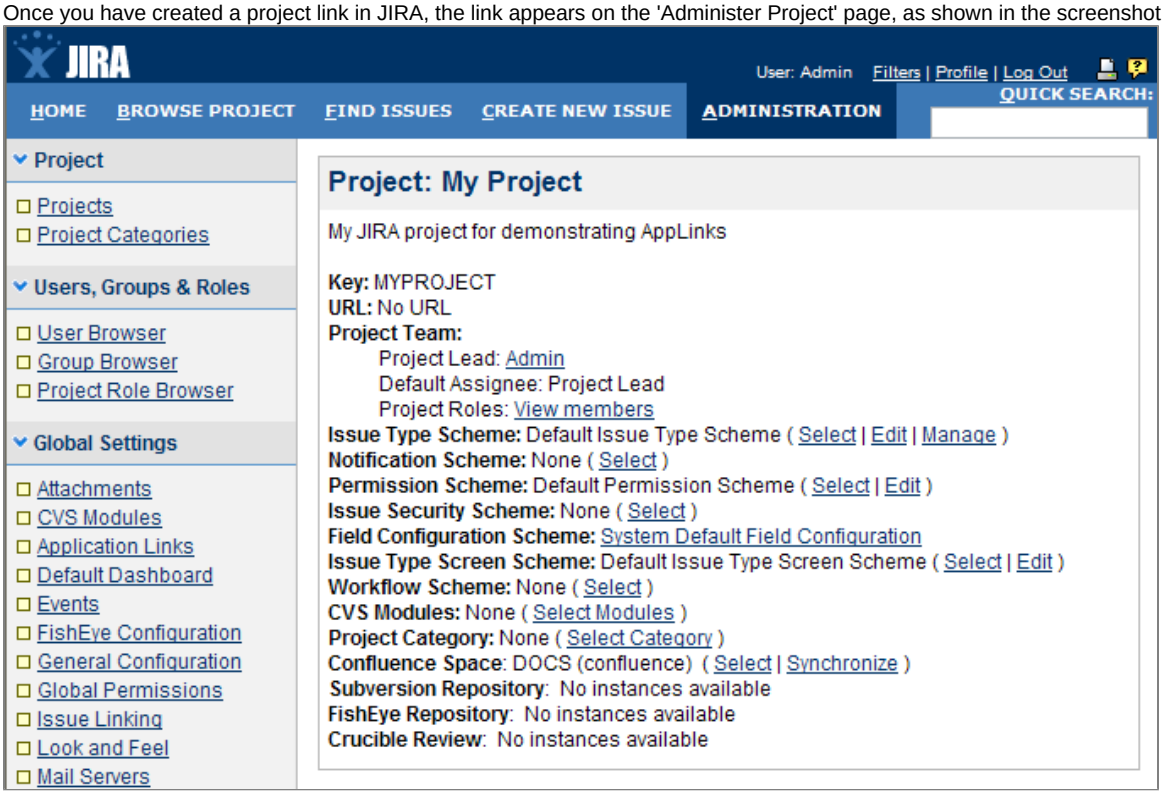
You can synchronise your project links via either Confluence or JIRA. We have used JIRA in our example below. You can perform similar steps using the Confluence space administration screens. See Adding and Synchronising Project Links via Confluence.

You can add a project link to your Application Links suite via the JIRA or the Confluence administration screens. The project link will then appear in the list on the administration screen where you added it.

Now you need to synchronise with the other applications in the Application Links suite. This will let the other applications know that the project link has been added. For example, if you added a project link from a JIRA project to a Confluence space via the JIRA administration screens, you

should synchronise so that the Confluence space knows it is linked to the JIRA project.

1. Once you have created a project link in JIRA, the link appears on the 'Administer Project' page, as shown in the screenshot below:



2. Click the '**Synchronize**' link to create a matching link on the remote instance.

Due to a current limitation, the instance that you are synchronising from must be called 'jira' if you are synchronising from JIRA, or 'confluence' if you are synchronising from confluence. See APL-2.

RELATED TOPICS

- Adding your Applications via JIRA Administration
- Adding your Applications via Confluence Administration
- Synchronising Application Instances
- More about Adding Applications
- Specifying a Primary Application Instance
- Removing Application Instances
- Adding and Synchronising Project Links via JIRA
- Adding and Synchronising Project Links via Confluence

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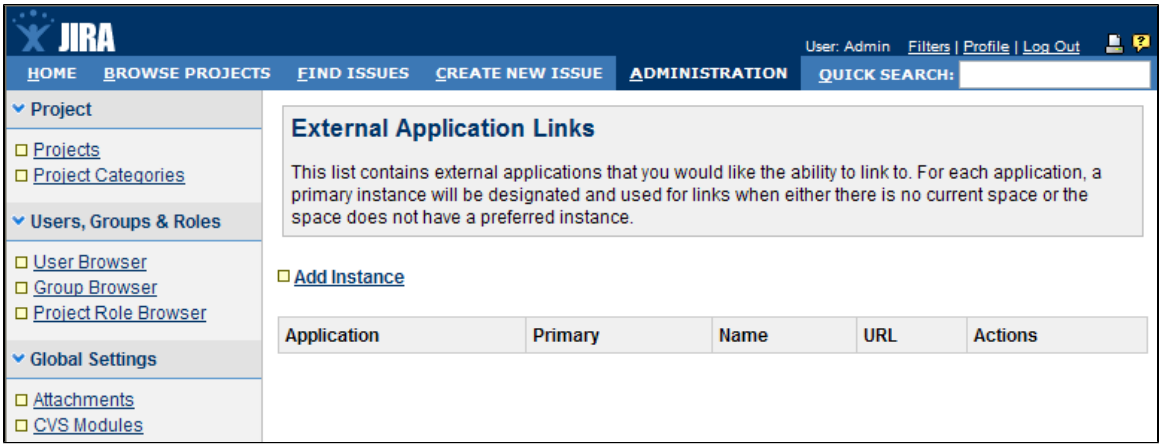
Adding your Applications via JIRA Administration

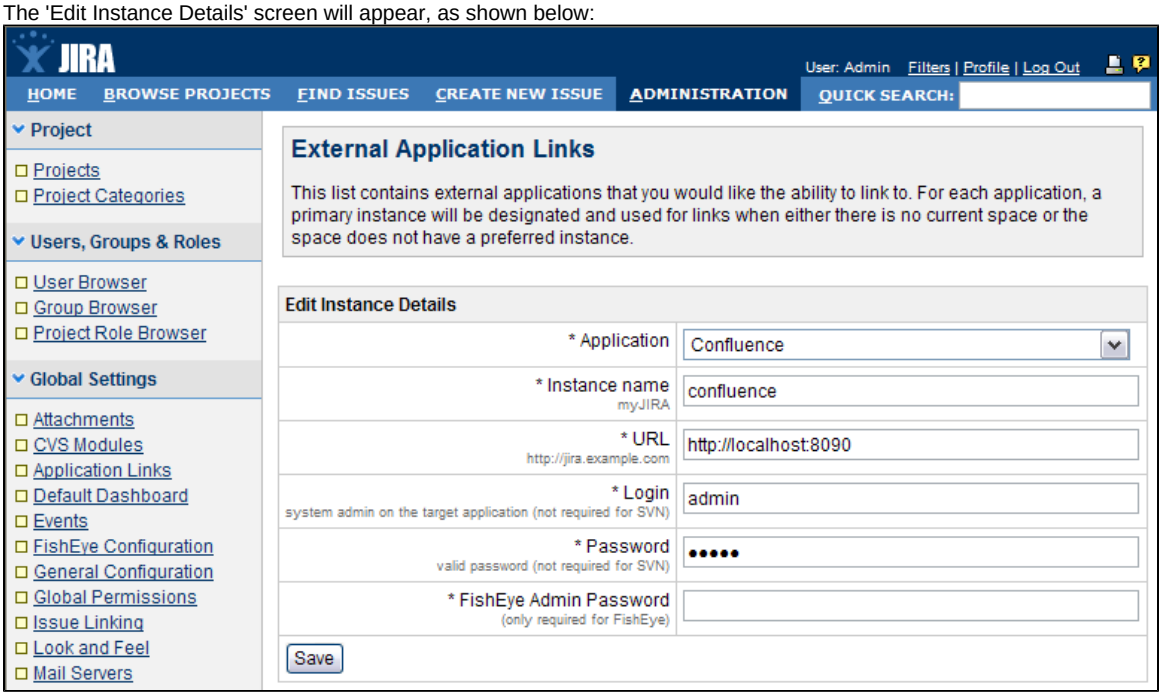
This page tells you how to add applications to your JIRA site, so that Application Links will work between JIRA and the added applications.

