



Documentation for Crucible 3.0

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Crucible Documentation Home

Getting started

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Getting Started

Atlassian Crucible is the on-premises code review solution for enterprise teams. It allows your development teams to catch major defects, improve code architecture, or discuss desired improvements, without the need for meetings.

This section describes how to install, set up and get started with Crucible.

Related pages:

- [Using Crucible](#)
- [Administering Crucible](#)
- [Crucible FAQ](#)
- [Crucible upgrade guide](#)

System requirements

- Crucible is a Java web application, that works with all modern browsers. See our [Supported platforms](#) page to find out about system requirements.

Download and install Crucible

- [Windows](#)
- [Mac](#)
- [Linux](#)

Work with projects

Crucible integrates with Subversion, Git, Mercurial, CVS and Perforce. Find out how to [connect to repositories](#), [set up projects](#) and [create reviews](#).

Integrate Crucible with other Atlassian applications

As a first step, see [JIRA integration in Crucible](#).

Read more about using Crucible







You are looking at the Crucible documentation. Browse using the tree in the panel on the left, or use the search at the top right.

















Supported Platforms





This page shows the supported platforms for **Crucible 3.0.x** and its minor releases.

Key:  = Supported;  = Not Supported

Java Version		
------------------------------	--	--

JRE / JDK	 1.6  1.7	<p>Crucible requires Java Runtime (JDK or JRE), version as noted. Pre-release/Early access versions of the Java Runtime are <i>not supported</i>.</p> <p>You can download a Java Runtime for Windows/Linux/Solaris. On Mac OS X, the JDK is bundled with the operating system.</p> <p>We highly recommend that you use the Oracle JVM (or use the default Mac OS X JVM), as other implementations have not been tested.</p> <p>Please note:</p> <ul style="list-style-type: none"> Once you have installed the JDK, you need to set the JAVA_HOME environment variable. See Installing Crucible on Windows or Installing Crucible on Linux and Mac for details. If you are using a 64-bit JVM, please ensure that you've set your max heap size (<code>-Xmx</code>) to a reasonable value, considering the RAM requirements of your system.
Operating Systems		
Microsoft Windows		<ul style="list-style-type: none"> Crucible is a pure Java application and should run on any platform provided the requirements for the JRE or JDK are satisfied.  Although Crucible can be run in virtualised environments, Atlassian is not yet able to provide technical support for performance-related problems in a virtualised environment. If you do chose to run Crucible in a VM, please ensure that you choose a VM with good IO throughput.
Linux		
Apple Mac OS X		
Databases		

MySQL	 MySQL Enterprise Server 5.x  MySQL Community Server 5.x	<p>Crucible supports a number of external databases, as listed. See the Crucible Database documentation for further details.</p> <p> For MySQL:</p> <ul style="list-style-type: none"> • For 5.0, version must be 5.0.21 or later • For 5.1, version must be 5.1.10 or later • For 5.6, version must be 5.6.11 or later.
PostgreSQL	 8.2, 8.3, 8.4	
Oracle	 11g	
SQL Server	 2005, 2008, 2008 R2	
HSQldb (³)	 Bundled; for evaluation use only	<p>The Crucible built-in database, running HSQldb, is somewhat susceptible to data loss during system crashes.</p> <p>We recommend that you do not use HSQldb for production systems.</p> <p>External databases are generally more resistant to data loss during a system crash and are more suited for production use.</p>
Web Browsers		
Microsoft Internet Explorer	 8.0, 9.0  6.0 and 7.0 are not supported	
Mozilla Firefox	 Latest stable version supported  3.6, 4.0	
Safari	 Latest stable version supported  4, 5	
Chrome	 Latest stable version supported	
Version Control Systems		
Subversion (SVN)	 Server 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7	<p>The client uses SVNKit or native JavaHL.</p> <p>Version 1.8 support is currently being assessed. Crucible does not yet work for file:// access to repositories created with Subversion 1.8.</p>
CVS (and CVSNT)	 All versions	

Perforce (P4)	 Client version 2007.3 or later  Server version 2005.1 or later	The Server must support the ztag tagged protocol.
Git	 1.7.1.1 or later	
Mercurial (Hg)	 1.5.1 or later	Mercurial 2.1 has a bug that makes it incompatible with Crucible. Please use Mercurial 2.1.1 or later.

Deployment Notes for Source Code Repositories

Crucible can also store uploaded files in its own database, removing the need for any kind of repository. A number of external databases are supported when Crucible is used with FishEye. See the [FishEye Supported Platforms](#).

End of Support Announcements for Crucible

This page contains announcements of the end of support for various platforms and browsers when used with Crucible. This is summarised in the table below. Please see the sections following for the full announcements. End of Support Matrix for Crucible

Platform	Crucible End of Support
MySQL 5.0	January 2012
PostgreSQL 8.0 and 8.1	January 2012
IBM ClearCase (all versions)	4 April 2012 (announcement)

The table above summarises information regarding the end of support announcements for upcoming Crucible releases. If a platform (version) has already reached its end of support date, it is not listed in the table.

Why is Atlassian ending support for these platforms?

Atlassian is committed to delivering improvements and bug fixes as fast as possible. We are also committed to providing world class support for all the platforms our customers run our software on. However, as the complexity of our applications grows, the cost of supporting multiple platforms increases exponentially. Each new feature has to be tested on several combinations of application servers, databases, web browsers, etc, with setup and ongoing maintenance of automated tests. Moving forward, we want to reduce the time spent there to increase Crucible development speed significantly.

On this page (most recent announcements first):

- [Deprecated Database Support for Crucible \(4 October 2011\)](#)
- [Deprecated Web Browsers for Crucible \(21 March 2011\)](#)
- [Deprecated Java Platforms for Crucible \(21 March 2011\)](#)
- [Deprecated SCM Repository Support for Crucible \(4 April 2011\)](#)

Deprecated Database Support for Crucible (4 October 2011)

This section announces the end of Atlassian support for certain databases for Crucible.

We will **stop supporting older versions of databases** as follows:

- For the next major version of Crucible, in January 2012, support for MySQL 5.0, PostgreSQL 8.0 and 8 will end.

Please refer to the [Supported Platforms](#) for more details regarding platform support for Crucible. If you have questions or concerns regarding these announcements, please email `eol-announcement` at `atlassian dot com`.

Database	Support End Date
MySQL 5.0	January 2012
PostgreSQL 8.0 and 8.1	January 2012

End of Support Notes for MySQL 5.0 and PostgreSQL 8.0 and 8.1:

- Atlassian intends to end of life support for MySQL 5.0, PostgreSQL 8.0 and 8.1 in January 2012. The release of Crucible after January 2012 will not support MySQL 5.0, PostgreSQL 8.0 or 8.1.
- As mentioned above, the releases of Crucible before January 2012 will contain support for MySQL 5.0 and PostgreSQL 8.0 and 8.1.

Deprecated Web Browsers for Crucible (21 March 2011)

This section announces the end of Atlassian support for certain web browsers for Crucible.

We will **stop supporting older versions of web browsers** as follows:

- From Crucible 2.6, due in May 2011, support for Internet Explorer 7 will end.

The details are below. Please refer to the [Supported Platforms](#) for more details regarding platform support for Crucible. If you have questions or concerns regarding this announcement, please email `eol-announcement` at `atlassian dot com`.

End of Life Announcement for Web Browser Support

Web Browsers	Support End Date
Internet Explorer 7	When Crucible 2.6 releases (target May 2011)

Internet Explorer 7 Notes:

- Crucible 2.5 is the last version to officially support Internet Explorer 7.
- Crucible 2.6 is currently targeted to release in May 2011 and will not be tested with Internet Explorer 7. After the Crucible 2.6 release, Atlassian will not provide fixes in older versions of Crucible for bugs affecting Internet Explorer 7.

Deprecated Java Platforms for Crucible (21 March 2011)

This section announces the end of Atlassian support for certain Java Platforms for Crucible.

We will **stop supporting the following Java Platforms**:

- From Crucible 2.6, due in May 2011, support for Java Platform 5 (JDK/JRE 1.5) will end.

We are ending support for Java Platform 5, in line with [Sun's Java SE Support Road Map](#) (i.e. "End of Service Life" for Java Platform 5 dated October 30, 2009). We are committed to helping our customers understand this decision and assist them in updating to Java Platform 6, our supported Java Platform.

The details are below. Please refer to the [Supported Platforms](#) for more details regarding platform support for Crucible. If you have questions or concerns regarding this announcement, please email `eol-announcement`

at atlassian dot com.

End of Life Announcement for Java Platform Support

Java Platform	Support End Date
Java Platform 5 (JDK/JRE 1.5)	When Crucible 2.6 releases, due May 2011

Java Platform 5 End of Support Notes:

- Crucible 2.5 is the last version to officially support Java Platform 5 (JDK/JRE 1.5).
- Crucible 2.6 is currently targeted to release in May 2011 and will not be tested with Java Platform 5 (JDK/JRE 1.5). After the Crucible 2.6 release, Atlassian will not provide fixes in older versions of Crucible for bugs affecting Java Platform 5 (JDK/JRE 1.5).

Deprecated SCM Repository Support for Crucible (4 April 2011)

This section announces the end of Atlassian support for certain SCM repositories for Crucible. End of support means that Atlassian will remove all functionality related to certain SCM repositories past the specified date. Releases before that date will contain the functionality that supports the SCM, however, Atlassian will fix only critical bugs that affect functionality for that SCM, and will not add any new features for that SCM. After the specified date, Atlassian will not support the functionality in any version of Crucible.

Please refer to the [Supported Platforms](#) for more details regarding platform support for Crucible. If you have questions or concerns regarding these announcements, please email `eol-announcement` at `atlassian dot com`.

SCM Repository	Support End Date
IBM ClearCase (all versions)	4 April 2012

IBM ClearCase End of Support Notes:

- Atlassian intends to end of life IBM ClearCase functionality on 4 April 2012. The release of Crucible after 4 April 2012 will not contain any IBM ClearCase functionality.
- As mentioned above, the releases of Crucible before 4 April 2012 will contain support for IBM ClearCase. However, we will only be fixing critical bugs related to IBM ClearCase and will not be adding any features.
- After 4 April 2012, Atlassian will not support IBM ClearCase functionality in any version of Crucible.

End of Support Announcement for IBM ClearCase

Support in Crucible for [IBM ClearCase](#) ended on **April 4th 2012**. Crucible 2.8, and later versions, do not have support for ClearCase.

We have made these decisions to reduce the testing time required for each release and to help us to deliver market-driven features faster.

You can stay on older versions of Crucible to support your existing installations with ClearCase. However, Atlassian will not be providing any ClearCase-related support for any Crucible version after 4 April 2012, and **has removed all functionality** related to ClearCase from Crucible versions released after April 4th 2012. We are committed to helping our customers understand this decision and to assist you in migrating to a different SCM, if needed.

For more details about the announcement, please refer to this page: [End of Support Announcements for Crucible](#).

Installing Crucible on Windows

Hey! We're going to perform a clean install of Crucible on Windows. There are a few steps involved, but we think

you'll find it easy to follow along.

If you already have FishEye installed, you should read [Upgrading from FishEye to Crucible](#) instead.

1. Check supported platforms

Better check the [Supported Platforms](#) page first; it lists the application servers, databases, operating systems, web browsers and JDKs that we have tested Crucible with, and that we recommend.

Atlassian only officially supports Crucible running on x86 hardware and 64-bit derivatives of x86 hardware.

Related pages:

- [Running Crucible as a Windows service](#)
- [Upgrading from FishEye to Crucible](#)
- [Installing Crucible on Linux and Mac](#)
- [Starting to use Crucible](#)
- [Supported Platforms](#)

2. Check your version of Java


In a command prompt, run this:

```
java -version
```

The version of Java should be **1.6.0** or higher. If you intend to [Running Crucible as a Windows service](#), using the Java Service Wrapper, you should use 32-bit Java (even on a 64-bit machine), and the JDK rather than the JRE (so as to take advantage of the `-server` parameter).

▼ [If you don't see Java 1.6.0 or higher, then get Java...](#)

Download and install the Java Platform JDK from [Oracle's website](#).

 *The Java install path should not contain spaces, so don't install into C:\Program Files\Java\.*
Instead, use a path like C:\Java.

Now try running 'java -version' again to check the installation. The version of Java should be **1.6.0** or higher.

3. Check that Windows can find Java

Windows uses the JAVA_HOME environment variable to find Java. To check that, in a new command prompt, run:

```
echo %JAVA_HOME%
```

You should see a path to the Java install location that does *not* contain spaces. We recommend that JAVA_HOME should point to the Java executable in your PATH.

▼ [If you don't see a path without spaces...](#)

- If you see a path with spaces, like `C:\Program Files\Java\`, then sorry, but go back to 2. and reinstall Java to a location that doesn't have spaces.
- If you don't see a path at all, or if you just see `%JAVA_HOME%`, then set `JAVA_HOME` as follows:

For Windows 7:

1. Go to **Start**, search for "sys env" and choose **Edit the system environment variables**.
2. Click **Environment Variables**, and then **New** under 'System variables'.
3. Enter "JAVA_HOME" as the **Variable name**, and the absolute path to where you installed Java as the **Variable value**. Don't use a trailing backslash. We recommend that `JAVA_HOME` should point to the Java executable in your PATH.
4. Now, in a new command prompt, try running '`%JAVA_HOME%\bin\java -version`'. You should see the same version of Java as you saw above.

4. Create a dedicated Crucible user (recommended)

For production installations, we recommend that you create a new dedicated Windows user that will run Crucible on your system. This user:

- Should *not* have admin privileges.
- Should be a non-privileged user with read, write and execute access on the Crucible home (install) directory and instance (data) directory. These directories are described below.
- Should only have read access to your repositories.

If you created a dedicated Crucible user, ensure you are logged in as this user to complete the remaining instructions.

5. Now it's time to get Crucible


Download Crucible from the Atlassian download site.

Extract the downloaded file to an install location:

- Folder names in the path to your Crucible executable should not have spaces in them. The path to the extracted directory is referred to as the `<Crucible home directory>` in these instructions. If you use FishEye and Crucible together, they run as one instance – see [Crucible and FishEye](#).
- If you expect to have a large number of users for this Crucible installation, and Crucible will be [connected to an external database](#), consider installing Crucible on a different server from the one running the external database, for improved performance.

6. Tell Crucible where to store your data

The Crucible instance directory is where your Crucible data is stored.

 You *should not* locate your Crucible instance directory inside the `<Crucible home directory>` — these should be entirely separate locations. If you do put the instance directory in the `<Crucible home directory>` it will be overwritten, and lost, when Crucible gets upgraded. And by the way, you'll need separate Crucible instance directories if you want to run multiple copies of Crucible.

Create your Crucible instance directory, and then tell Crucible where you created it by setting a `FISHEYE_INST` environment variable, as follows:

For Windows 7:

1. Go to **Start**, search for "sys env" and choose **Edit the system environment variables**.
2. Click **Environment Variables**, and then **New** under 'System variables'.
3. Enter "FISHEYE_INST" as the **Variable name**, and the absolute path to your new Crucible instance

directory as the **Variable value**. Don't use a trailing backslash.

4. Now copy the newly extracted <Crucible home directory>\config.xml file to the root of your new Crucible instance directory.

i Note that if Crucible is run as a Windows service using the Java Service Wrapper, Crucible-specific environment variables such as `FISHEYE_INST` are ignored – these must be set in the wrapper.conf file. See [Running Crucible as a Windows service](#).

If you have a large number of repositories, we recommend you increase the default number of files that Crucible is allowed to open. See the following knowledge base article for more info: [Subversion Indexer Paused with "Too many open files" Error](#).

7. Start Crucible!

In a command prompt, change directory to <Crucible home directory> and run this:

```
bin\start.bat
```

After a few moments, in a web browser on the same machine, go to <http://localhost:8060/> (or, from another machine, type <http://hostname:8060/>, where `hostname` is the name of the machine where you extracted Crucible).

Enter your license, then an admin password, to finish the setup.

You can postpone setting up JIRA integration until later if you wish; see [Configuring JIRA integration in the Setup Wizard](#).

8. Connect to an external database (recommended)

If you intend to use this Crucible installation in a production environment, it is highly recommended that you use one of the [supported](#) external databases. See [Migrating to an external database](#).

If you are evaluating Crucible, or don't wish to do this now, Crucible will happily use its embedded database, and you can easily migrate later.

9. Set up your mail server

Configure the Crucible email server so that users can get notifications from Crucible. See [Configuring SMTP](#).

10. Add users and repositories

Now is the time to set up your users in Crucible, and to tell Crucible about any existing repositories you have. Please read [Starting to use Crucible](#) for the details.