Before following the instructions below, please make sure that you have installed the Application Links plugin as described in the Installation Guide.

1. Make sure that the application you want to add is running. For example, if you want to add Application Links between Confluence and JIRA, then both Confluence and JIRA must be up.
2. Log in to JIRA as a system administrator.
3. Go to the '**Administration**' screen.
4. Click the '**Application Links**' link. The 'External Application Links' screen will appear, as shown below:



5. Click '**Add Instance**'.
6. The 'Edit Instance Details' screen will appear, as shown below:



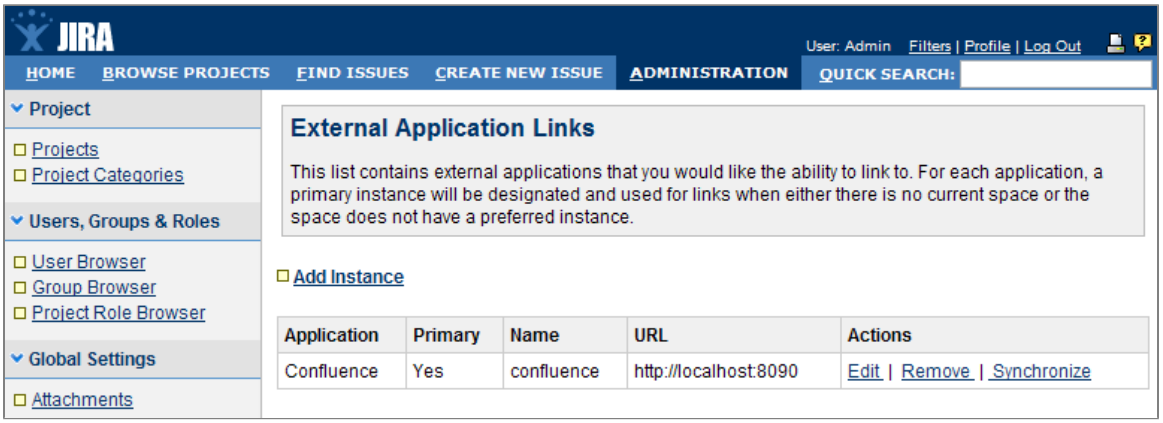
7. Enter the following information:

Field	Description	Examples
Application	Select the application you are adding.	

Instance name	Enter the name of the application instance. We recommend that you use a unique instance name, to ensure that synchronisation will work.
	When using the JIRA screens to synchronise, there is currently a limitation that the instance you are synchronising from be called `jira`. See APL-2.
		`confluence`
		`confluence extranet`
		`fisheye`
		`my-svn`

URL	Enter the address of the application instance. Please make sure that the URL agrees with the base URL configured in your application. For Subversion, the URL is `file:///` plus the path to the SVN repository. (See the note about Subversion below.)	For Confluence --- http://localhost:8080 Or --- http://myHost.com/confluence For FishEye --- http://localhost:8060 For Subversion --- file:///svn_repository Or --- file:///data/svnroot
Login, Password	Enter the username and password of a user with system administration rights on the application instance. They are not required for Subversion.	
FishEye Admin Password	Enter the password of the FishEye administrator. This field is only required when you are adding the FishEye application.	

Click the '**Save**' button.
The application instance has now been added into Application Links. The new application instance will now show on the 'External Application Links' screen:



Subversion Links Not Currently Used outside JIRA Studio

Application Links was originally developed for JIRA Studio, which uses the Subversion linking to associate the repository with the Atlassian applications. Outside JIRA Studio, there are currently no plugins that use SVN application links.

This means that, unless you are writing a new plugin to use the Subversion linking, you will not find it useful to add Subversion to your Application Links suite. It will not provide any extra rendering of links in JIRA or Confluence. To render links of the form `source:<Filename>`, you will need FishEye.

RELATED TOPICS

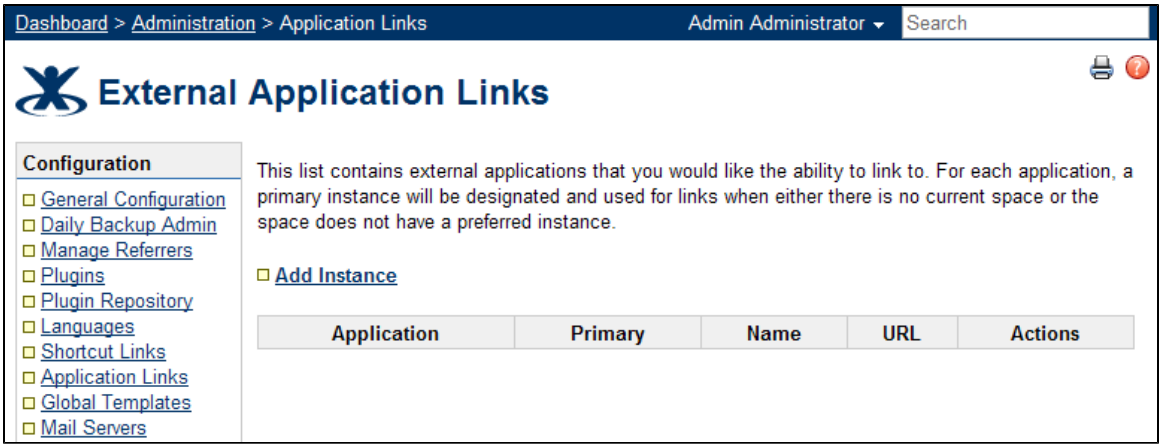
Application Links Administration Guide
Application Links Installation Guide

Adding your Applications via Confluence Administration

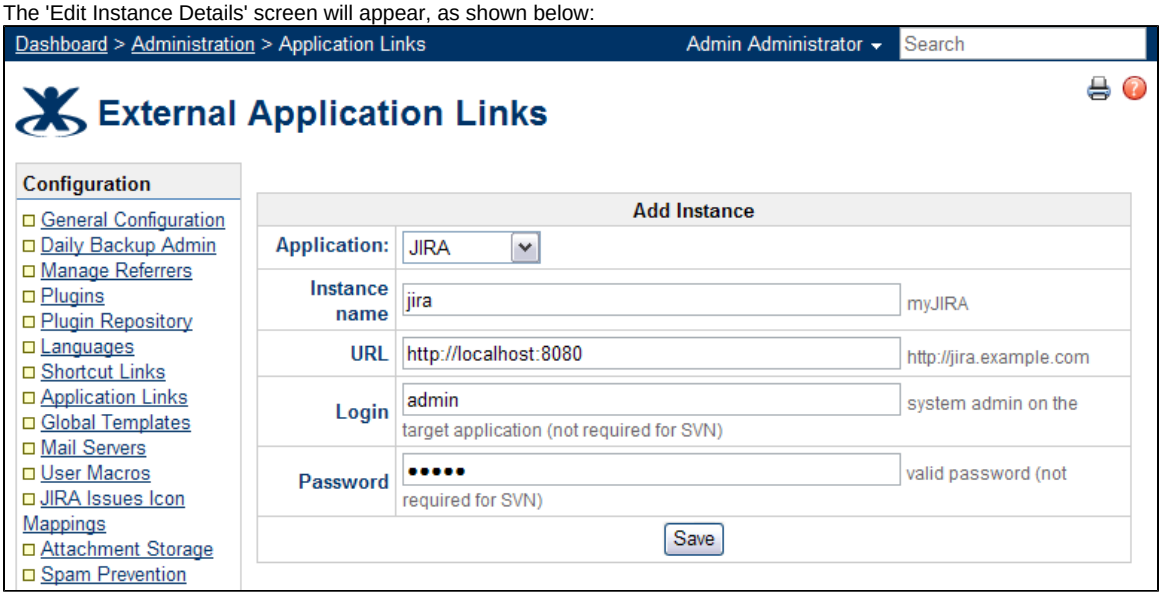
This page tells you how to add applications to your Confluence site, so that Application Links will work between Confluence and the added applications.

Before following the instructions below, please make sure that you have installed the Application Links plugin as described in the Installation Guide.

1. Make sure that the application you want to add is running. For example, if you want to add Application Links between Confluence and JIRA, then both Confluence and JIRA must be up.
2. Log in to Confluence as a system administrator.
3. Go to the **Administration Console**.
4. Click the '**Application Links**' link. The 'External Application Links' screen will appear, as shown below:



5. Click '**Add Instance**'.
6. The 'Edit Instance Details' screen will appear, as shown below:



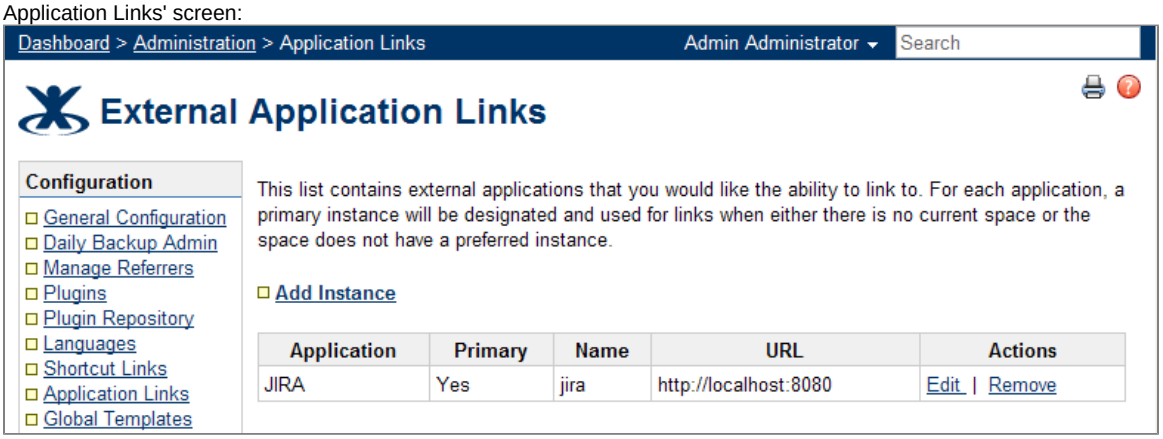
7. Enter the following information:

Field	Description	Examples
Application	Select the application you are adding.	

Instance name	This is the name of the application instance. We recommend that the instance name is kept unique across all instances to ensure that synchronisation will work. There is a current limitation for synchronisation that the instance be called 'confluence'. See APL-2.	`jira`
		`jira hr`
		`fisheye`
		`my-svn`

URL	Enter the address of the application instance. Please make sure that the URL agrees with the base URL configured in your application. For Subversion, the URL is `file:///` plus the path to the SVN repository. (See the note about Subversion below.)	For JI htt :80 Or --- htt For Fi htt :80 For Su fil Or --- fil
Login, Password	These are the login details for the application instance. They are not required for Subversion.	

8. Click the '**Save**' button.
9. The application instance has now been added into Application Links. The new application instance will now show on the 'External Application Links' screen:



Subversion Links Not Currently Used outside JIRA Studio

Application Links was originally developed for JIRA Studio, which uses the Subversion linking to associate the repository with the Atlassian applications. Outside JIRA Studio, there are currently no plugins that use SVN application links.

This means that, unless you are writing a new plugin to use the Subversion linking, you will not find it useful to add Subversion to your Application Links suite. It will not provide any extra rendering of links in JIRA or Confluence. To render links of the form `source:<Filename>`, you will need FishEye.

RELATED TOPICS

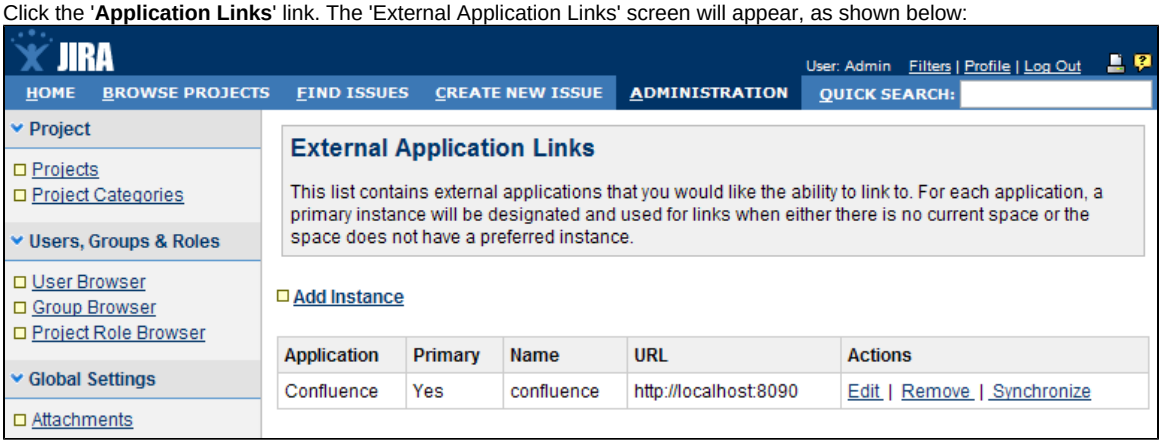
Application Links Administration Guide
Application Links Installation Guide

Synchronising Application Instances

You can add an application to your Application Links suite via the JIRA or the Confluence administration screens. The added application will then appear in the list on the administration screen where you added it.

Now you need to synchronise with the other applications in the Application Links suite. This will let the other applications know that a new application has been added to the suite. For example, if you added a Confluence application via the JIRA administration screens, you should synchronise so that the Confluence application knows it is linked to JIRA.

1. Log in to JIRA as a system administrator.
2. Go to the '**Administration**' screen.
3. Click the '**Application Links**' link. The 'External Application Links' screen will appear, as shown below:



4. Click '**Synchronize**' next to the relevant application instance.

Synchronising the applications will:

- Create an application instance on the remote instance, pointing back to this instance.
- Copy all the other instances configured on this instance to the remote instance.

For example, let's say you have the following application instances configured on JIRA:

- A Confluence instance
- A FishEye instance
- A Crucible instance

When you click the 'Synchronize' link next to the Confluence instance in JIRA, that Confluence instance will now have:

- Your JIRA instance
- The FishEye instance as configured on JIRA
- The Crucible instance as configured on JIRA

RELATED TOPICS

Application Links Administration Guide

More about Adding Applications

You can add one or more application instances for inclusion in the Application Links functionality. For example, you can include two Confluence sites into your suite of Application Links applications.