Crucible will perform an initial index of your repositories, during which it accesses, indexes and organises a view of your repositories (including all historical items) back to the earliest commits. If you are evaluating Crucible, we suggest that you index a single project, so you can use Crucible as soon as possible. If you choose to index your entire repository, be aware that this can take a long time (possibly days) for massive or complex repositories and can be more complex to set up (especially for Subversion). The basic process is slightly different for each SCM type.

11. Stop Crucible (optional)

In a command prompt, change directory to <Crucible home directory> and run this:

```
bin\stop.bat
```

Running Crucible as a Windows service

Crucible can be run as a service under Microsoft Windows using a [Java Service Wrapper](#).

The service wrapper provides the following benefits:

- Allows Crucible, which is a Java application, to be run as a Windows Service.
- No need for a user to be logged on to the system at all times, or for a command prompt to be open and running on the desktop to be able to run Crucible.
- The ability to run Crucible in the background as a service, for improved convenience, system performance and security.
- Crucible is launched automatically on system startup and does not require that a user be logged in.
- Users are not able to stop, start, or otherwise tamper with Crucible unless they are an administrator.
- Provides advanced failover, error recovery, and analysis features to make sure that Crucible has the maximum possible uptime.



Please note that:

- This page should be read in conjunction with [Installing Crucible on Windows](#).
- You should use 32-bit Java to run the service wrapper provided via the link in the install instructions below, even on a 64-bit machine.
- You should use the Java JDK, rather than the JRE, to take advantage of the `-server` parameter, provided in the Wrapper configuration of [wrapper.zip](#), which enables the [Java HotSpot\(TM\) Server VM](#). See the [note](#) below for details.

On this page:

- [Installing the Java Service Wrapper](#)
- [Setting Crucible environment variables for Windows Services](#)
- [Troubleshooting](#)
 - [Extracting files from wrapper.zip](#)
 - [Warning when using 64-bit Java JDK](#)
 - [Wrapper configuration and "-server" parameter](#)

Related pages:

- [Installing Crucible on Windows](#)

Installing the Java Service Wrapper

To install the Java Service Wrapper on Windows:

1. Download wrapper.zip from [here](#).
2. Unzip the wrapper zip file into your <Crucible home directory> (that is, the directory into which Crucible was originally installed). Note, the resulting folder structure should be similar to <Crucible home directory>\wrapper or <Crucible home directory>\wrapper\bin, etc and NOT <Crucible home directory>\wrapper\wrapper or <Crucible home directory>\wrapper\wrapper\bin. The location of the wrapper directory is important.
3. Tell the wrapper where to find the Java JDK by editing the <Crucible home directory>\wrapper\conf\wrapper.conf file, replacing this:

```
# Java Application
wrapper.java.command=java
```

with the following, and comment out the option you don't wish to use:

```
# Java Application

# Option 1: If you have JAVA_HOME defined in your Windows system environment
variables, then you can use:
wrapper.java.command=%JAVA_HOME%/bin/java


# Option 2: If you have multiple JDKs installed, and you don't want to use a
Windows environment variable to specify which one to use, provide the absolute
path to where the JDK is installed (e.g. C:/Java/jdk1.7.0_05/bin/java):
wrapper.java.command=C:/<path to Java location>/bin/java
```

To get confirmation in the wrapper log that the wrapper is using the correct Java JDK, add the following lines to the `wrapper.conf` file:

```
# Tell the Wrapper to log the full generated Java command line.
wrapper.java.command.loglevel=INF
```

You can find the logs at `<Crucible home directory>\var\log\wrapper.log`.

4. Set the `FISHEYE_INST` environment variable (and other Crucible-specific environment variables) in the `<Crucible home directory>\wrapper\conf\wrapper.conf` file, following the [instructions](#) below.
5. Install Crucible as a service as follows:
 - a. Open an Administrator command prompt by searching for 'Command prompt' in the Windows Start menu, right-clicking on **Command Prompt** and then choosing **Run as administrator**.
 - b. Change directory to `<Crucible home directory>\wrapper` and run `bin\Fisheye-Install-NTService.bat`. If you run into any problems starting the wrapper, you'll find its logs in `<Crucible home directory>\var\log\wrapper.log`.
6. Start the Crucible service (which has the name 'Fisheye') from the Windows Control Panel; you can search in the Start menu for 'services', and in the list of services, right-click on the 'Fisheye' item and choose **Start**. You can also stop the Crucible service in this way.

 Please note that:

- If you make changes to the `wrapper.conf` file, having already started the service, you need to stop and then restart the service for it to make use of the changed configuration.
- If in future you move the Crucible home directory, you will need to uninstall (using `Fisheye-Uninstall-NTService.bat`) and then reinstall the Crucible service.

Setting Crucible environment variables for Windows Services

Please note, that if you run Crucible as a Windows service, any Crucible-specific [environment variables](#) must be set in your `<Crucible home directory>\wrapper\conf\wrapper.conf` file.

If you run into any problems starting the wrapper, you'll find its logs in `<Crucible home directory>\var\log\wrapper.log`.

If there are other Java parameters you wish to add, then you will need to add them under the additional parameters section, e.g.

```
# JDK Additional Parameters for jmx
wrapper.java.additional.4=-Dcom.sun.management.jmxremote
wrapper.java.additional.5=-Dcom.sun.management.jmxremote.port=4242
wrapper.java.additional.6=-Dcom.sun.management.jmxremote.authenticate=false
wrapper.java.additional.7=-Dcom.sun.management.jmxremote.ssl=false
wrapper.java.additional.8=-Dcom.sun.management.jmxremote.authenticate=false
wrapper.java.additional.9=-Dcom.sun.management.jmxremote.password.file=.
/wrapper/jmxremote.password
wrapper.java.additional.10=-Dwrapper.mbean.name="wrapper:type=Java
Service Wrapper Control"
```

To add the FISHEYE_INST environment variable, the Java MaxPermSize parameter, or the -Xrs options, use the following:

```
wrapper.java.additional.11=-Dfisheye.inst="c:/path/to/FISHEYE_INST"
wrapper.java.additional.12=-XX:MaxPermSize=128m
wrapper.java.additional.13=-Xrs
```

Note that the the -Xrs options should be used when running Crucible as a service under Windows to prevent the JVM closing when an interactive user logs out.

Your memory settings can also be found in this file:

```
# Initial Java Heap Size (in MB)
wrapper.java.initmemory=256

# Maximum Java Heap Size (in MB)
wrapper.java.maxmemory=1024
```

Increase these values if you have a large repository or expect to use more memory (init of 256, and a max of 1024 are the default values).

In Fisheye/Crucible 1.6.4 and higher, you can check the JVM input arguments by clicking **System info**, under 'System Settings' in the admin area.

Troubleshooting

Extracting files from wrapper.zip

Some customers have reported trouble running the wrapper. These can be avoided by:

- Uncompressing wrapper.zip with Winzip or WinRar rather than using the **Extract All** command in the Windows right-click contextual menu.
- If the wrapper.zip filename appears green instead of black in Windows Explorer, decrypt it, prior to unzipping its contents, by right-clicking on the file, choose **Properties**, click the **Advanced** button, then clear the **Encrypt contents to secure data** checkbox.

Warning when using 64-bit Java JDK

When using a 64-bit Java JDK with the wrapper obtained via the link in the install instructions above, you may see the following in the wrapper.log file:

*WARNING - Unable to load the Wrapper's native library 'wrapper.dll'. The file is located on the path at the following location but could not be loaded:
C:\installs\service\fisheye28\wrapper\lib\wrapper.dll.*

Please verify that the file is readable by the current user and that the file has not been corrupted in any way. System signals will not be handled correctly.

This is caused by using a 64-bit JDK (even on a 64-bit machine). Changing to a 32-bit version of the JDK will prevent this warning. Community Edition versions of the 64-bit Windows Java Service Wrapper are not currently available.

Wrapper configuration and "-server" parameter

Please note that the wrapper configuration provided above uses the `-server` parameter to enable the [Java HotSpot\(TM\) Server VM](#). This feature is only available if you use the JDK. If you use the JRE you will likely get the following error in your logs:

INFO | jvm 1 | 2010/12/20 18:19:28 | Error: missing 'server' JVM at 'C:\Program Files\Java\jre6\bin\server\jvm.dll'.

A common issue is that customers remove the `-server` parameter from the `wrapper.conf` file. Please note that if you do this, the wrapper script will ignore any of the following JVM parameters in the file unless you change the sequence to be in order, starting from `wrapper.java.additional.1`. This is an issue with the Wrapper application.

In this situation it's best to install and run Fisheye/Crucible with the JDK to get all the advantages of the `-server` functionality. You also need to force the wrapper to use the JDK by specifying the path to the Java JDK in the `wrapper.conf` file, as described in the installation instructions above.

Installing Crucible on Linux and Mac

Hey! We're going to install Crucible on a Linux box, or a Mac. There are a few steps involved, but we think you'll find it easy to follow along. If you already have FishEye installed, you should read [Upgrading from FishEye to Crucible](#) instead.

1. Check supported platforms

Better check the [Supported Platforms](#) page first; it lists the application servers, databases, operating systems, web browsers and JDKs that we have tested Crucible with, and that we recommend.

Atlassian only officially supports Crucible running on x86 hardware and 64-bit derivatives of x86 hardware.

Related pages:

- [Installing Crucible on Windows](#)
- [Starting to use Crucible](#)
- [Supported Platforms](#)

2. Check your version of Java

In a terminal, run this:

```
java -version
```

The version of Java should be **1.6.0** or higher.

▼ [If you don't see Java 1.6.0 or higher, then get Java...](#)

Download and install the Java Platform JDK from [Oracle's website](#).

Now try running 'java -version' again to check the installation. The version of Java should be **1.6.0** or higher.

3. Check that the system can find Java

In a terminal, run this:

```
echo $JAVA_HOME
```

You should see a path something like:

OSX	/System/Library/Frameworks/JavaVM.framework/Versions/CurrentJDK/Home/
Linux	/usr/lib/jvm/default-java

▼ If you don't see a path to the Java location, then set JAVA_HOME...

Linux	Mac
<p>Do either of the following:</p> <ul style="list-style-type: none"> If <code>JAVA_HOME</code> is not set, log in with 'root' level permissions and run: <pre>echo JAVA_HOME="path/to/JAVA_HOME" >> /etc/environment</pre> <p>where <code>path/to/JAVA_HOME</code> may be like: <code>/usr/lib/jvm/default-java</code></p> <ul style="list-style-type: none"> If <code>JAVA_HOME</code> needs to be changed, open the <code>/etc/environment</code> file in a text editor and modify the value for <code>JAVA_HOME</code> to: <pre>JAVA_HOME="path/to/JAVA_HOME"</pre> <p>It should look like:</p> <pre>JAVA_HOME=/usr/lib/jvm/default-java</pre>	<p>Insert the following in your <code>~/.profile</code> file:</p> <pre>JAVA_HOME="path/to/JAVA_HOME" export JAVA_HOME</pre> <p>where <code>path/to/JAVA_HOME</code> may be like: <code>/System/Library/Frameworks/JavaVM.framework/Versions/CurrentJDK/Home/</code></p> <p>Refresh your <code>~/.profile</code> in the terminal and confirm that <code>JAVA_HOME</code> is set:</p> <pre>source ~/.profile \$JAVA_HOME/bin/java -version</pre> <p>You should see a version of Java that is 1.6.0 or higher, like this:</p> <pre>java version "1.6.0_24"</pre>

4. Create a dedicated Crucible user (recommended)

For production installations, we recommend that you create a new dedicated user that will run Crucible on your system. This user:

- Should *not* have admin privileges.

- Should be a non-privileged user with read, write and execute access on the Crucible home (install) directory and instance (data) directory. These directories are described below.
- Should only have read access to your repositories.

If you created a dedicated Crucible user, ensure you are logged in as this user to complete the remaining instructions.

5. Now it's time to get Crucible

Download [Crucible](#) from the Atlassian download site.

Extract the downloaded file to an install location:

- Folder names in the path to your Crucible executable should not have spaces in them. The path to the extracted directory is referred to as the `<Crucible home directory>` in these instructions. If you use FishEye and Crucible together, they run as one instance, and use the same home directory – see [Crucible and FishEye](#).
- If you expect to have a large number of users for this Crucible installation, and Crucible will be [connected to an external database](#), consider installing Crucible on a different server from the one running the external database, for improved performance.


6. Tell Crucible where to store your data

The Crucible instance directory is where your Crucible data is stored.

1. Create your Crucible instance directory.
2. Tell Crucible where you created it by adding a `FISHEYE_INST` environment variable as follows:

Linux	Mac
Open the <code>/etc/environment</code> file in a text editor and insert :	Open the <code>~/.profile</code> file for the current user in a text editor and insert:
<pre>FISHEYE_INST="path/to/<Crucible instance directory>"</pre>	<pre>FISHEYE_INST="path/to/<Crucible instance directory>" export FISHEYE_INST</pre>

3. Now copy the newly extracted `<Crucible home directory>\config.xml` file to the root of your new Crucible instance directory.

 You *should not* locate your Crucible instance directory inside the `<Crucible home directory>` — they should be entirely separate locations. If you do put the instance directory in the `<Crucible home directory>` it will be overwritten, and lost, when Crucible gets upgraded. And by the way, you'll need separate Crucible instance directories if you want to run multiple copies of Crucible.

If you have a large number of repositories, we recommend you increase the default number of files that FishEye is allowed to open. See the following knowledge base article for more info: [Subversion Indexer Paused with "Too many open files" Error](#).

7. Start Crucible!

In a terminal, change directory to `<Crucible home directory>` and run this:

```
bin/start.sh
```

After a few moments, in a web browser on the same machine, go to <http://localhost:8060/> (or, from another machine, type <http://hostname:8060/> , where `hostname` is the name of the machine where you extracted Crucible).

Enter your license, then an admin password, to finish the setup.

You can postpone setting up JIRA integration until later if you wish; see [Configuring JIRA integration in the Setup Wizard](#).

8. Connect to an external database (recommended)

If you intend to use this Crucible installation in a production environment, it is highly recommended that you use one of the [supported](#) external databases. See [Migrating to an external database](#).

If you are evaluating Crucible, or don't wish to do this now, Crucible will happily use its embedded database, and you can easily migrate later.

9. Set up your mail server

Configure the Crucible email server so that users can get notifications from Crucible. See [Configuring SMTP](#).

10. Add users and repositories

Now is the time to set up your users in Crucible, and to tell Crucible about any existing repositories you have. Please read [Starting to use Crucible](#) for the details.

Crucible will perform an initial index of your repositories, during which it accesses, indexes and organizes a view of your repositories (including all historical items) back to the earliest commits. If you are evaluating Crucible, we suggest that you index a single project, so you can use Crucible as soon as possible. If you choose to index your entire repository, be aware that this can take a long time (possibly days) for massive or complex repositories and can be more complex to set up (especially for Subversion). The basic process is slightly different for each SCM type.

11. Stop Crucible (optional)

In a terminal, change directory to `<Crucible home directory>` and run this:

```
bin/stop.sh
```

Configuring JIRA Integration in the Setup Wizard

This page describes the 'Connect to JIRA' screen of the Crucible setup wizard.

You can connect your application to a JIRA server, to manage your users via JIRA and share information with JIRA. When you are installing the application, the setup wizard gives you the opportunity to configure the JIRA connection automatically. This is a quick way of setting up your JIRA integration with the most common options.

You can also configure the JIRA connections via the application administration screens. In that case, you will need to set up connections individually. There are two parts to the integration process:

- A peer-to-peer link between JIRA and the application for sharing information and facilitating integration features. This link is set up via Application Links.
- A client-server link between the application and JIRA for delegating user and group management to your JIRA server.

Requirements: You need JIRA 4.3 or later.

On this page:

- [Connecting to JIRA in the Setup Wizard](#)
- [Troubleshooting](#)
- [Notes](#)

Related pages:

- [User Management Limitations and Recommendations](#)
- [JIRA integration in Crucible](#)

Connecting to JIRA in the Setup Wizard

To configure JIRA integration while running the Crucible setup wizard:

1. Enter the following information on the '**Connect to JIRA**' step of the setup wizard:

- **JIRA Base URL**– The web address of your JIRA server. Examples:

```
http://www.example.com:8080/jira/  
http://jira.example.com
```

- **Admin Username** and **Admin Password** – The credentials of a user with the 'JIRA System Administrators' global permission in JIRA.
- **FishEye/Crucible Base URL** – Click 'Advanced Options' to see this field. JIRA will use this URL to access your FishEye/Crucible server. The URL you give here will override the base URL specified in your FishEye/Crucible administration console, for the purposes of the JIRA connection.
- **Groups to synchronize** – Click 'Advanced Options' to see this field. Select at least one JIRA group to synchronize. The default group is `jira-users`. JIRA will synchronize all changes in the user information on a regular basis. The default synchronization interval is 1 hour.
- **Admin Groups** – Click 'Advanced Options' to see this field. Specify a JIRA group whose members should have administrative access to FishEye/Crucible. The default group is `jira-administrators`.