Application Links supports the following applications:

- JIRA
- Confluence
- FishEye
- Crucible
- Subversion

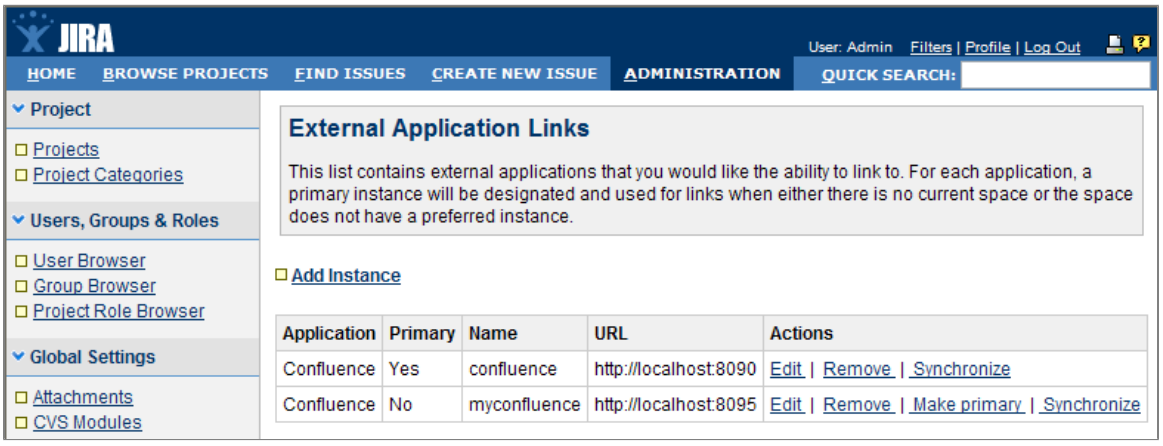
For each of the above applications, you can add zero, one or more instances to the Application Links suite.

If you add two or more instances of the same application (such as two Confluence sites), then you will need to choose the primary instance. See Specifying a Primary Application Instance.

Linking two instances of the same application

You can add multiple instances of the same application (see More about Adding Applications) but you cannot use Application Links to connect two instances of the same application. For example, you cannot link one JIRA site to another JIRA site. You can link a JIRA site to a Confluence site, or a JIRA site to a FishEye/Crucible site, etc.

Screenshot: More than one Confluence instance in the Application Links suite



RELATED TOPICS

Application Links Administration Guide

Specifying a Primary Application Instance

You can add more than one instance of the same application to your Application Links suite. For example, you can include two Confluence sites into your suite of Application Links applications. This is described in More about Adding Applications.

There must be one **primary instance** of each application.

If there is only one instance of a particular application, the primary instance will by default be that single instance. If there are multiple instances of a particular application, the primary instance will by default be the one added first.

What is the Significance of the Primary Instance?

The primary instance is the default instance that is used if no project links are configured for a project.

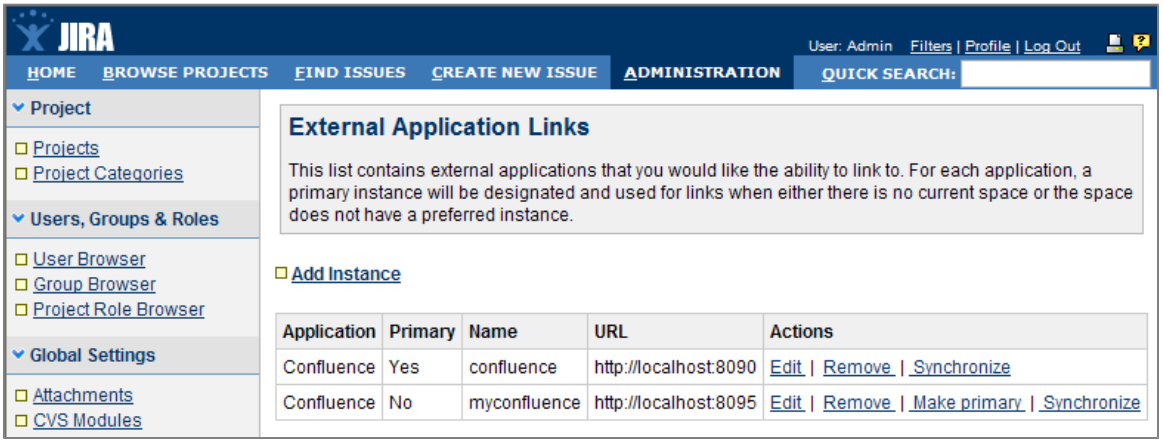
Selecting a Primary Instance

You can manage your applications via either Confluence or JIRA.

- In our example below, we have used the JIRA Administration screens to select the primary Confluence instance.
- If you are using Confluence but not JIRA, you can perform similar steps using the Confluence Administration console.

1. Log in to JIRA as a system administrator.
2. Click the '**Application Links**' link. The 'External Application Links' screen will appear, as shown below.
3. Click '**Make primary**' next to the relevant application instance.

Screenshot: Specifying a primary application instance

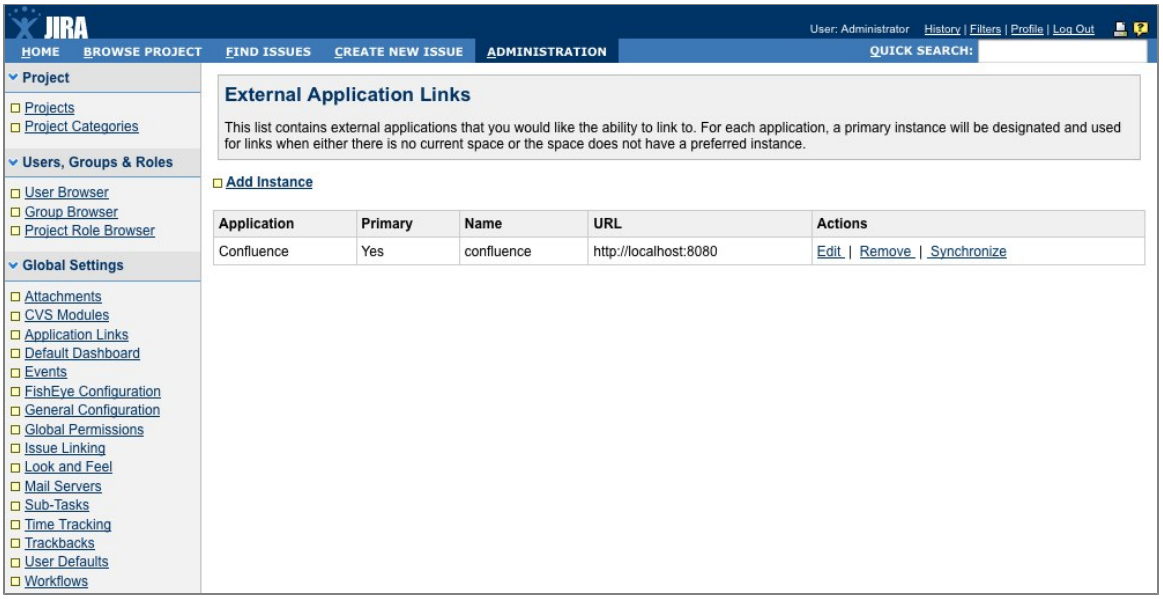


RELATED TOPICS

Adding and Synchronising Project Links via JIRA
Application Links Administration Guide
Application Links User Guide

Removing Application Instances

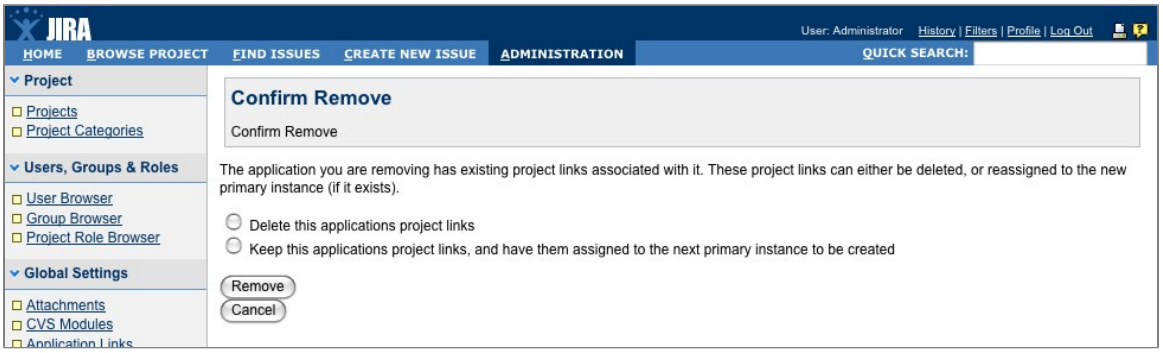
You can remove an application instance, so that it no longer takes part in your Applications Links suite.