2. Click the '**Connect to JIRA**' button.

3. Finish the setup process.

4. Configure the following setting in JIRA: [Allow remote API access](#).

Screenshot: Connecting to JIRA in the FishEye/Crucible setup wizard

Troubleshooting

▼ [Click to see troubleshooting information...](#)

This section describes the possible problems that may occur when integrating your application with JIRA via the setup wizard, and the solutions for each problem.

Symptom	Cause	Solution
<p>The setup wizard displays one of the following error messages:</p> <ul style="list-style-type: none"> Failed to create application link from JIRA server at <URL> to this <application> server at <URL>. Failed to create application link from this <application> server at <URL> to JIRA server at <URL>. Failed to authenticate application link from JIRA server at <URL> to this <application> server at <URL>. Failed to authenticate application link from <application> server at <URL> to this JIRA server at <URL>. 	<p>The setup wizard failed to complete registration of the peer-to-peer application link with JIRA. JIRA integration is only partially configured.</p>	<p>Remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup. Detailed instructions are below.</p>

<p>The setup wizard displays one of the following error messages:</p> <ul style="list-style-type: none"> Failed to register <application> configuration in JIRA for shared user management. Received invalid response from JIRA: <response> Failed to register <application> configuration in JIRA for shared user management. Received: <response> 	<p>The setup wizard failed to complete registration of the client-server link with JIRA for user management. The peer-to-peer link was successfully created, but integration is only partially configured.</p>	<p>Remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup. Detailed instructions are below.</p>
<p>The setup wizard displays the following error message:</p> <ul style="list-style-type: none"> Error setting Crowd authentication 	<p>The setup wizard successfully established the peer-to-peer link with JIRA, but could not persist the client-server link for user management in your <code>config.xml</code> file. This may be caused by a problem in your environment, such as a full disk.</p>	<p>Please investigate and fix the problem that prevented the application from saving the configuration file to disk. Then remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup. Detailed instructions are below.</p>
<p>The setup wizard displays the following error message:</p> <ul style="list-style-type: none"> Error reloading Crowd authentication 	<p>The setup wizard has completed the integration of your application with JIRA, but is unable to start synchronizing the JIRA users with your application.</p>	<p>Restart your application. You should then be able to continue with the setup wizard. If this solution does not work, please contact Atlassian Support.</p>
<p>The setup wizard displays the following error message:</p> <ul style="list-style-type: none"> An error occurred: <code>java.lang.IllegalStateException: Could not create the application in JIRA/Crowd (code: 500)</code>. Please refer to the logs for details. 	<p>The setup wizard has not completed the integration of your application with JIRA. The links are only partially configured. The problem occurred because there is already a user management configuration in JIRA for this <application> URL.</p>	<p>Remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup. Detailed instructions are below.</p>

No users can log in after you have set up the application with JIRA integration.	<p>Possible causes:</p> <ul style="list-style-type: none"> • There are no users in the group that you specified on the 'Connect to JIRA' screen. • For FishEye: There are no groups specified in the 'groups to synchronize' section of your administration console. • For Stash: You may not have granted any JIRA groups or users permissions to log in to Stash. 	<p>Go to JIRA and add some usernames to the group.</p> <ul style="list-style-type: none"> • For FishEye: Go to the FishEye administration screens and specify at least one group to synchronize. The default is 'jira-users'. • For Stash: Grant the Stash User permission to the relevant JIRA groups on the Stash Global permissions page. <p>If this solution does not work, please contact Atlassian Support.</p>
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Solution 1: Removing a Partial Configuration – The Easiest Way

If the application's setup wizard fails part-way through setting up the JIRA integration, you may need to remove the partial configuration from JIRA before continuing with your application setup. Please follow the steps below.

Remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup wizard:

1. Log in to JIRA as a user with the '**JIRA System Administrators**' global permission.
2. Click the '**Administration**' link on the JIRA top navigation bar.
3. Remove the application link from JIRA, if it exists:
 - a. Click '**Application Links**' in the JIRA administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
 - b. Look for a link to your application. It will have a base URL of the application linked to JIRA. For example:
 - If you want to remove a link between JIRA and FishEye, look for the one where the '**Application URL**' matches the base URL of your FishEye server.
 - If you want to remove a link between JIRA and Confluence, look for the one where the '**Application URL**' matches the base URL of your Confluence server.
 - If you want to remove a link between JIRA and Stash, look for the one where the '**Application URL**' matches the base URL of your Stash server.
 - c. Click the '**Delete**' link next to the application link that you want to delete.
 - d. A confirmation screen will appear. Click the '**Confirm**' button to delete the application link.
4. Remove the user management configuration from JIRA, if it exists:
 - a. Go to the JIRA administration screen for configuring the applications that have been set up to use JIRA for user management:
 - In JIRA 4.3: Click '**Other Applications**' in the '**Users, Groups & Roles**' section of the JIRA administration screen.
 - In JIRA 4.4: Select '**Administration**' > '**Users**' > '**JIRA User Server**'.
 - b. Look for a link to your application. It will have a name matching this format:

<Type> - <HostName> - <Application ID>

For example:

```
FishEye / Crucible - localhost -  
92004b08-5657-3048-b5dc-f886e662ba15
```

Or:

```
Confluence - localhost -  
92004b08-5657-3048-b5dc-f886e662ba15
```

If you have multiple servers of the same type running on the same host, you will need to match the application ID of your application with the one shown in JIRA. To find the application ID:

- Go to the following URL in your browser:

```
<baseUrl>/rest/applinks/1.0/manifest
```

Replace `<baseUrl>` with the base URL of your application.

For example:

```
http://localhost:8060/rest/applinks/1.0/manifest
```

- The application links manifest will appear. Check the application ID in the `<id>` element.
- a. In JIRA, click '**Delete**' next to the application that you want to remove.
5. Go back to the setup wizard and try the 'Connect to JIRA' step again.

Solution 2: Removing a Partial Configuration – The Longer Way

If solution 1 above does not work, you may need to remove the partial configuration and then add the full integration manually. Please follow these steps:

1. Skip the 'Connect to JIRA' step and continue with the setup wizard, to complete the initial configuration of the application.
2. Log in to JIRA as a user with the '**JIRA System Administrators**' global permission.
3. Click the '**Administration**' link on the JIRA top navigation bar.
4. Remove the application link from JIRA, if it exists:
 - a. Click '**Application Links**' in the JIRA administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
 - b. Look for a link to your application. It will have a base URL of the application linked to JIRA. For example:
 - If you want to remove a link between JIRA and FishEye, look for the one where the '**Application URL**' matches the base URL of your FishEye server.
 - If you want to remove a link between JIRA and Confluence, look for the one where the '**Application URL**' matches the base URL of your Confluence server.
 - If you want to remove a link between JIRA and Stash, look for the one where the '**Application URL**' matches the base URL of your Stash server.
 - c. Click the '**Delete**' link next to the application link that you want to delete.
 - d. A confirmation screen will appear. Click the '**Confirm**' button to delete the application link.
5. Remove the user management configuration from JIRA, if it exists:
 - a. Go to the JIRA administration screen for configuring the applications that have been set up to use JIRA for user management:
 - In JIRA 4.3: Click '**Other Applications**' in the '**Users, Groups & Roles**' section of the

JIRA administration screen.

- In JIRA 4.4: Select **'Administration' > 'Users' > 'JIRA User Server'**.
- b. Look for a link to your application. It will have a name matching this format:

```
<Type> - <HostName> - <Application ID>
```

For example:

```
FishEye / Crucible - localhost -  
92004b08-5657-3048-b5dc-f886e662ba15
```

Or:

```
Confluence - localhost -  
92004b08-5657-3048-b5dc-f886e662ba15
```

If you have multiple servers of the same type running on the same host, you will need to match the application ID of your application with the one shown in JIRA. To find the application ID:

- Go to the following URL in your browser:

```
<baseUrl>/rest/applinks/1.0/manifest
```

Replace `<baseUrl>` with the base URL of your application.

For example:

```
http://localhost:8060/rest/applinks/1.0/manifest
```

- The application links manifest will appear. Check the application ID in the `<id>` element.
- c. In JIRA, click **'Delete'** next to the application that you want to remove.
6. Add the application link in JIRA again, so that you now have a two-way trusted link between JIRA and your application:
- Click **'Add Application Link'**. Step 1 of the link wizard will appear.
 - Enter the **server URL** of the application that you want to link to (the 'remote application').
 - Click the **'Next'** button.
 - Enter the following information:
 - **'Create a link back to this server'** – Tick this check box to add a two-way link between the two applications.
 - **'Username'** and **'Password'** – Enter the credentials for a username that has administrator access to the remote application.
Note: These credentials are only used to authenticate you to the remote application, so that Application Links can make the changes required for the new link. The credentials are not saved.
 - **'Reciprocal Link URL'** – The URL you give here will override the base URL specified in your remote application's administration console, for the purposes of the application links connection. Application Links will use this URL to access the remote application.
 - Click the **'Next'** button.
 - Enter the information required to configure authentication for your application link:
 - **'The servers have the same set of users'** – Tick this check box, because the users are

the same in both applications.

- **'These servers fully trust each other'** – Tick this check box, because you trust the code in both applications and are sure both applications will maintain the security of their private keys.

For more information about configuring authentication, see [Configuring Authentication for an Application Link](#).

- g. Click the **'Create'** button to create the application link.
7. Configure a new connection for user management in JIRA:
 - a. Go to the JIRA administration screen for configuring the applications that have been set up to use JIRA for user management:
 - In JIRA 4.3: Click **'Other Applications'** in the **'Users, Groups & Roles'** section of the JIRA administration screen.
 - In JIRA 4.4: Select **'Administration' > 'Users' > 'JIRA User Server'**.
 - b. **Add** an application.
 - c. Enter the **application name** and **password** that your application will use when accessing JIRA.
 - d. Enter the **IP address** or addresses of your application. Valid values are:
 - A full IP address, e.g. 192.168.10.12.
 - A wildcard IP range, using CIDR notation, e.g. 192.168.10.1/16. For more information, see the introduction to [CIDR notation on Wikipedia](#) and [RFC 4632](#).
 - **Save** the new application.
8. Set up the JIRA user directory in the application.
 - For Confluence:
 - a. Go to the **Confluence Administration Console**.
 - b. Click **'User Directories'** in the left-hand panel.
 - c. **Add** a directory and select type **'Atlassian JIRA'**.
 - d. Enter the following information:
 - **Name** – Enter the name of your JIRA server.
 - **Server URL** – Enter web address of your JIRA server. Examples:


```
http://www.example.com:8080/jira/
http://jira.example.com
```
 - **Application name** and **Application password** – Enter the values that you defined for Confluence in the settings on JIRA.
 - e. Save the directory settings.
 - f. Define the **directory order** by clicking the blue up- and down-arrows next to each directory on the **'User Directories'** screen.

For details see [Connecting to Crowd or JIRA for User Management](#).
 - For FishEye/Crucible:
 - a. Click **Authentication** (under 'Security Settings').
 - b. Click **Setup JIRA/Crowd authentication**. Note, if LDAP authentication has already been set up, you will need to remove that before connecting to JIRA for user management.
 - c. Make the following settings:

Authenticate against	Select a JIRA instance
Application name and password	Enter the values that you defined for your application in the settings on JIRA.

JIRA URL	The web address of your JIRA server. Examples: <div><code>http://www.example.com:8080/jira/ http://jira.example.com</code></div>
Auto-add	Select Create a FishEye user on successful login so that your JIRA users will be automatically added as a FishEye user when they first log in.
Periodically synchronise users with JIRA	Select Yes to ensure that JIRA will synchronize all changes in the user information on a regular basis. Change the value for Synchronise Period if required.
When Synchronisation Happens	Select an option depending on whether you want to allow changes to user attributes from within FishEye.
Single Sign On	Select Disabled . SSO is not available when using JIRA for user management and if enabled will make the integration fail.

- d. Click **Next** and select at least one user group to be synchronised from JIRA. If necessary, you could create a new group in JIRA, such as 'fisheye-users', and select this group here.
- e. Click **Save**.
- For Stash:
 - a. Go to the Stash administration area.
 - b. Click **User Directories** in the left-hand panel.
 - c. **Add** a directory and select type **Atlassian JIRA**.
 - d. Enter the following information:
 - **Name** – Enter the name of your JIRA server.
 - **Server URL** – Enter web address of your JIRA server. Examples:

`http://www.example.com:8080/jira/
http://jira.example.com`

- **Application name** and **Application password** – Enter the values that you defined for Stash in the settings on JIRA.
 - e. Save the directory settings.
 - f. Define the directory order by clicking the blue up- and down-arrows next to each directory on the 'User Directories' screen.
- For details see [Connecting to JIRA for user management](#).

Notes

When you connect to JIRA in the setup wizard, the setup procedure will configure **Trusted Applications authentication** for your application. Please be aware of the following security implications:

- Trusted applications are a **potential security risk**. When you configure Trusted Applications authentication, you are allowing one application to access another as any user. This allows all of the built-in security measures to be bypassed. Do not configure a trusted application unless you know that all code in the application you are trusting will behave itself at all times, and you are sure that the application will maintain the security of its private key.

Starting to use Crucible

This page introduces the basics of using Crucible. By the end, you'll know how to:

- [Add a repository](#)
- [Create a project](#)
- [Create and perform reviews](#)

Assumptions

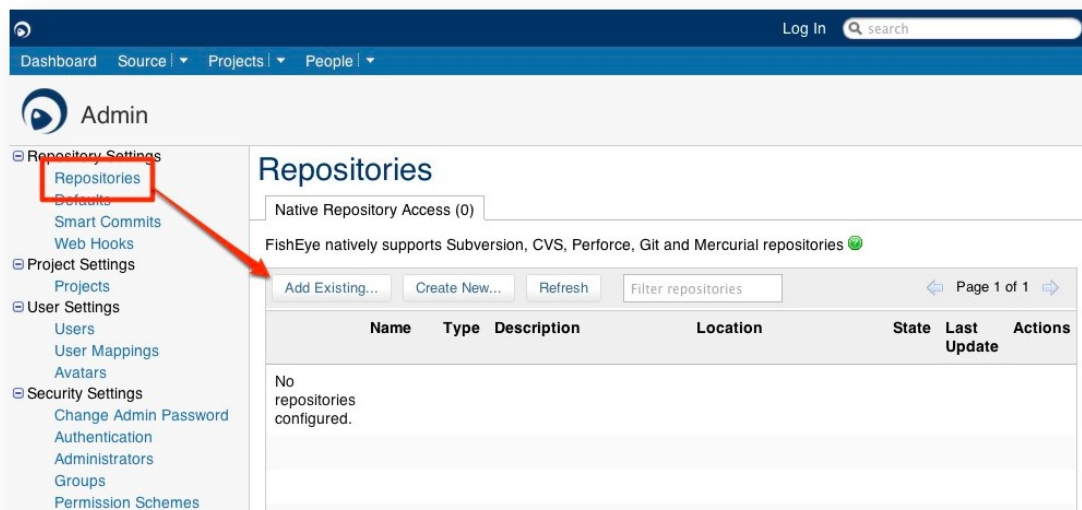
We're assuming that:

- You have installed and started the latest version of Crucible. See the details at [Installing Crucible on Windows](#) or [Installing Crucible on Linux and Mac](#).
- You are using a [supported browser](#).
- You have admin permission in Crucible.

Add a repository

First up we're going to add a repository to Crucible.

Click on **Add Existing...** in the **Repositories** listing of the Administration area.



Choose the repository type and fill in the name and description.

Add Repository - Page 1 of 3

Basic Details

Repository Type:

Name: * ?

Description: ?

In the repository configuration put the location of your repository. Fill in the authentication details if necessary.

Add Repository - Page 2 of 3

Mercurial Connection Details

Repository Location: * ?

Mercurial Authentication

Authentication Style: ?

FishEye will not add any authentication to requests. Authentication will be handled transparently by the SCM.

☐ Show advanced settings

Finally indicate whether or not you would like diff indexing should be turned on and if the repository should not be indexed right away then click **Add** to finish the process.