Click '**Remove**' next to the relevant application instance.

If there are no existing project links associated with the application instance, it will be removed from the Application Links suite immediately. For more information about project links, refer to Adding and Synchronising Project Links via JIRA.

However, if there are existing project links associated with the application instance, then you will be asked whether you want those links deleted or reassigned to the default instance. If there is no default instance, and you choose to reassign the links, they will automatically be assigned to the new default instance when one is created.



RELATED TOPICS

Application Links Administration Guide

Adding and Synchronising Project Links via JIRA

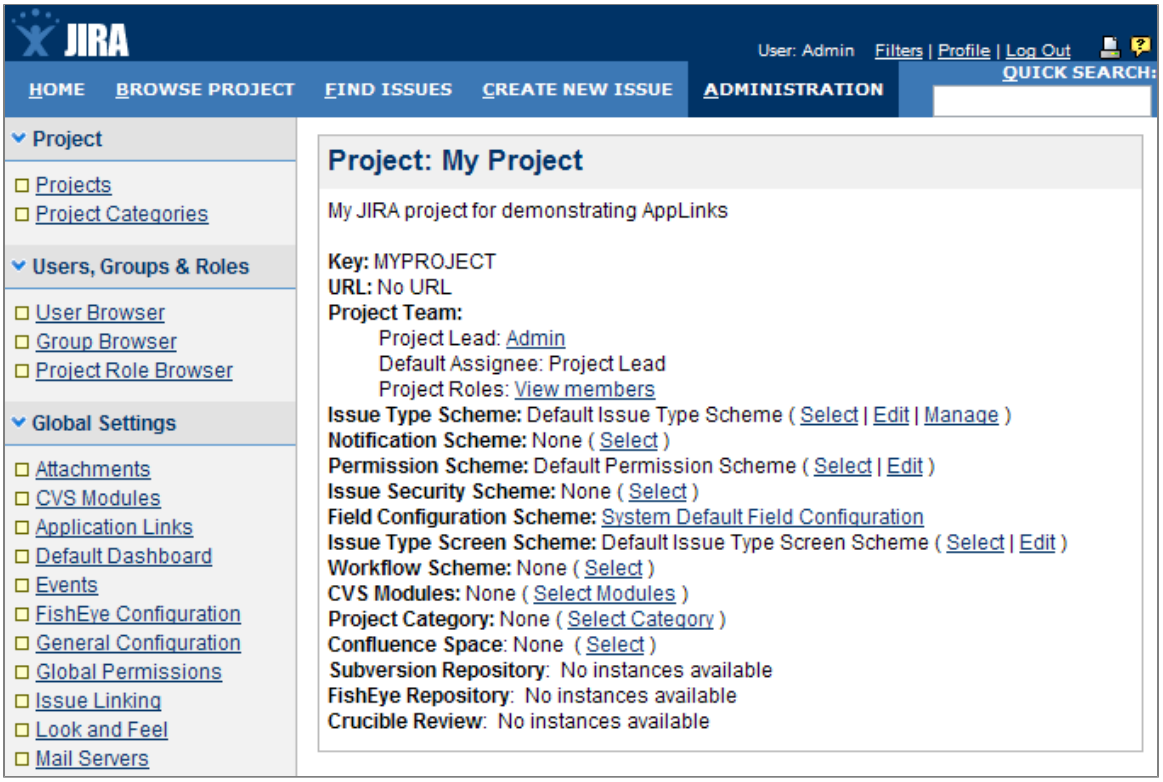
Refer to the Application Links Administration Guide for instructions on configuring your application link, before you attempt to create a project link.

Adding Project Links

Project links allow you to associate a particular Confluence space with a particular JIRA project, or a particular Crucible project with a JIRA project, etc.

If you have more than one instance of the same application (for example, you may have two Confluence sites), you can link a project to the primary application instance or any other instance. (If you are not sure what a primary instance is, please refer to Specifying a Primary Application Instance.)

1. In JIRA, log in as a project administrator.
2. Go to the '**Administer Project**' page for the relevant project. See the example in the screenshot below:



3. Click the '**Select**' link next to the 'Confluence Space', 'Subversion Repository', 'FishEye Repository' or 'Crucible Review' item. The 'Associate' screen appears. Below we show two examples of this screen, one for Confluence and one for FishEye:
    - The 'Associate' screen for Confluence:

        a. Select an application instance from the '**Instance**' dropdown menu, or select '`-- Default Instance --`'.
        b. In the next field you will enter a space or project key as prompted, depending upon the type of application selected above. This will associate the current JIRA project with a particular space or project in the other application. For example, in the screenshot above we are linking the Confluence 'DOCS' space to our JIRA project.
        c. Click '**Associate**'.
    - The 'Associate' screen for FishEye:

a. Select a FishEye instance from the '**Instance**' dropdown menu, or select '`-- Default Instance --`'.
b. In the next field you will enter a '**FishEye repository key**'. This value must match the '**Name**' as defined in your '**Repository List**' in FishEye. For example, in the screenshot above we have linked the FishEye 'ProductRepository' and 'LibrariesRepository' to our JIRA project.

   You can link more than one repository from the same FishEye instance, as shown on the screenshot above.

   AppLinks does not validate the repository name entered here. It is up to you to ensure that the repository key entered in AppLinks is the same as the repository name entered in FishEye.
c. Click '**Associate**'.

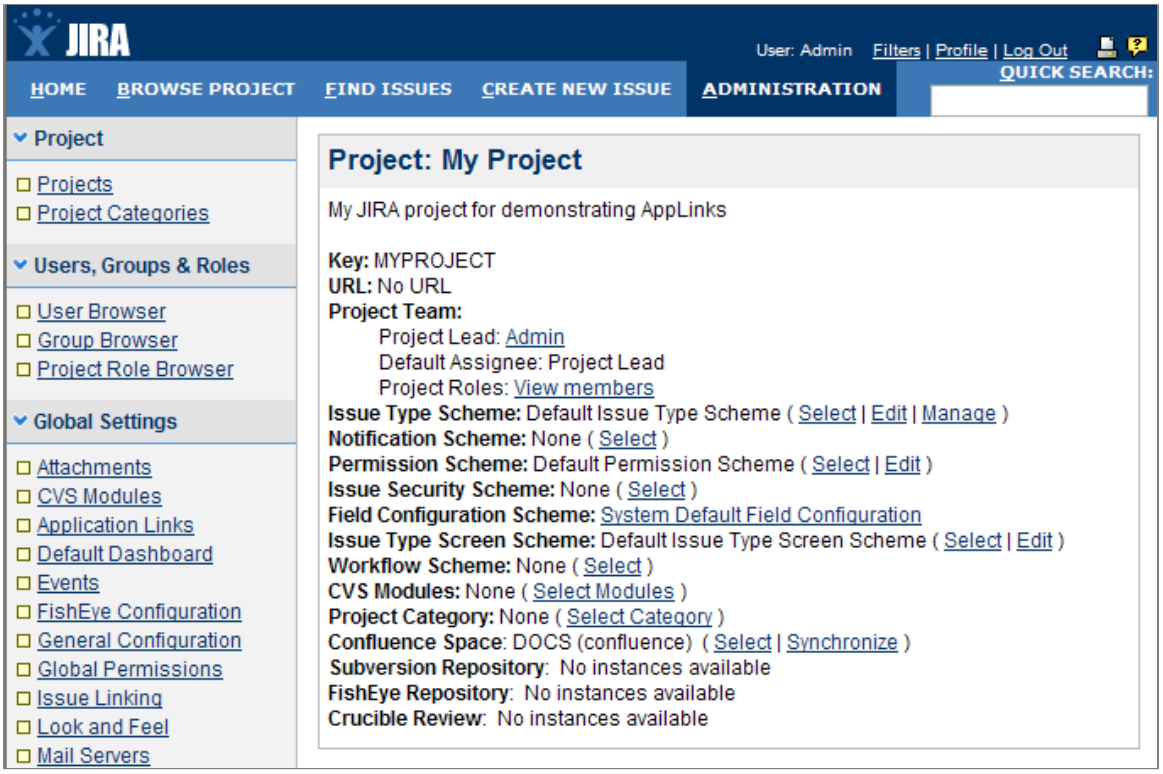
4. The new project link appears on the 'Administer Project' page, as shown in the screenshot below:

Synchronising Project Links

You can add a project link to your Application Links suite via the JIRA or the Confluence administration screens. The project link will then appear in the list on the administration screen where you added it.

Now you need to synchronise with the other applications in the Application Links suite. This will let the other applications know that the project link has been added. For example, if you added a project link from a JIRA project to a Confluence space via the JIRA administration screens, you should synchronise so that the Confluence space knows it is linked to the JIRA project.

1. Once you have created a project link in JIRA, the link appears on the 'Administer Project' page, as shown in the screenshot below:



2. Click the '**Synchronize**' link to create a matching link on the remote instance.

Due to a current limitation, the instance that you are synchronising from must be called 'jira' if you are synchronising from JIRA, or 'confluence' if you are synchronising from confluence. See APL-2.

RELATED TOPICS

Application Links Administration Guide

Adding and Synchronising Project Links via Confluence

Project links allow you to associate a particular Confluence space with a particular JIRA project, or a particular Crucible project with a JIRA project, etc.

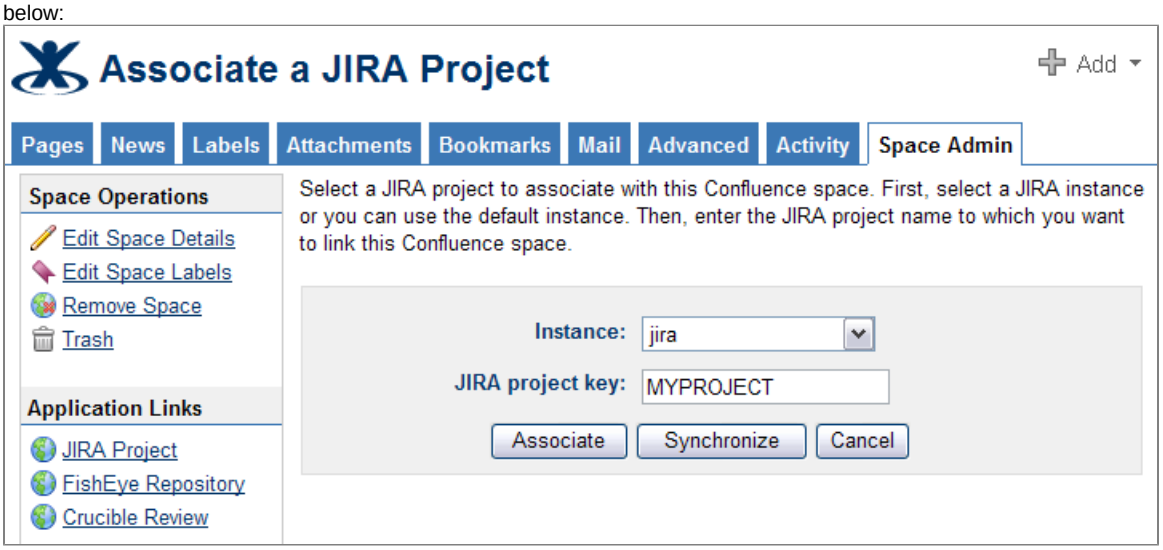
If you have more than one instance of the same application (for example, you may have two Confluence sites), you can link a project to the primary application instance or any other instance. (If you are not sure what a primary instance is, please refer to Specifying a Primary Application Instance.)

Refer to the Application Links Administration Guide for instructions on configuring your application link, before you attempt to create a project link.

Adding Project Links

1. In Confluence, log in as a space administrator.
2. Go to the '**Space Admin**' page for the relevant space.
3. Click one of the applications in the '**Application Links**' section of the left-hand panel. In our example, we will link a JIRA project to a Confluence space, so we will select '**JIRA Project**'.
4. The 'Associate' screen appears, as shown below:

5. Select an application instance from the '**Instance**' dropdown menu, or select '`-- Default Instance --`'.
6. In the next field you will enter a repository or project key as prompted, depending upon the type of application selected above. This will associate the current Confluence space with a particular repository or project in the other application. For example, in the screenshot above we are linking our Confluence space to 'MYPROJECT' in JIRA.
7. Click 'Associate'.
8. The new project link has been created, and the '**Synchronize**' button appears on the 'Associate' screen, as shown in the screenshot below:

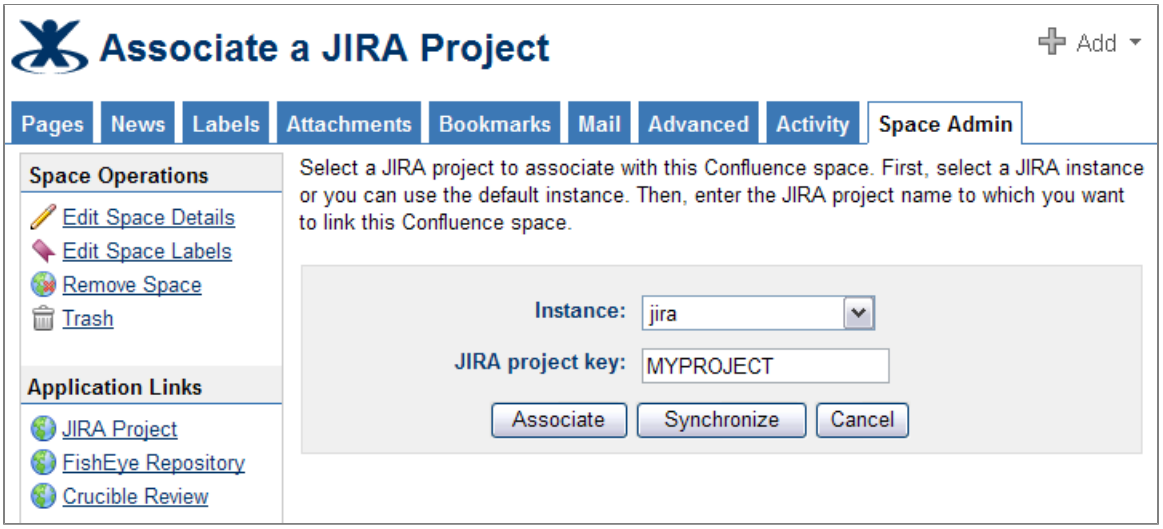


Synchronising Project Links

You can add a project link to your Application Links suite via the JIRA or the Confluence administration screens. The project link will then appear in the list on the administration screen where you added it.

Now you need to synchronise with the other applications in the Application Links suite. This will let the other applications know that the project link has been added. Now you need to synchronise with the other applications in the Application Links suite. This will let the other applications know that the project link has been added. For example, if you added a project link from a Confluence space to a JIRA project via the Confluence administration screens, you should synchronise so that the JIRA project knows it is linked to the Confluence space.

1. In Confluence, log in as a space administrator.
2. Go to the '**Space Admin**' page for the relevant space.
3. Click one of the applications in the '**Application Links**' section of the left-hand panel. In our example, we will synchronise a JIRA project to a Confluence space, so we will select '**JIRA Project**'.
4. The 'Associate' screen appears, as shown below:



5. Select the appropriate instance.
6. Click '**Synchronize**'.

Due to a current limitation, the instance that you are synchronising from must be called 'jira' if you are synchronising from JIRA, or 'confluence' if you are synchronising from confluence. See APL-2.

RELATED TOPICS

Application Links Administration Guide

Application Links User Guide

Your system administrator can link your Atlassian applications together via Application Links. Once your applications are linked in this way, automatic cross-linking is supported between the relevant applications. This means that you can quickly and easily add text which will be automatically hyperlinked when you save the Confluence page or JIRA issue, etc. The link will 'know' which application it should point to. You do not need to enter the application's full address.

Automatic cross-linking is supported between the following applications:

- JIRA
- Confluence
- FishEye
- Crucible
- Subversion

On this page:

- Creating Links from one Application to Another
  - Naming Convention for Crucible Projects
- Example: Linking from a Confluence Page to a JIRA Issue
- Example: Linking from a JIRA Issue to a Source Code File

Creating Links from one Application to Another

To create a link, enter the text shown in the '**Type this**' column below. The text is the same, no matter which application you are in.

To link to ...	Type this (excluding the angle brackets)	Examples
a JIRA issue	<Issue Key>	`TEST-123` `ACME-456`
a Confluence wiki page, in the default space. (Your system administrator can determine the default space by specifying project links and/or the primary Confluence instance.)	[<Page Name>]	`[My Draft Page]`

a Confluence wiki page, specifying a space.	[<Space Key>:<Page Name>]	`[TEST:My Draft Page]`

a changeset.	revision:<Changeset Number>
	rev:<Changeset Number>
	r<Changeset Number>
		`revision:98765`
		`rev:98765`
		`r98765`

a source file.	source:<Filename>	`source:trunk/pom.xml`
a Crucible review. See the note on naming conventions below	<Review Number>	`CR-TEST-34567`

Naming Convention for Crucible Projects

For AppLinks to work, your Crucible project keys must start with `CR-`. For example, you might name your Crucible project `CR` or `CR-MYPROJECT` or `CR-TEST` (as in the example above).

> This is a limitation in AppLinks. It comes about because Crucible review keys have the same structure as JIRA keys, so there is no way for AppLinks to differentiate them. In JIRA Studio (which is where AppLinks comes from), we worked around this by enforcing that all Crucible projects start with 'CR-'. Please watch and/or vote for APL-21 if you are interested in allowing links to projects that don't start with 'CR-'.

Example: Linking from a Confluence Page to a JIRA Issue

Let's say you have written a functional specification or a use case in Confluence, and you want to link to the JIRA issue which contains the original feature request.

- Edit the Confluence page.
- Enter the JIRA issue key, such as '`MYPROJECT-1`'.
- Save the Confluence page.
- The JIRA issue on your page will automatically be linked to the issue on your JIRA site. See the screenshot below.

Screenshot: Creating links from a Confluence page to a JIRA issue

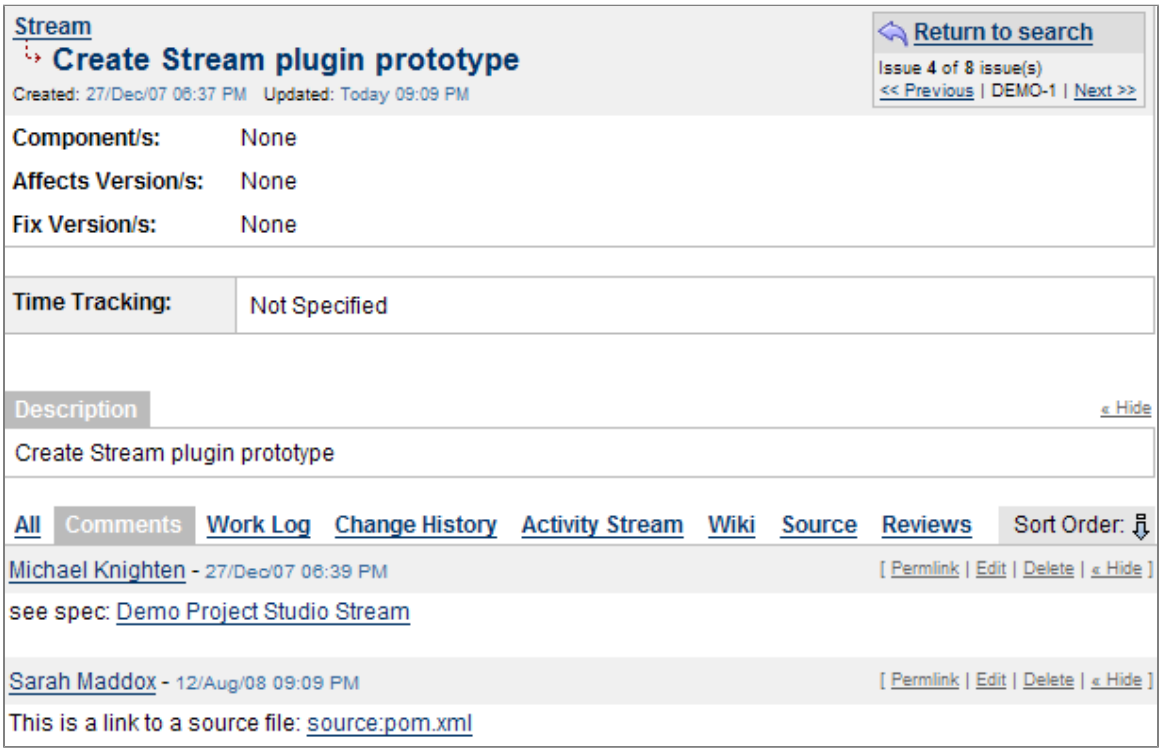
Example: Linking from a JIRA Issue to a Source Code File

Let's say you have a JIRA issue which requests the development of a new feature. You may want to add links in the JIRA issue, pointing to the source file(s) which implement the feature.

- Edit the JIRA issue.
- Enter '`source:`' followed by the source file name in a text field, such as the 'Description' or 'Comment' field.
- Save the JIRA issue.
- The text on your issue will automatically be linked to the source file via your FishEye site. See the screenshot below, which shows a link

from a JIRA comment.

Screenshot: Creating links from a JIRA issue to a source file



RELATED TOPICS

Application Links Installation Guide
Application Links Administration Guide
Application Links Documentation Home

Application Links Development Hub

The Development Hub is for people who want to create plugins, use the remote APIs or find out more about developing for the Atlassian products.

Plugin developers can make use of Application Links (AppLinks) to find out about other instances of Atlassian applications.

On this page:

- Supported Applications
- Using the AppLinks API
- Modifying Other Plugins to use AppLinks

Supported Applications

AppLinks supports the following applications:

- JIRA
- Confluence
- FishEye
- Crucible
- Subversion

Using the AppLinks API

You can use the AppLinks API to look up associated application instances and keys.

com.atlassian.applinks.api.ApplicationLinksClient

Method	Description
`getLinkedApplication(applicationType, instanceName, localKey)`	Get the linked application for the given application type, instance, and local key. The `applicationType` argument must be one of 'JIRA', 'CONFLUENCE', 'FISHEYE', 'CRUCIBLE' or 'SVN'. This method returns a `com.atlassian.applinks.api.ApplicationLink` object, which contains the remote URL of the application instance and the remote key that matches the supplied local key.