Add Repository - Page 3 of 3

Final Settings

Store Diff Info: ☐ ?

Enable Repository After Adding: ☒ ?

Test Connection Back Next Add Cancel

Your repository is now created in **Crucible** and the indexing should have started.

Repositories

Native Repository Access (1) Plugins (4)

Crucible natively supports Subversion, CVS, Perforce, Git and Mercurial repositories

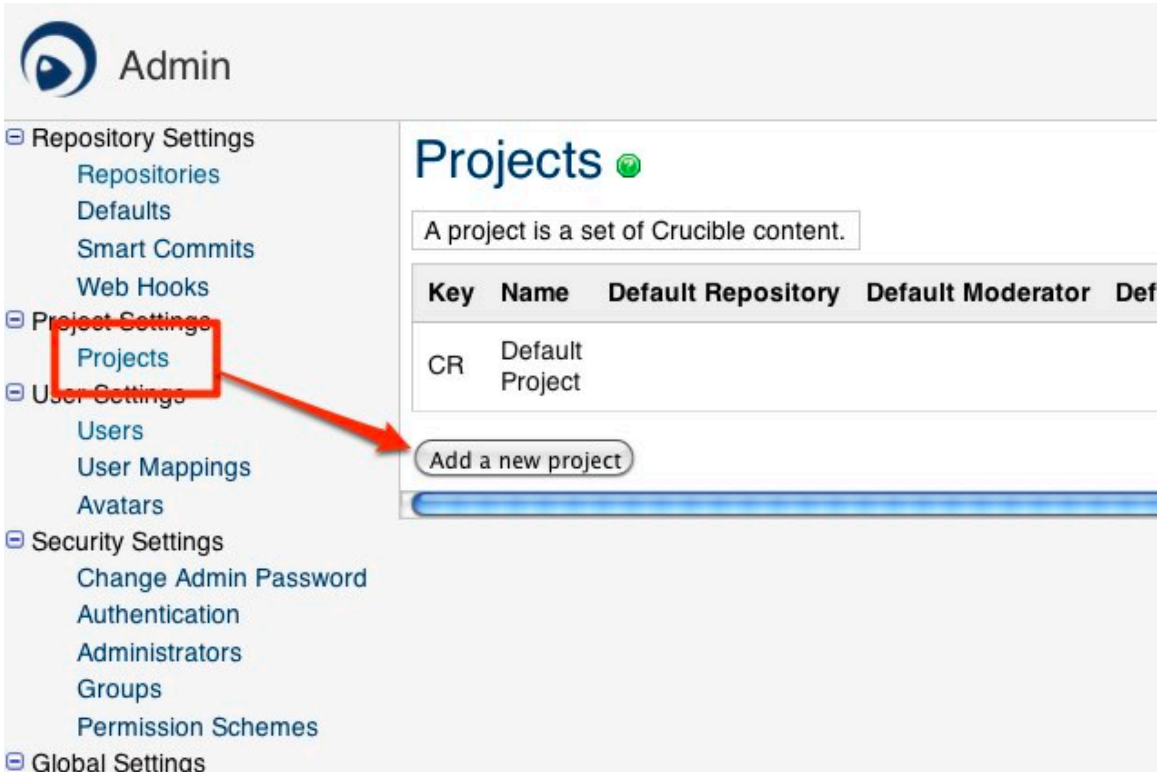
Add Existing... Create New... Refresh Filter repositories Page 1 of 1

Name	Type	Description	Location	State	Last Update	Actions
jqplot	Mercurial	JS charts library	https://bitbucket.org/cleonello/jqplot/	Running		Info Cloning repository

Create a project in Crucible

Crucible comes with a default project, with the key CR, but you will probably want to create your own projects to contain your reviews. This is achieved in a couple of steps.

Click on **Add a new project** in the **Projects** listing of the Administration area.



Admin

- Repository Settings
 - Repositories
 - Defaults
 - Smart Commits
 - Web Hooks
- Project Settings**
 - Projects**
- User Settings
 - Users
 - User Mappings
 - Avatars
- Security Settings
 - Change Admin Password
 - Authentication
 - Administrators
 - Groups
 - Permission Schemes
- Global Settings

Projects

A project is a set of Crucible content.

Key	Name	Default Repository	Default Moderator	Def
CR	Default Project			

[Add a new project](#)

Fill in the form with the default settings for the project and hit **Save**.

Edit Project

Identification

Name

Key

Content

Default Repository

☒ Store the contents of files in reviews

Permissions Scheme

Permission Scheme

Moderator

☒ Enable the Moderator role for this project

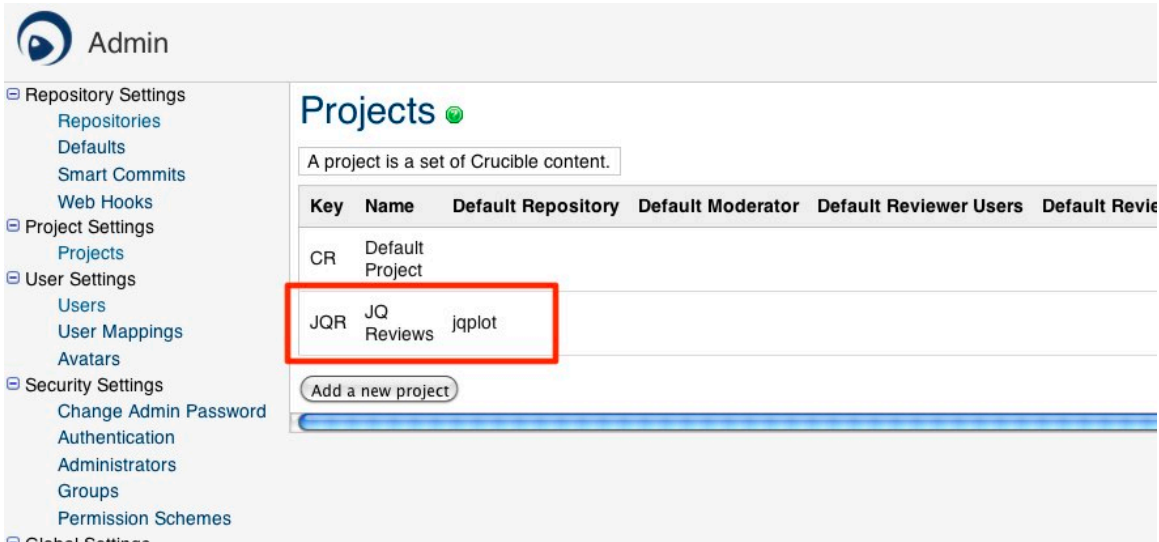
Default Moderator Start typing a user name then press enter to select.

Default Reviewers

☐ By default, allow anyone to join reviews after creation

Users Start typing a user name then press enter to select.

You'll see your new project in the **Projects** listing.




The screenshot shows the 'Admin' interface with a sidebar on the left containing categories like Repository Settings, Project Settings, User Settings, Security Settings, and Global Settings. The 'Projects' link under Project Settings is highlighted. The main content area is titled 'Projects' and includes a description: 'A project is a set of Crucible content.' Below this is a table with columns: Key, Name, Default Repository, Default Moderator, Default Reviewer Users, and Default Reviewer. The table contains one entry: 'CR' with 'Default Project' as the name. A red box highlights a new entry: 'JQR' with 'JQ Reviews' as the name and 'jqplot' as the default repository. Below the table is a button labeled 'Add a new project'.

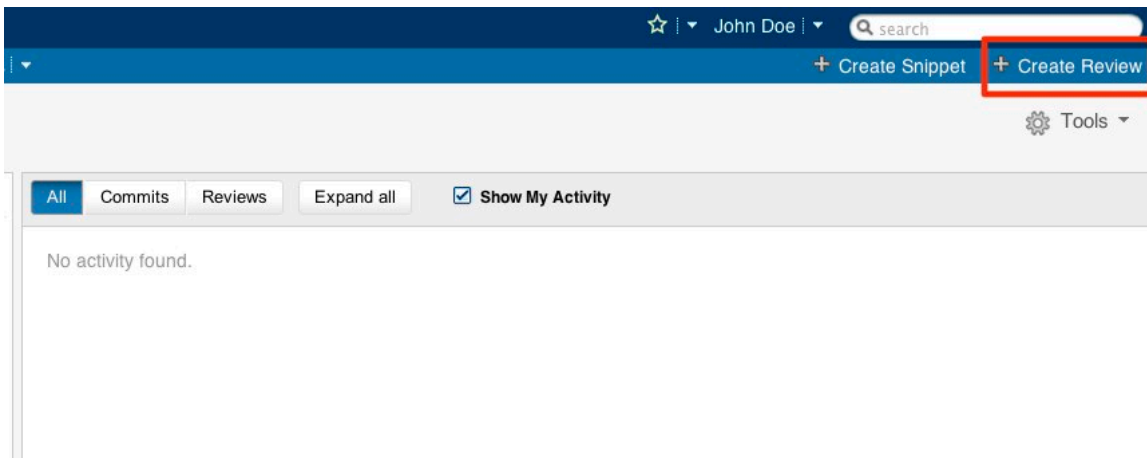
Key	Name	Default Repository	Default Moderator	Default Reviewer Users	Default Reviewer
CR	Default Project				
JQR	JQ Reviews	jqplot			

Create a review

Now that you have your own project you can create reviews in it.

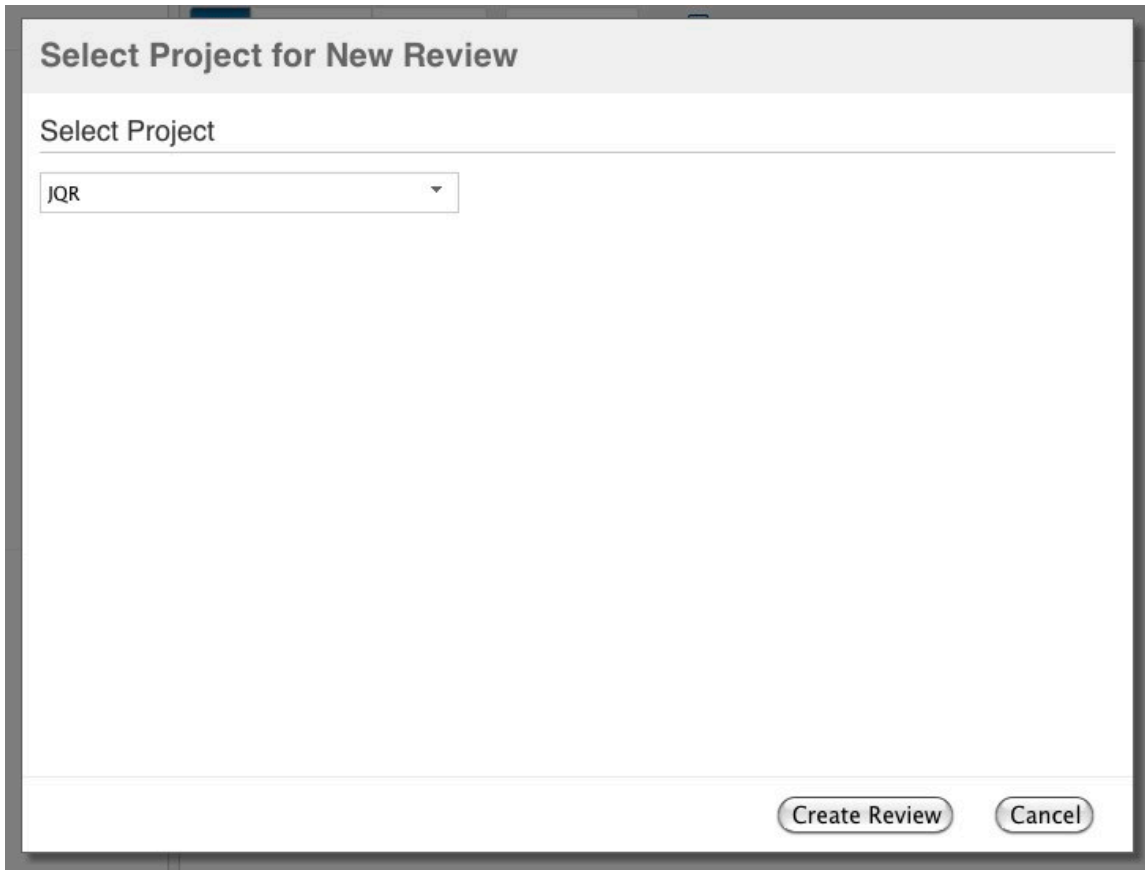
 You need to be logged in to create reviews.

From the **Dashboard** click on **Create review** to open the review creation form.



The screenshot shows the 'Dashboard' interface. At the top, there is a user profile 'John Doe' and a search bar. Below this, there are two buttons: '+ Create Snippet' and '+ Create Review'. The '+ Create Review' button is highlighted with a red box. Below the buttons, there is a 'Tools' dropdown menu. At the bottom, there is a section for 'Activity' with tabs for 'All', 'Commits', and 'Reviews'. The 'All' tab is selected, and it shows 'No activity found.' with a checkbox for 'Show My Activity'.

Choose the project in which you want to create the review.



The screenshot shows a dialog box titled "Select Project for New Review". Inside, there is a section labeled "Select Project" with a dropdown menu currently showing "JQR". At the bottom right of the dialog, there are two buttons: "Create Review" and "Cancel".

In the next screen click on **Browse Changesets** to see the list of changesets available to create the review.

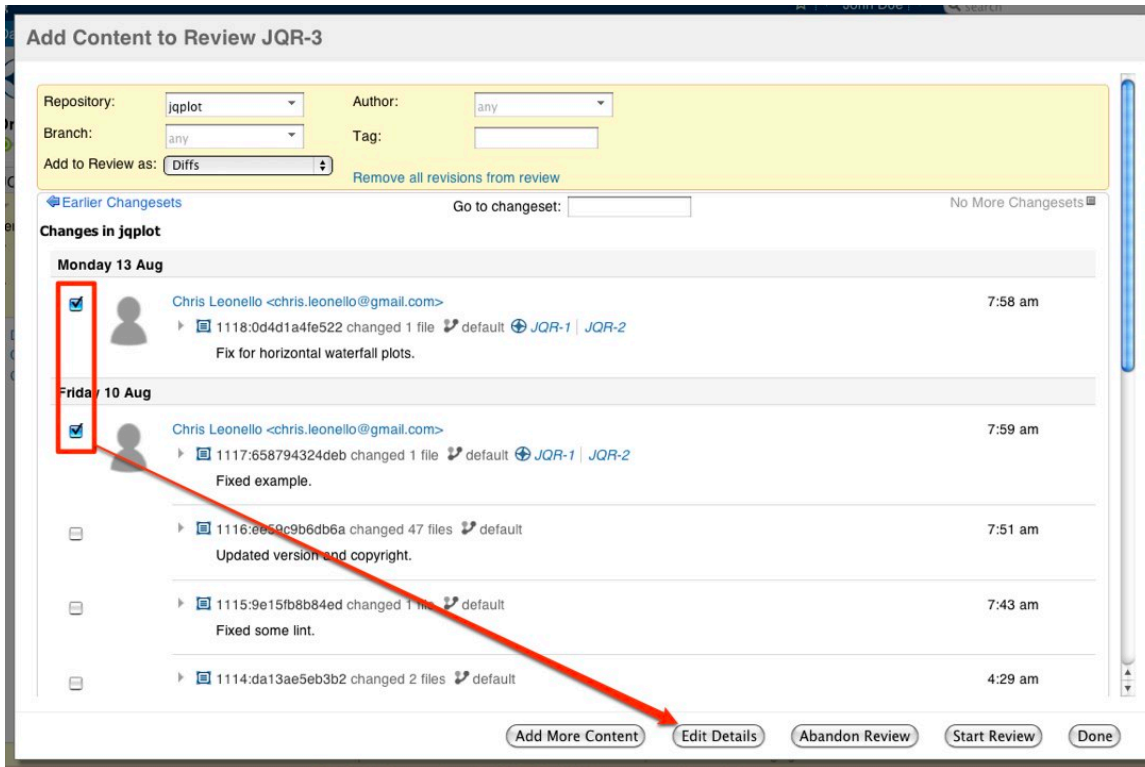


The screenshot shows a dialog box titled "Add Content to Review JQR-1". It contains five options, each with an icon and a description:

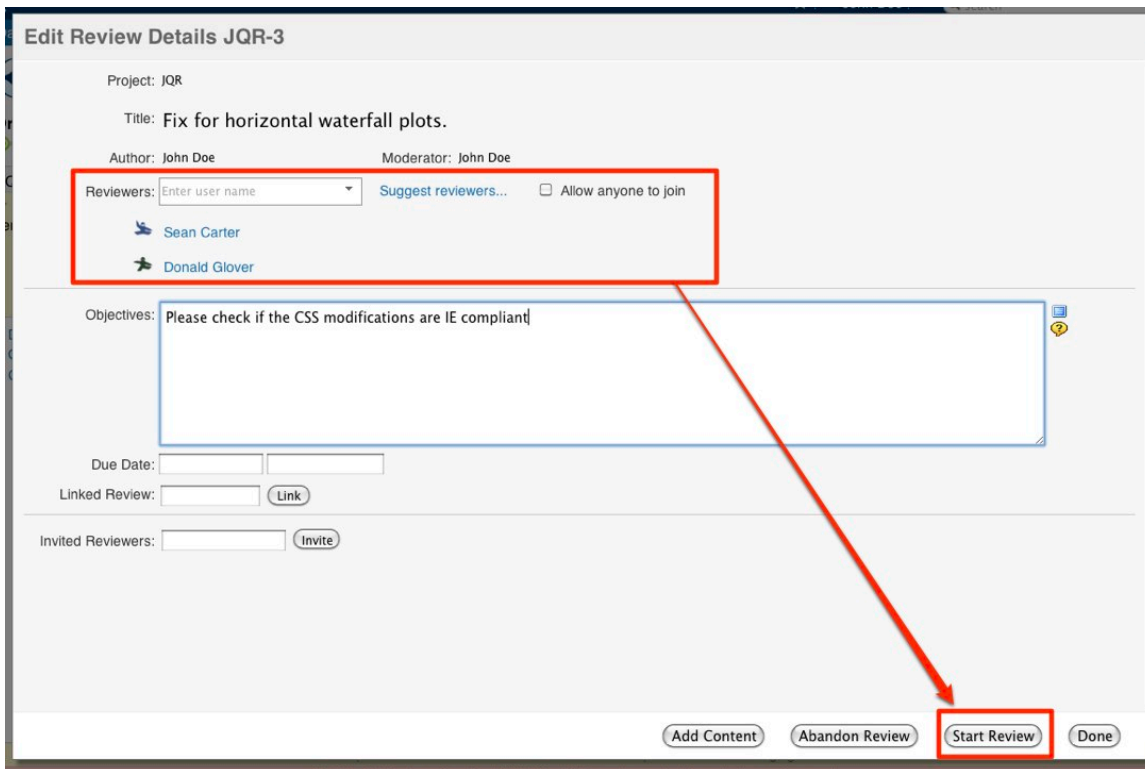
- Browse Changesets** (Icon: Document with lines): Browse recent changes for revisions to add to this review. This option is highlighted with a red rectangular box.
- Explore Repositories** (Icon: Folder): Use a directory tree to find files.
- Search for Files** (Icon: Magnifying glass): Use Crucible's search to find revisions to add to this review.
- Pre-commit** (Icon: Document with a plus sign): Upload a patch file to be reviewed - diffs of files will be extracted.
- Attachments** (Icon: Paperclip): Upload a file to be reviewed.

At the bottom right of the dialog, there are four buttons: "Edit Details", "Abandon Review", "Start Review", and "Done".

Select the changesets that you would like to be reviewed and then click on **Edit Details** to add reviewers.



Once you have chosen your reviewers and updated the review information you can click on **Start Review** to begin the review process.



The review is now created and the reviewers will have been notified that a review is pending.

Dashboard Projects | People | Reviews

JQ Reviews > JQR-3

Fix for horizontal waterfall plots.

Under Review for a few seconds

Author & Moderator Reviewers

JQR-3

Details Objectives General Comments

jqplot (default)

examples

blockPlot.php

src/plugins

jqplot.barRenderer.js

Details

Participant	Role	Time Spent	Comments	Latest Comment
John Doe	Author & Moderator	0m		
Donald Glover	Reviewer - 0% complete			
Sean Carter	Reviewer - 0% complete			
Total		0m	0	

Files: 2

Objectives [Edit](#)

Please check if the CSS modifications are IE compliant

General Comments

There are no general comments on this review. [Add a general comment.](#)

In order to close a review where you are the moderator you need to click on **Summarize** in the top right and then close the review from the modal window.

Author & Moderator Reviewers

Summarize Review

Summarize the review outcomes (optional)

There's a bug with FF1 but an issue has been created for it.

Continue Without Closing Close Review

Using Crucible

This page is an index of the content in the Crucible User's Guide. Click on a link below to see the desired page.

- Using the Crucible screens
 - Using the dashboard
 - Browsing all reviews
 - Browsing source files
 - Crucible Icons

- [Searching Crucible](#)
- [Viewing people's statistics in Crucible](#)
- [Browsing Projects](#)
 - [Viewing Project Statistics](#)
- [Changing your User Profile](#)
- [Viewing Your Favourites](#)
 - [Using favourites](#)
- [Using Keyboard Shortcuts in Crucible](#)
- [The Crucible workflow](#)
 - [Defining your workflow](#)
 - [Roles and Status Classifications](#)
- [Creating a review](#)
 - [Creating a review from FishEye](#)
 - [Creating a review from JIRA](#)
 - [Creating a review from a URL](#)
 - [Creating a Snippet Review](#)
 - [Creating reviews from the command line](#)
- [Adding content to the review](#)
 - [Iterative reviews](#)
 - [Creating patch files for pre-commit reviews](#)
- [Choosing reviewers](#)
- [Performing the review](#)
 - [Starting a review](#)
 - [Adding comments](#)
 - [Changeset discussions](#)
 - [Flagging defects](#)
 - [Creating JIRA issues from the review](#)
 - [Viewing reports](#)
 - [Review Coverage report](#)
 - [Completing your review](#)
 - [Sending a review's comments via Email](#)
 - [Using JIRA integration in Crucible reviews](#)
 - [Using the Review History Dialog](#)
 - [Using RSS feeds in Crucible](#)
 - [Using Wiki Markup in Crucible](#)
 - [Tracking Crucible Review Metrics](#)
 - [Using Progress Tracking](#)
 - [Using Time Tracking](#)
- [Summarising and closing the review](#)
 - [Transitioning JIRA issues](#)
- [Managing your reviews](#)
 - [Using Review Reminders](#)
 - [Moving a Review to Another Project](#)
 - [Deleting a review](#)

Using the Crucible screens

This page gives an overview of the Crucible interface and the actions that can be carried out.

On this page:

- [Dashboard](#)
- [Header](#)
- [Left navigation sidebar](#)

- [Related pages](#)

Dashboard

When you first log in to Crucible the dashboard is displayed. The dashboard displays reviews and system activity related to you. See [Using the dashboard](#).

Screenshot: The Crucible dashboard (with FishEye), showing recent activity

Header


The table below explains the tabs in the Crucible header:

Tab	Function	Appears
Repositories	Displays contents of connected source repositories. The dropdown menu has links to recently visited repositories	Only when FishEye is used with Crucible. Only when FishEye is used with Crucible for logged-in users.
Projects	Displays reviews and content from specific projects. The dropdown menu has links to recently visited projects	All screens All screens for logged-in users.
People	Displays metrics on the users of the Crucible instance. The dropdown menu has links to recently visited user pages	All screens. All screens for logged-in users.

Reviews	<p>Allows you to search and report on reviews.</p> <p>The dropdown menu has links to recently visited reviews, as well as links to the Crucible Inbox and Outbox</p>	<p>All screens</p> <p>All screens for logged-in users..</p>
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Left navigation sidebar

The navigation bar at the left of the screen applies specific filters to what is shown in the centre pane. See [Using the dashboard](#) for more information.

The left navigation sidebar can be hidden or displayed by clicking the blue 'information' icon  at the top left of the sidebar.

Related pages

[Browsing source files](#)

[Browsing Projects](#)

[Viewing People's Statistics in Crucible](#)


[Viewing reports](#)

[Searching Crucible](#)

[Using RSS feeds in Crucible](#)

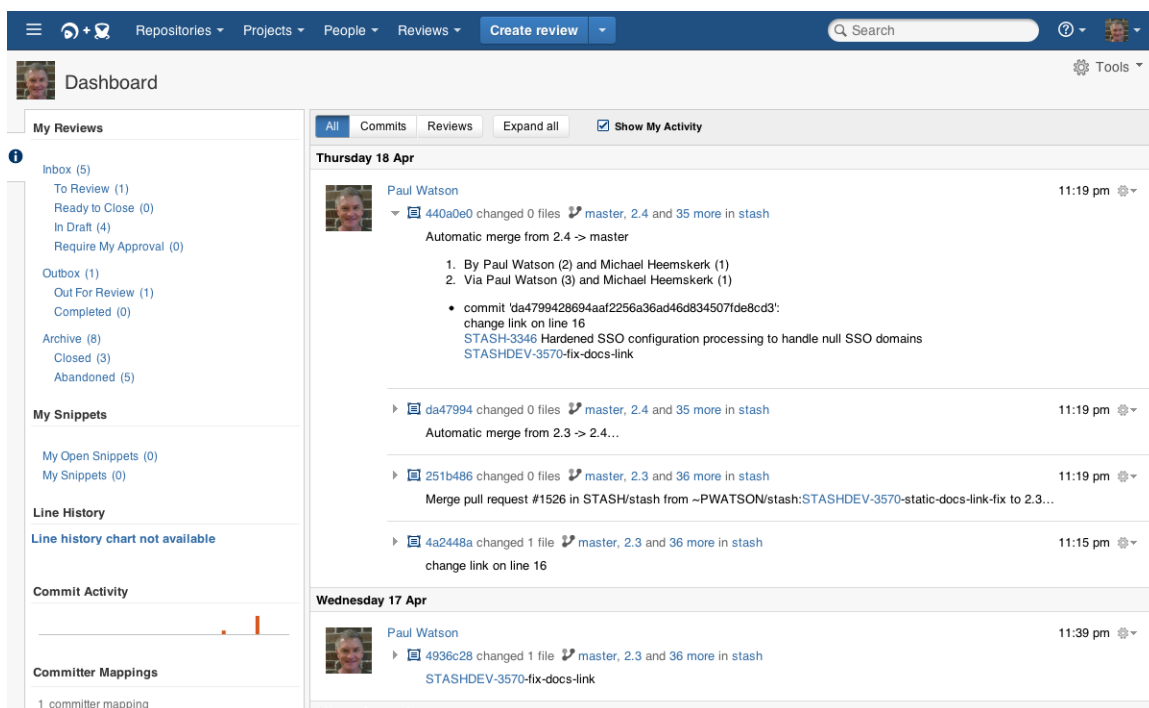
[Changing your User Profile](#)

Using the dashboard

The dashboard is the first screen that you see when you log into FishEye/Crucible. It can be accessed by clicking the FishEye/Crucible icon  in the [header](#).

The dashboard sidebar displays your reviews, and activity is displayed in the main pane.

Screenshot: Viewing the dashboard



The screenshot shows the Crucible dashboard interface. The top navigation bar includes links for Repositories, Projects, People, Reviews, and a 'Create review' button. A search bar is also present. The left sidebar, titled 'Dashboard', contains a 'My Reviews' section with a list of review statuses: Inbox (5), To Review (1), Ready to Close (0), In Draft (4), Require My Approval (0), Outbox (1), Out For Review (1), Completed (0), Archive (8), Closed (3), and Abandoned (5). Below this are sections for 'My Snippets', 'Line History', 'Commit Activity', and 'Committer Mappings'. The main content area displays a list of recent commits and reviews, grouped by date. The 'Thursday 18 Apr' section shows a commit by Paul Watson (440a0e0) with a detailed description of an automatic merge and a commit message. The 'Wednesday 17 Apr' section shows another commit by Paul Watson (4936c28) with a commit message. The interface is clean and professional, with a blue header and a light gray sidebar.

Using the 'My Reviews' sidebar

The 'My Reviews' sidebar contains information about reviews/snippets that you are involved with, e.g. how many reviews require your approval. Read more about the sidebar in [Browsing all reviews](#).

- Click on any of the links in the sidebar to navigate to that information in the 'Reviews' tab of the Dashboard.
- Hover your mouse over the sidebar and click the collapse icon (▲) to hide any of the sections. Click the expand icon (▼) to expand any collapsed sections.
- Click the 'i' icon (i) to hide/show the sidebar.

Inbox	<p>Click Inbox to show all reviews in these states:</p> <p>To Review — Click to show all reviews where you are a reviewer and haven't yet completed your review work.</p> <p>Ready to Close — Click to show all reviews where you are a moderator and haven't yet summarised and closed the review.</p> <p>In Draft — Click to show all reviews that you have created but have not yet been moved to the 'Approval' state or the 'Require Approval' state.</p> <p>Require My Approval — Click to show all reviews where you are a moderator and need to approve the review.</p>
Outbox	<p>Click Outbox to show all reviews in these states:</p> <p>Out for Review — Click to show all reviews that you are a participant of, that have review work that is yet to be completed by other reviewers.</p> <p>Completed — Click to show all reviews that you are a participant of, and have been completed.</p>
Archive	<p>Click Archive to show all reviews in these states:</p> <p>Closed — Click to show all reviews that you are a participant of, that have been summarised and closed.</p> <p>Abandoned — Click to show all reviews that you are a participant of, that have been abandoned. You may wish to delete these reviews.</p>
My Open Snippets	Click to show all open snippets created by you.
My Snippets	Click to show all snippets created by you.

Using the Activity Stream

The dashboard has an activity stream that displays the following information:

- **reviews activity** — This includes the addition of review comments, opening and closing reviews, etc.
- **source activity** — This includes files being committed to a repository.

Your activity stream will only display information from projects, reviews, people, repositories, etc, that you have selected as favourites as well as your own activity. For more information on favourites, see [Using favourites](#).

The following instructions describe how to view the activity stream and filter it to display specific information.

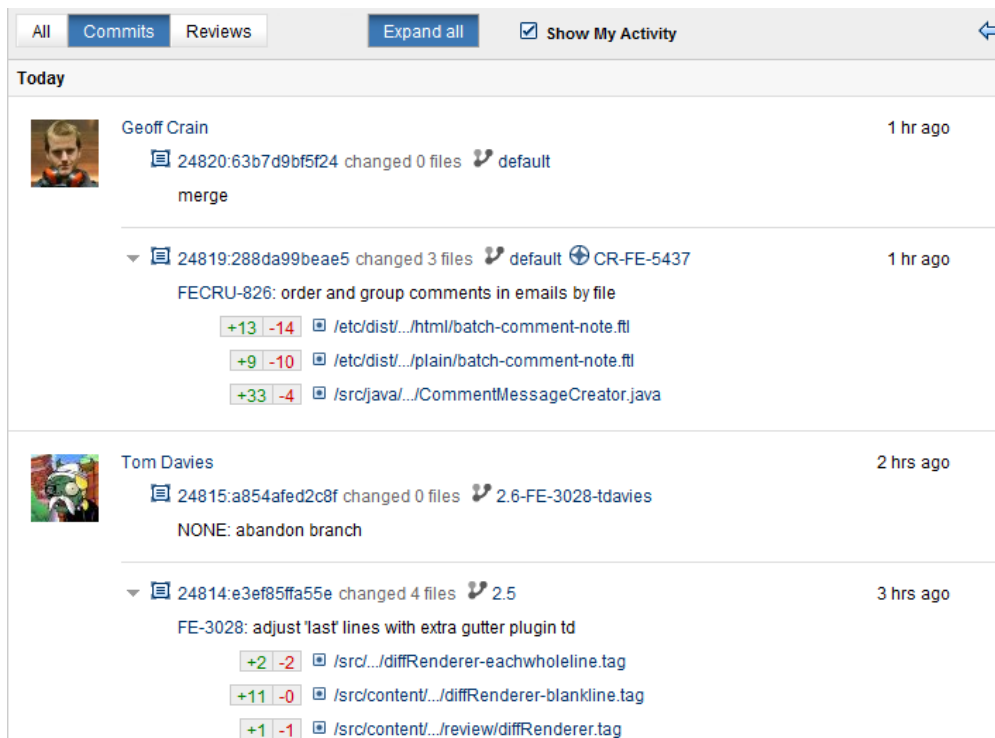
- **Commits** tab — See [Browsing Source Activity only](#) below.
- **Reviews** tab — See [Browsing Reviews Activity only](#) below.
- **Show My Activity** checkbox — Untick this checkbox to filter out your activity from the activity stream displayed. This toggle can be used in any of the tabs for the activity stream.

Browsing Source Activity only

Source activity includes files commits to repositories that you have selected as [favourites](#).

Click the **Commits** tab to filter the activity stream to display only source activity (see screenshot below).