Modifying Other Plugins to use AppLinks

If another plugin wishes to use AppLinks, that plugin may include the AppLinks API classes in its jar, and use its application's specific component manager to find out if the AppLinks plugin is installed.

For example, in JIRA, you may use this code to detect if AppLinks is available:

```
if (ComponentManager.getComponentInstanceOfType(ApplicationLinksClient.class) != null)
{
      // AppLinks is installed
}
```

RELATED TOPICS

Application Links Documentation Home
Atlassian Product Integration

Application Links Release Notes

Current released version
Application Links **2.1.0** is now available. See the Application Links 2.1 Release Notes

Application Links Release Notes

- Application Links 2.1 Release Notes
- Application Links 2.0.1 Release Notes
- Application Links 1.3.1 Release Notes
- Application Links 1.1.2 Release Notes

Application Links 2.1 Release Notes

6 October 2009

Atlassian is delighted to announce the release of **Application Links 2.1**. This release focuses on providing support for JIRA 4.0.

AppLinks now includes a JIRA plugin for JIRA 4.0 and later, supporting version 2 plugins, as well as a legacy JIRA plugin for JIRA 3.13.5, supporting version 1 plugins.

Don't have Application Links yet?

Take a look at the features in the User Guide. Then follow our Installation Guide.

Comments, Requests and Feedback

We would love your feedback. Please log your requests, bug reports and comments in our issue tracker.

List of Fixes in this Release

JIRA Issues (3 issues)			

Key	Summary	Priority	Status
APL-67	Make AppLinks use AMPS		Resolved
APL-68	Get renderer-component-factory to work in JIRA 4.0		Resolved
APL-70	Incorrect string identified as revision		Resolved

Application Links 2.0.1 Release Notes

10 July 2009

With great pleasure, Atlassian announces the release of **Application Links 2.0.1**. This is the first public release of AppLinks 2.x. (Version 2.0.0 was not released publicly.)

From version 2.0.1 and later, AppLinks is a **version 2** plugin as defined by the Atlassian Plugin Framework 2. This means that AppLinks is now compatible with Atlassian applications that use version 2 of the plugin framework. For JIRA, we provide a legacy version 1 plugin, since JIRA 3.13.x does not yet support version 2 of the plugin framework.

Full compatibility details are in the installation guide. In summary, AppLinks is now compatible with:

- JIRA 3.13.5 (due for release soon)
- Confluence 3.0.1 (due for release soon)
- FishEye 2.0.0
- Crucible 2.0.0

Using Application Links 2.0.1, you can now map one JIRA project to multiple FishEye repositories. We use Application Links primarily in JIRA Studio, where this new feature allows the source tab on an issue page to show commits against multiple projects.

Don't have Application Links yet?

Take a look at the features in the User Guide. Then follow our Installation Guide.

Comments, Requests and Feedback

We would love your feedback. Please log your requests, bug reports and comments in our issue tracker.

List of Fixes in Application Links 2.0.1

JIRA Issues (13 issues)			
Key	**Summary**	**Priority**	**Status**
APL-64	System Error by activating any link renderer component		Closed
APL-26	Unable to select Confluence Space from JIRA		Closed
APL-40	Provide administration screens to link a project to multiple remote keys		Closed
APL-39	getComponent throws NullPointerException right after installation in confluence		Closed
APL-30	Synchronisation FAILURE between JIRA and FishEye		Closed
APL-25	Make Applinks compatiable with fisheye/crucible 1.6.1		Closed
APL-33	Upgrade/merge fisheye applinks to plugins 2.		Closed
APL-43	JAR files in AppLinks distribution zip file should contain version number		Closed
APL-48	Can't define confluence spaces on projects admin page since JIRA 3.13.3		Closed
APL-57	Update AppLinks to support Confluence 3.0		Closed
APL-60	Bad linking if jira/confluence not in root of domain		Closed
APL-61	Make AppLinks compatible with FishEye 2.0.0		Closed
APL-44	Add accessor methods to TrustedApplicationsSynchronizer		Closed

Application Links 1.3.1 Release Notes

25 September 2009

With great pleasure, Atlassian announces the release of **Application Links 1.3.1**. This is a bug fix release for AppLinks **1.3.x**. In particular, it fixes the bug that caused the error 'Unable to render content due to system error: null' when the content to be rendered includes a revision label, such as 'r37468'.

Fixes in This Release

JIRA Issues (2 issues)			
Key	**Summary**	**Priority**	**Status**
APL-70	Incorrect string identified as revision		Resolved
APL-12	Unable to render content due to system error: null displays when field/page contains revision label		Resolved

Application Links 1.1.2 Release Notes

15 August 2008

With great pleasure, Atlassian announces the release of **Application Links 1.1.2**.

Application Links (or AppLinks) was originally developed for use in JIRA Studio, to allow easy linking between issues, wiki pages, source files and reviews. Now you can install the Application Links plugin on your own JIRA, Confluence, FishEye, Crucible and Subversion sites.

Let your users feel the power. Just type in an issue key (such as MYPROJECT-1) onto a Confluence page and see it automatically linked to the issue on your JIRA site. Or type a Confluence page name into a JIRA issue, and it will link directly to that page on your wiki.

Don't have Application Links yet?

Take a look at the features in the User Guide. Then follow our easy installation instructions.

Interested in other ways of integrating your Atlassian applications?

Read more about integrating your Atlassian applications

Application Links FAQ

Application Links FAQ

Known issues, hints and tips and answers to commonly raised questions about configuring and using Application Links:

- How can I find known issues and workarounds?
- Can I link two instances of the same application?
- I have 2 FishEye instances - can I link them to each other?
- Why don't my links show as links in JIRA?

How can I find known issues and workarounds?

Below is a list of the open issues for this application, drawn from the Atlassian issue tracker.

- Before reporting a bug or requesting a new feature, please take a look to see if it has already been reported.
- If you find a likely-looking issue, click the link to find more information and possible workarounds.

Errors were reported by the JIRA trusted connection.

- APP_UNKNOWN; Unknown Application: {0}; ["confluence:4557196"]

JIRA Issues (6 issues)				
Type	**Key**	**Summary**	**Reporter**	**Status**

	APL-35	Applinks interferes with metadata storing correct data	Bob Swift	Open
	APL-22	Cannot embed images in Confluence that contain JIRA key like text in their names.	gumshoes	Open
	APL-10	Special Characters in Confluence Page Titles does not produce links	David Yu	Open
	APL-16	It's not possible to link to personal spaces.	István Lrincz	Open
	APL-54	After setting association on a space with JIRA it doesn't display a status message or redirect you.	Eric Dalgliesh	Open
	APL-58	Add input field for FishEye admin password in Confluence's AppLink instance add/edit pages	Alex Wei	Open

Can I link two instances of the same application?

No. You can add multiple instances of the same application (see More about Adding Applications) but you cannot use Application Links to connect two instances of the same application. For example, you cannot link one JIRA site to another JIRA site. You can link a JIRA site to a Confluence site, or a JIRA site to a FishEye/Crucible site, etc.

I have 2 FishEye instances - can I link them to each other?

You can add multiple instances of the same application (see More about Adding Applications) but you cannot use Application Links to connect two instances of the same application. For example, you cannot link one JIRA site to another JIRA site. You can link a JIRA site to a Confluence site, or a JIRA site to a FishEye/Crucible site, etc.

Why don't my links show as links in JIRA?

If JIRA's Wiki Renderer is not enabled, JIRA link rendering will not work. In JIRA, go to JIRA field configuration and enable the Wiki Renderer for the Description field. Refer to the JIRA documentation for instructions.