Browsing Source Activity on the dashboard



Browsing Reviews Activity only

Reviews activity includes updates to reviews in all projects that you have selected as [favourites](#). See [Browsing all reviews](#) for more information about browsing reviews.

Click the **Reviews** tab to filter the activity stream to display only reviews activity (see screenshot below).

Browsing Reviews Activity on the dashboard

The screenshot shows the 'Reviews' tab in the Crucible interface. At the top, there are tabs for 'All', 'Commits', and 'Reviews', with 'Reviews' being the active tab. To the right of the tabs are buttons for 'Expand all' and 'Show My Activity'. Below the tabs, the section is titled 'Today'. The activity stream lists several items:

- Joe** (1 min ago): Re: CR-FE-5360 replied to **Seb Ruiz** fixed.
- Adam Ahmed** (1 hr ago): Re: CR-FE-5416 replied to **Adam Ahmed** hmmm - good question.
- Seb Ruiz** (1 hr ago): Re: CR-FE-5385 replied to **Seb Ruiz** I fixed the one actual breakage
- Adam Ahmed** (1 hr ago): Re: CR-FE-5416 commented on review. The bug was that edges would trace back to the focused changeset, but would continue the current path, even if we already found a known unrelated changeset. Also, my path wasn't storing the traversed path correctly, so sometimes the wrong edge would be marked as related/unrelated, and duplicate changesets would show up in the path.
- Joe** (2 hrs ago): Re: CR-FE-5416 replied to **Joe** Yeah I could do that. How does that work if this is going into a plugin?

Watching an Activity Stream

You can "watch" an activity stream in FishEye/Crucible. Watching the activity stream allows you to receive emails when updates occur in the activity stream. You can view all of your watches and configure the frequency of your watch emails in your user profile. See [Changing your User Profile](#) for more information.

Note, the option to add a watch will only be available if the administrator has [enabled watches](#) for the repository.

To watch an activity stream:

1. Navigate to the activity stream that you want to watch.
 2. Choose **Tools > Watch**. The page will reload and a watch will be set up for the activity stream (the watch icon will be coloured, not grey).
 - If you want to remove the watch, navigate to the activity stream and choose **Tools > Watch**. The watch will be removed (the watch icon will be coloured, not grey).
- You can also remove watches via your user profile.

Related Topics

[Browsing all reviews](#)

[Using favourites](#)

[Changing your User Profile](#)

Browsing all reviews

The instructions on this page describe how to browse all reviews on the 'Reviews' screen, by people or for projects that you have selected as [favourites](#). This includes reviews that you are involved with. You can also [generate reports](#) on review blockers for all people.

The 'Reviews' tab is essentially a shortcut to viewing your reviews (or a custom filtered list, if you have set up a filter). You can also filter reviews by status, e.g. Open, Closed.

To browse all reviews:

1. Choose **Reviews > Review dashboard**. The 'Reviews' page will display all open reviews, unless you have previously used a [custom filter](#). See the screenshot below.

2. Browse your reviews, by clicking the links under 'My Reviews' and 'My Snippets' in the sidebar.
3. Browse reviews for all people by clicking the links under the 'Everyone's Reviews' and 'Everyone's Snippets' sections in the sidebar, as follows:

All Open Reviews	Reviews that have not been summarised and closed yet.
All Closed Reviews	Reviews that have been summarised and closed.
All Reviews	All reviews, including open reviews, closed reviews and draft reviews.
All Open Snippets	All open snippets.
All Snippets	All snippets, i.e. open and closed snippets.

Screenshot: Browsing all open reviews

The screenshot shows the 'Review Dashboard' in Crucible. The left sidebar contains 'My Reviews' and 'My Snippets' sections. The main area displays a table of 'All Open Reviews' with columns: State, Review, Owner, Name, Files, Comments, Age, Due, and Reviewers. The table lists 11 reviews, including details like review ID (e.g., CR-FE-7365), owner (e.g., FECRU-3474), name (e.g., 'Initialise repo markers if out of sync with states'), files (e.g., 1), comments (e.g., 0), age (e.g., 96 minutes), due date (e.g., in 46 hours), and reviewers (e.g., 2).

Related Topics

[Using the dashboard](#)

[Viewing reports](#)

Browsing source files

When FishEye is installed with Crucible, the **Repositories** tab is available in the [header](#).

To browse source files:

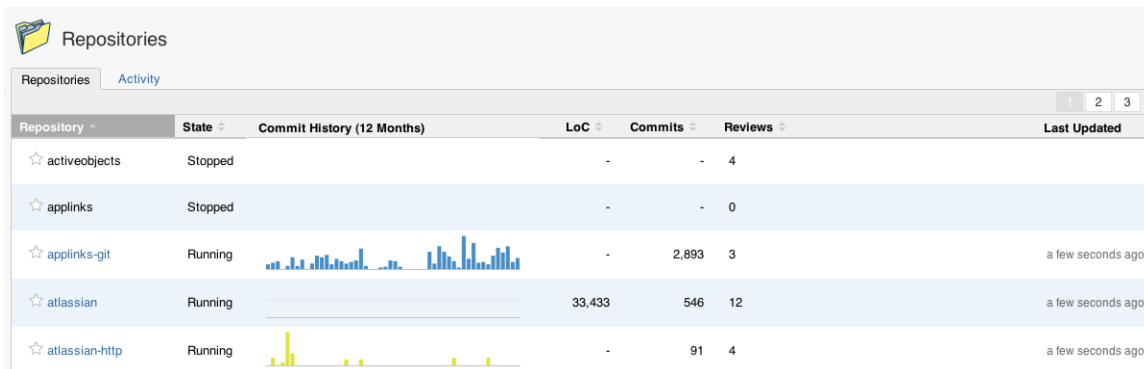
1. Choose **Repositories** > **All repositories** from the header. The 'Repositories' view will be displayed, showing summary information if you have multiple repositories set up. See the '[Viewing all repositories](#)' screenshot below.
2. Click the name for a repository to view its contents. See the '[Viewing a repository](#)' screenshot below.
3. Browse the repository for the desired source file using the directory tree in the left menu. See the '[Viewing a file](#)' screenshot below.
4. You can view various information about the file:


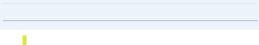

Tab	Description
-----	-------------

Activity	Shows recent activity for the item. There are a number of sub-options here: All — The default view, showing commits, reviews and JIRA issues. Commits — Shows commits in the activity stream. Reviews — Shows review activity in the activity stream. Filter commits — Applies constraints to the current activity stream. Expand all — Shows more detail for all changesets. Scroll to changeset — Displays the changeset ID specified
Revisions	When viewing a file, shows the latest revisions of the file.
Users	Shows the commit history of the different users that have committed changes on the item.
Reports	Shows activity charts for the item. Various chart options can be selected in the left navigation bar.
Source	Shows the contents of the file.

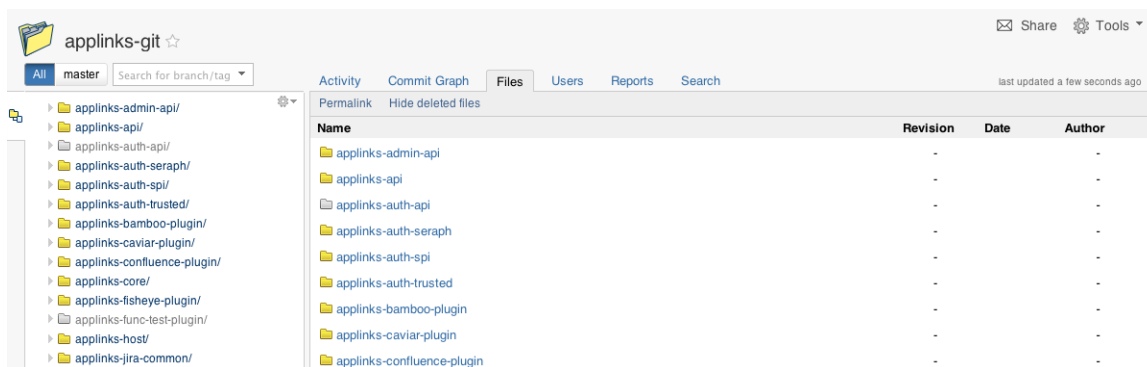
 To download files, click the **Source** tab for the desired file, then right-click **Raw**.

Screenshot: Viewing all repositories



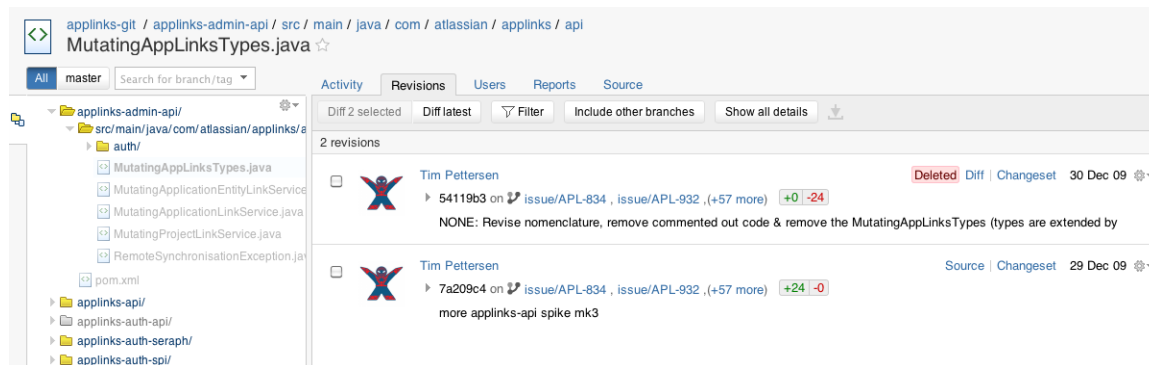
Repository	State	Commit History (12 Months)	LoC	Commits	Reviews	Last Updated
☆ activeobjects	Stopped		-	-	4	
☆ applinks	Stopped		-	-	0	
☆ applinks-git	Running		-	2,893	3	a few seconds ago
☆ atlassian	Running		33,433	546	12	a few seconds ago
☆ atlassian-http	Running		-	91	4	a few seconds ago

Screenshot: Viewing a repository



Name	Revision	Date	Author
applinks-admin-api	-	-	-
applinks-api	-	-	-
applinks-auth-api	-	-	-
applinks-auth-seraph	-	-	-
applinks-auth-spi	-	-	-
applinks-auth-trusted	-	-	-
applinks-bamboo-plugin	-	-	-
applinks-caviar-plugin	-	-	-
applinks-confluence-plugin	-	-	-

Screenshot: Viewing a file



Crucible Icons

This page contains a list of Crucible icons and an explanation what each one represents in the user interface.

Icon	Description
	View review-level comments
	Go to the previous comment
	Go to the next comment
	Add a comment
	Go to the previous file in this review
	Go to the next file in this review
	Expand all files
	Collapse all files
	A file included in this review
	A directory included in this review

Searching Crucible

Crucible has a powerful search engine that allows you to find reviews. There are two methods for searching in Crucible:

- **Quick Search** — The Quick Search allows you search all Crucible projects by entering a single search string. This search is the default search and will suggest "quick nav" results (header search box only). Results are weighted by most recent edit date.
- **Filtering Reviews** — An alternative method for searching for reviews is to display all reviews and apply a custom filter to the list. This is generally slower than searching, but allows you to specify filter criteria against a range of fields.
- **Comment Search** — If you want to find specific [review comments](#), Crucible provides a powerful comment search.

On this page:

- [Using the Quick Search](#)
- [Filtering reviews](#)
- [Searching for Review Comments](#)
- [Related pages](#)

Using the Quick Search

Before you begin:

- The Quick Search will also return changesets and files, if you are using **FishEye** with Crucible. For information on searching FishEye, see [Searching FishEye](#) in the FishEye documentation.

To search Crucible using the Quick Search:

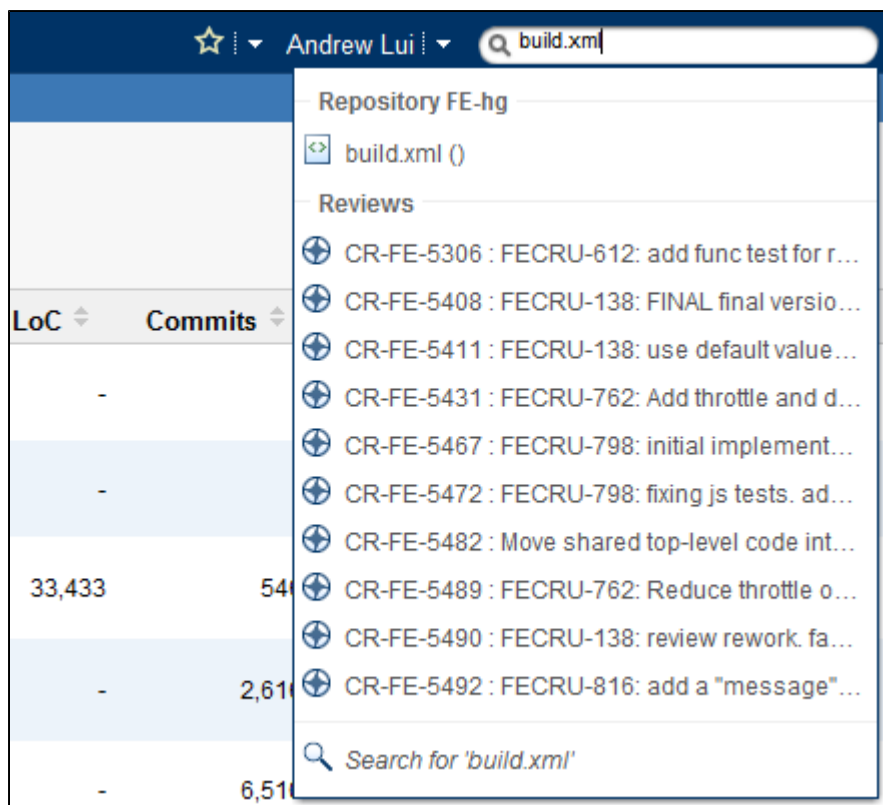
1. Enter your search terms in the search box in the Crucible header. Crucible offers a number of criteria that you can use to refine your results, see [Refining your Quick Search Criteria](#) below.
2. Results will appear in a dropdown, as you type. Results will attempt to be matched against the review name, project and user.
 - If you want to use a quick search result, use the up- and down-arrows on your keyboard and press enter or use your mouse to select the item.
 - If the quick search results don't have what you are looking for, press enter to run a search. Ensure that no items in the dropdown are selected when you press enter.
3. The Quick Search results page will be displayed. You can filter your results further, as described in [Filtering Quick Search Results](#) below.

Results are sorted by relevance and boosted if they were edited recently. A maximum of 10 results are displayed per page.

 - If you have **integrated your Crucible instance with a JIRA instance**, you can display a summary of any JIRA issues referenced in your search results by hovering over the issue key. For more details, see [JIRA integration in Crucible](#).
4. If you want to run another search, enter your new criteria in the main search box or in the search box in the header.

Note, only the search box in the header provides "quick nav" results.

Screenshot: Quick Search displaying "quick nav" matches



Refining your Quick Search Criteria


You can refine your search criteria before executing the search:

Search Tool	Description	Example
Field Handles	<p>Use a field handle in your criteria to restrict your search to a particular field. Note, you cannot have multiple field handles in a query.</p> <ul style="list-style-type: none"> • <code>detail</code> — Search against title, objective, key, linked reviews and linked issues. • <code>reviewcomment</code> — Search against review comments. 	
Searching for Discrete Strings	<p>Enter a specific string within quotation marks and Crucible will match against the exact string. Note, this search is not case-sensitive.</p>	<p>Enter "CR-2818" and Crucible will only return results that match that exact string, i.e. it will not return a result with CR-FE-2818 or CR-28189.</p>

Filtering Quick Search Results

You can filter Quick Search results using the controls in the left panel of the Quick Search page:

Filter	Description
--------	-------------

All repositories	Type a repository name into the field, or click the down arrow to see a list of repositories.
Source type	Click Files and directories , Commit messages , Diffs , Content or Committers to restrict the search results to just that source type.
All Projects	<p>Select or enter the name of the project that you want to restrict your results to. For example, if you enter 'CR' then the search results page will refresh to display only reviews in the 'CR' project.</p> <p> <i>If you are using Fisheye with Crucible, there will be a repositories dropdown in the 'Source' section. Selecting a FishEye repository in this dropdown will not filter the Crucible search results. It is only used to filter files and changesets returned in the search results. See Searching FishEye.</i></p>
Reviews	Click this link to restrict your results to reviews that have a title, objective, key, linked reviews or linked issues that match the search criteria.
Comments	Click this link to restrict your results to reviews that have comments that match the search criteria.

Filtering reviews

Crucible allows you to view all the reviews/snippets that you are involved with, as well as everybody's reviews/snippets. You can filter these lists to find reviews.

To filter a list of reviews:

1. Navigate to the **'Reviews'** tab.
2. Click the list of reviews that you want to start with, in the reviews sidebar of the 'Review Dashboard', e.g. 'All Open Reviews'.
3. Click the **'Custom Filter'** in the reviews sidebar.
4. Update the filters with your search criteria (see table below) and click **'Apply Filter'** to filter the reviews.

Filter	Description
Title	Find reviews by searching for words within the title.
Project	Find reviews under a particular project.
Author	Find reviews moderated by a particular authors .
Moderator	Find reviews moderated by a particular moderator s.
Creator	Find reviews created by a particular creator .
Reviewer	Find reviews that are reviewed by a particular reviewer . This will default to the user logged in.

Reviewer Status	This is reliant on the above filter and is used to show reviews that have either been completed by the reviewer, not completed or all reviews.
Match Roles	To use all the above filters, choose ' all '. To use any of the filters, choose ' any '.
Review state checkboxes	Check any of the review state checkboxes (e.g. 'Draft', 'Pending Approval') to filter for reviews in those states.

Searching for Review Comments

To search for review comments:

1. Navigate to the '**Reviews**' tab.
2. Enter your search criteria in the '**Comment Search**' section at the bottom of the reviews sidebar.
3. Click '**Search Comments**'.
4. The 'Comment Search' page will display your results. You can refine your search using the search criteria on the page:

Project	Find comments on reviews under a particular project.
Comment content	Find comments that contains the specified text.
Review Permalid	Find comments made on the specified review.
After	Find comments made after after a particular date.
Before	Find comments made after before a particular date.
Comment Author	Find comments made by a particular user.
Search Type	You can:

- Tick the '**Defects**' check-box to find comments that are flagged as [Defects](#).
- Tick the '**Comments**' check-box to find comments that are not flagged as [Defects](#).
- Tick neither check-box (or both of them) to find all . ||

Review State	Find comments on reviews that are in a particular state. See <i>Review State Filter</i> (above).
Ranking	Find defects have been given a particular ranking (e.g. 'Major', 'Minor').
Requires Re-Review	Find defects that have been marked as requiring re-review (or not).
Classification	Find defects that have been given a particular classification (e.g. 'Missing', 'Ambiguous').

Search Criteria

Search Criteria

Project: Any Project

Comment content:

Review Permalid:

After:

Before:

Comment Author: any

Search Type:

☐ Defects ☐ Comments

Review State:

☐ Draft ☐ Pending Approval ☐ Under Review

☐ Summarize ☐ Closed ☐ Abandoned

☐ Rejected ☐ Needs Fixing

Metrics:

Ranking: Select Ranking

Requires Re-Review: Select Requires Re-Review

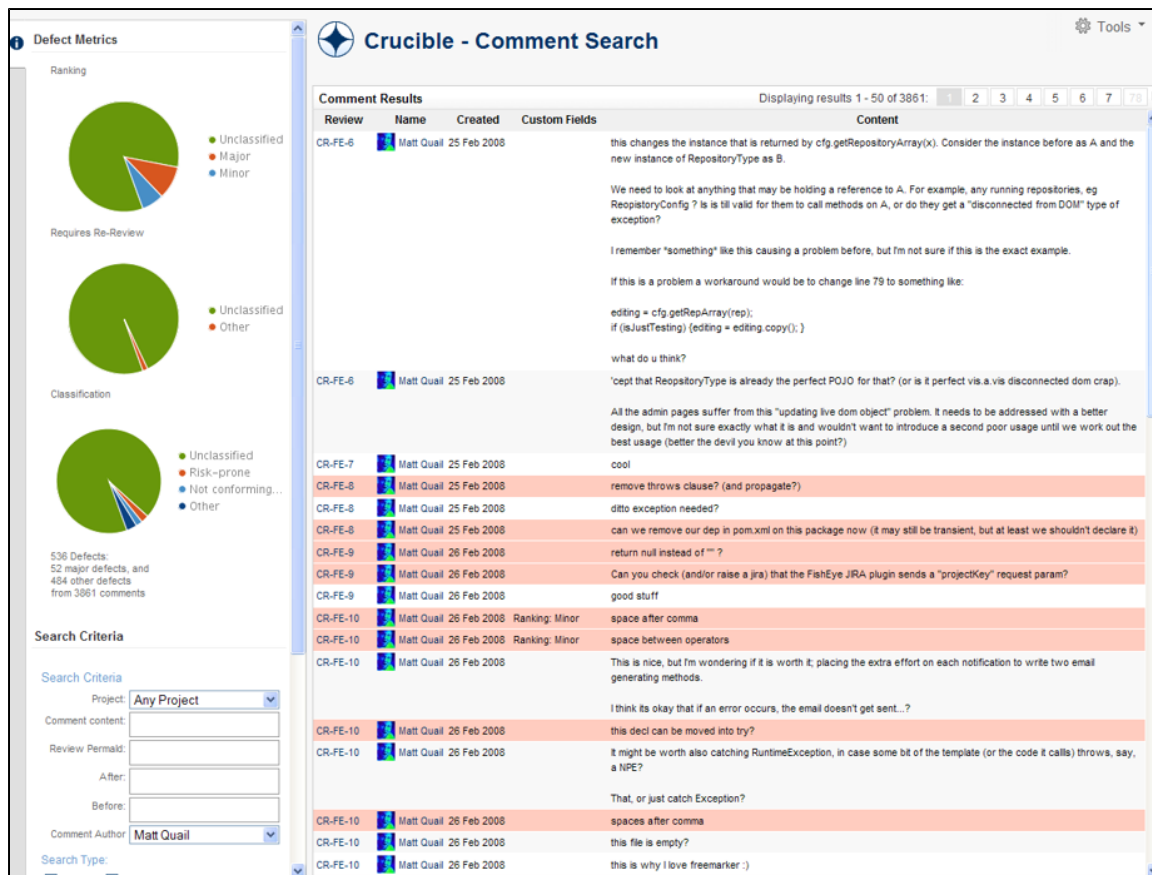
Classification: Select Classification

Search Comments

Screenshot above: Search Comment Filter Options

Displaying Defect Metric Charts for Comment Search Results

Once you have retrieved results for a review comment search, you can click '**Defect Metrics**' in the left navigation pane to display defect classification charts.



Screenshot above: Comment Search Results

Related pages

[Searching FishEye \(FishEye documentation\)](#)

Viewing people's statistics in Crucible

This page contains instructions on how to use the **People** tab in Crucible to see charts and activity from people with accounts on the system.

On this page:

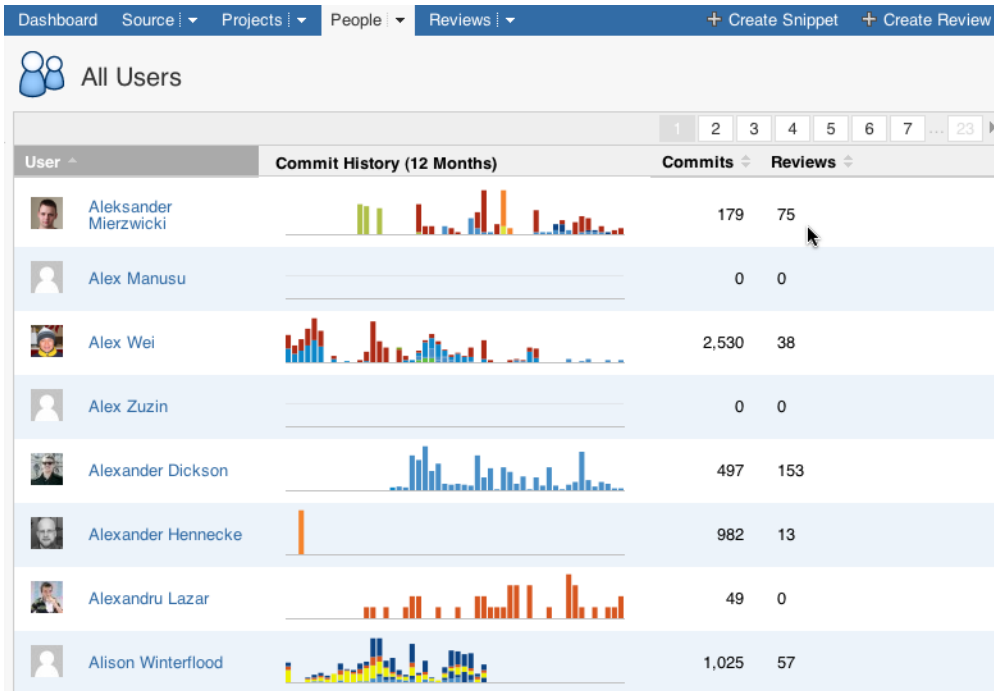
- [Opening the list of People](#)
- [Viewing a Person's Activity Screen](#)
- [Viewing charts of a person's activity](#)

Opening the list of People

To view statistics on People in Crucible, (that is, code authors, committers and reviewers) click the **People** tab at the top of the page.

The list of all people shows all users that have accounts on the system. By default, each user has a unique avatar that is randomly formed from the text in their email address. You can add your own avatar by uploading an image to an external service such as Gravatar, which Crucible supports. See [Changing your User Profile](#).

Screenshot: List of all People in Crucible (when using FishEye with Crucible)



Viewing a Person's Activity Screen

Click on a username to see a listing of activity for them as well as charts showing statistics for their activity.

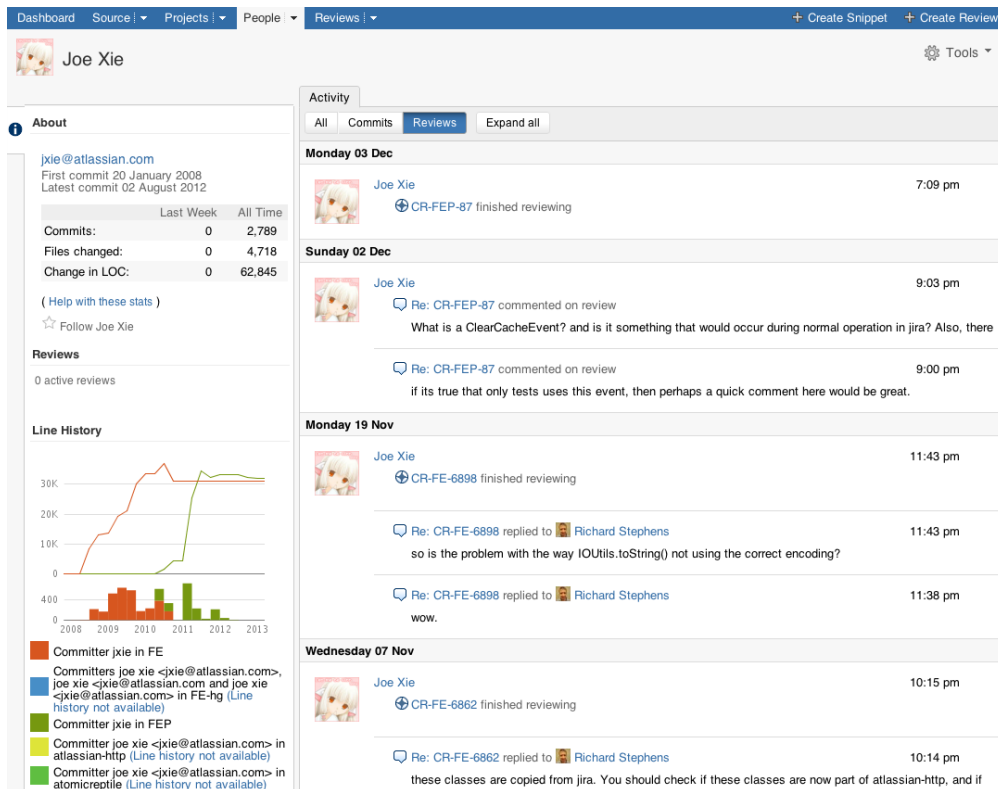
The right hand pane displays a list of all activity for this user. You can:

- click the icons to view full commit information in FishEye
- click JIRA issue names to open the work ticket on an item
- click the long button to see the list of files in context
- click the [star](#) icon to add an item to your favourites.

The left hand pane displays charts around this activity, including:

- number of active reviews
- charted history of lines of code
- code committing activity
- general statistics.

Screenshot: The People Activity Screen in Crucible



i Some users may not appear to have the correct number of Files Changed or LOC, despite regularly committing. In this situation, if they have committed to a directory which is not covered by the regexes in your symbolic definition (i.e. they have committed to a directory that is neither trunk, branches or tags) then that directory will be counted as part of trunk. Also note that creating tags and branches themselves does not count toward the totals.

Viewing charts of a person's activity

To see information on a person's activity charted in detail, click the headings in the left-hand pane. Each heading will show more information on demand, when clicked. The information available and what it means is listed below.


! The charts in this section are only available when using FishEye.


Screenshot: People Activity Charts in Crucible

• About

The username section shows the email address, then the first and latest commit dates for the person in context.

Also displayed are data points for the previous week and all-time. It shows number of commits, number of files changed and number of lines changed.


Joe Xie



About

jxie@atlassian.com
 First commit 20 January 2008
 Latest commit 02 August 2012


	Last Week	All Time
Commits:	0	2,789
Files changed:	0	4,718
Change in LOC:	0	62,845


([Help with these stats](#))

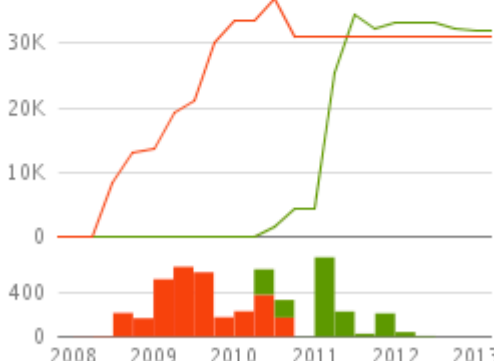
☆ Follow Joe Xie



Reviews


[To Review \(0\)](#)
[Ready to Close \(0\)](#)
[Out For Review \(0\)](#)
[Open \(2\)](#)
[Closed \(1017\)](#)



 Counts may include data that you cannot access.



Line History



 Committer jxie in FE
 Committers joe xie <jxie@atlassian.com>, joe xie <jxie@atlassian.com> and joe xie <jxie@atlassian.com> in FE-hg ([Line history not available](#))

 Committer jxie in FEP
 Committer joe xie <jxie@atlassian.com> in atlassian-http ([Line history not available](#))

 Committer joe xie <jxie@atlassian.com> in atomicreptile ([Line history not available](#))

 Committer joe xie <jxie@atlassian.com> in commithooks ([Line history not available](#))

• Reviews

The Reviews section shows several filters that you can click to constrain the review items shown in the right-hand pane. The options are **To Review**, **Ready to Close**, **Out For Review**, **Open** and **Closed**.

• Line History

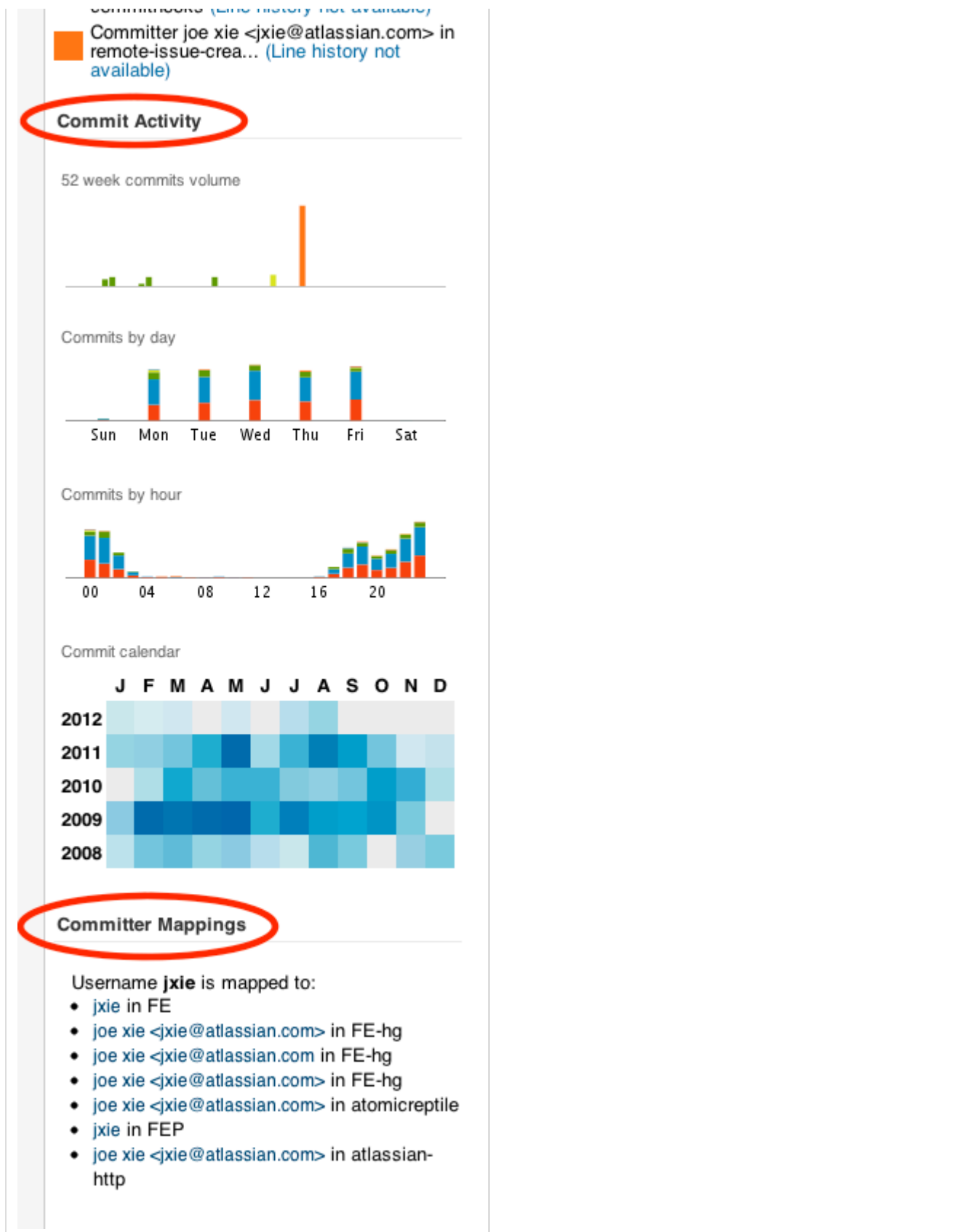
The Line History section shows a graph with the number of lines committed to the repository, charted over time.

• Commit Activity

The Commit Activity section shows four smaller charts; the first showing the volume of commits over a 52 week period; the second showing the relative number of commits on days of the week; the third showing the relative number of commits by the hour of the day when they were lodged; the last shows a commit calendar.

• Committer Mappings

The Committer Mappings section displays username mappings from various systems if they have several usernames in play.





Browsing Projects

To browse the content in a project, click the **Projects** tab at the top of the page. The '**Projects**' view opens (see 'The Crucible Projects Index' screenshot below).

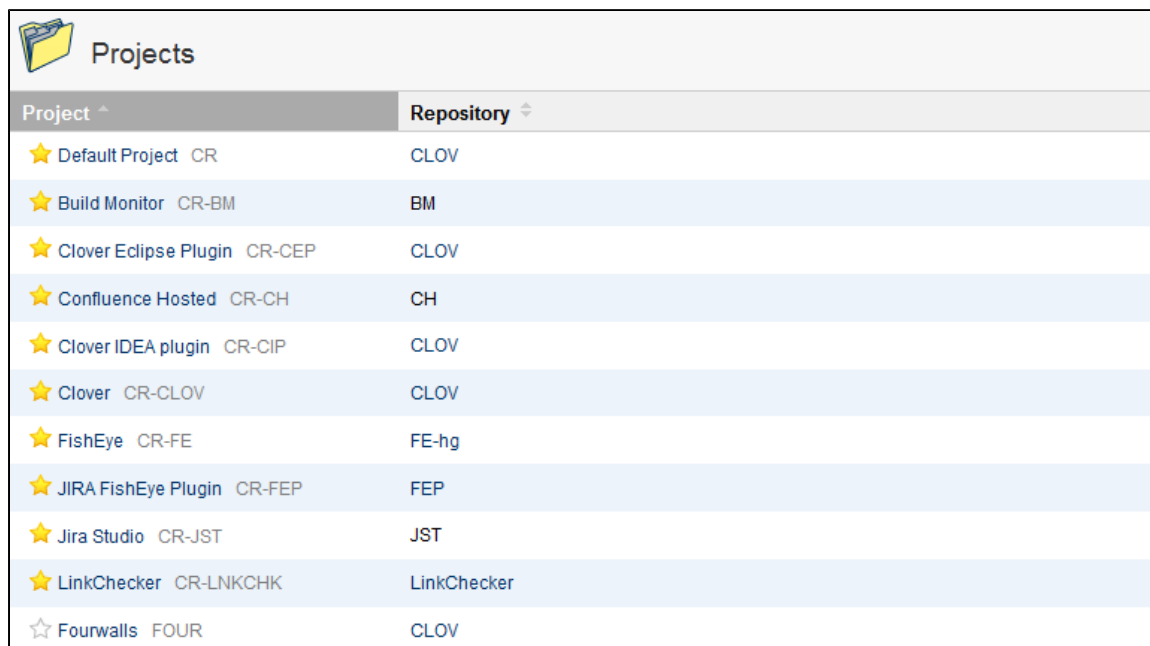
A list of projects will be shown if there is more than one. Click the name of the desired project to open it. The '**Project Activity**' page opens (see 'The Crucible Project View' screenshot below). In the left navigation bar, charts showing overall project statistics are displayed.

There are a number of sub-tabs on this page, listed in the table below.

Sub-Tab Name	Description
Activity	<ul style="list-style-type: none"> • All Activity — The default view. • Commits — Shows commits in the project (visible when using FishEye). • Reviews — Shows reviews in the project. • Issues — Shows JIRA issues related to this project.  Only visible if you have set up JIRA integration in Crucible. • Show Revisions — Shows or hides revisions in the project (visible when using FishEye). • Earlier Activity (Left Arrow icon) — Loads a page of earlier project activity. • Later Activity (Right Arrow icon) — Loads a page of later project activity.
Reviews	Shows recent reviews in the project.

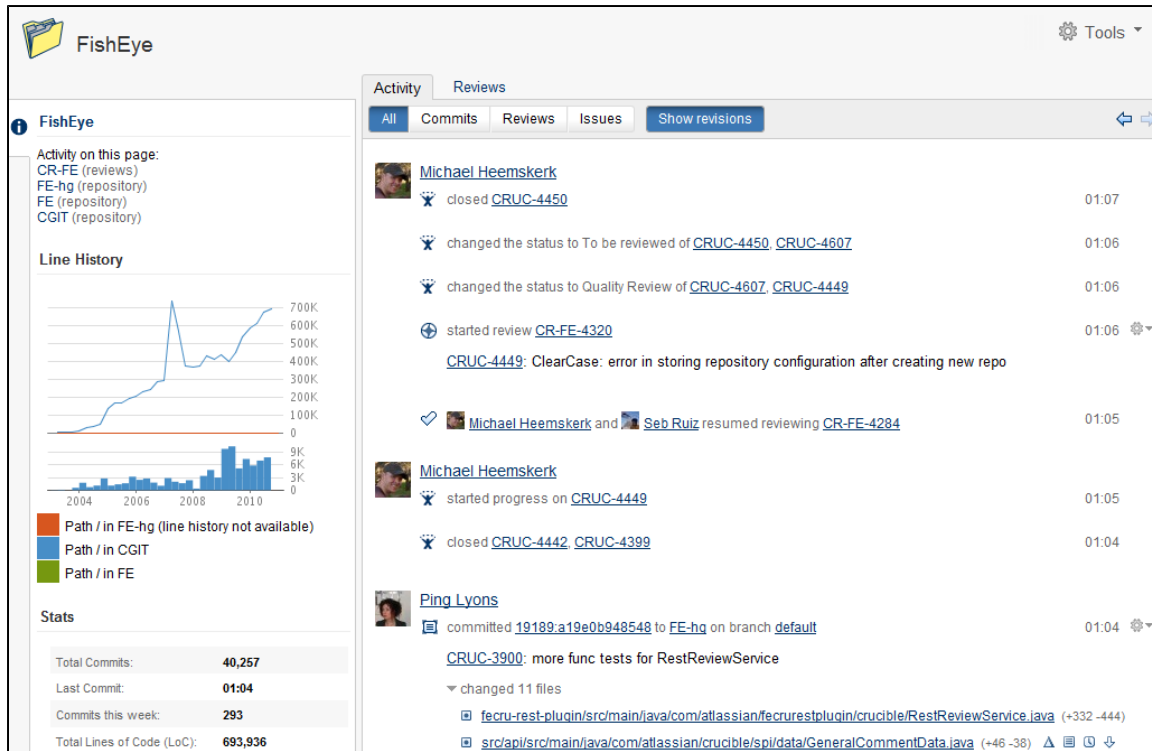
 The Projects tab is only visible in Crucible. Read more about the [definition of a project](#).

Screenshot: The Crucible Projects Index



Project ^	Repository ^
★ Default Project CR	CLOV
★ Build Monitor CR-BM	BM
★ Clover Eclipse Plugin CR-CEP	CLOV
★ Confluence Hosted CR-CH	CH
★ Clover IDEA plugin CR-CIP	CLOV
★ Clover CR-CLOV	CLOV
★ FishEye CR-FE	FE-hg
★ JIRA FishEye Plugin CR-FEP	FEP
★ Jira Studio CR-JST	JST
★ LinkChecker CR-LNKCHK	LinkChecker
☆ Fourwalls FOUR	CLOV

Screenshot: The Crucible Project View



Viewing Project Statistics

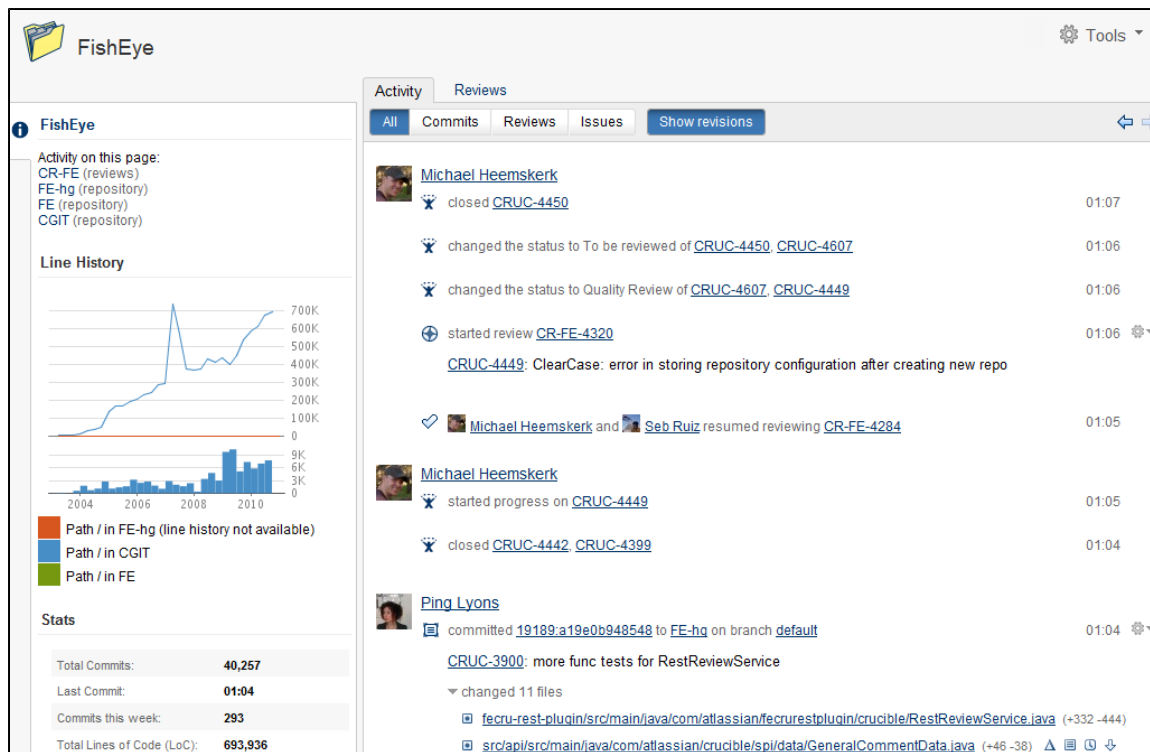
This page explains the layout of the Project Summary page.

On this page:

- [Project Name Panel](#)
- [Project Line History Panel](#)
- [Project Stats Panel](#)
- [Project Commit Activity Chart](#)

When you click through to a Crucible Project from the [Projects Tab](#), the '**Project Summary**' screen opens.

[Screenshot: The Crucible Project Summary Page](#)



In the right hand pane, you can see an activity stream relating to this project. In the left hand pane, you can see various statistics charts relating to the project in context. These appear in a reduced size until you click them, when they will expand to show more information.

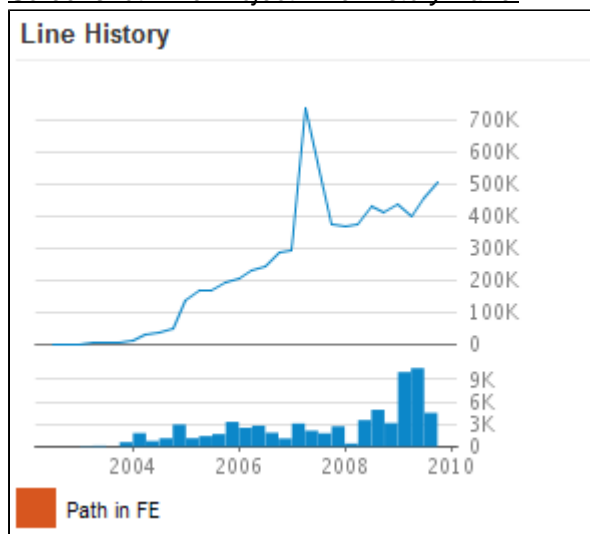
Project Name Panel

This contains a short message explaining which Crucible Project and FishEye repositories are being accessed to show the activity stream on the page.

Project Line History Panel

This panel contains a chart showing the lines of code added to the repository, graphed over time.

Screenshot: The Project Line History Panel



Project Stats Panel

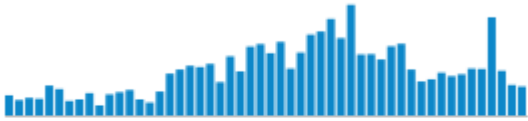
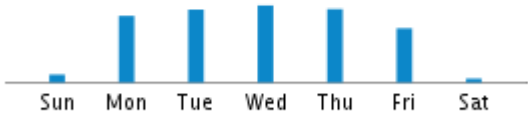
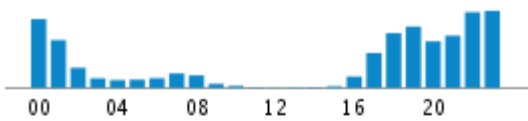
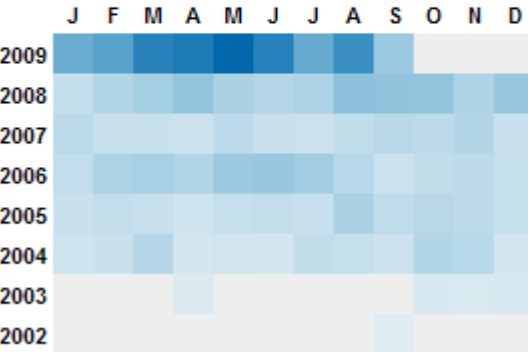
This panel contains a chart showing numerical data for commits, files changed and lines change, graphed over time.

Screenshot: The Project Stats Panel

Stats		
	Last Week	All Time
Commits:	137	16,033
Files changed:	543	69,896
Lines changed:	33,543	504,583

Project Commit Activity Chart

This panel contains a number of charts:

Chart	Description
<p>Commit Activity</p> <p>52 week commits volume</p>  <p>Commits by day</p>  <p>Commits by hour</p>  <p>Commit calendar</p> 	<p>52 week commits volume This chart shows the amount of commits, shown by week over a one year period.</p> <p>Commits by day This chart shows the amount of commits, graphed by day over the past week.</p> <p>Commits by hour This chart shows the amount of commits, graphed by hours over the past day.</p> <p>Commit calendar This chart shows the amount of commits (shown as darker colours to indicate more commits) graphed by month, over years that the repository has been running.</p>

Changing your User Profile

See [Changing your User Profile](#) in the FishEye documentation.

Viewing Your Favourites

This page contains instructions on how to view, rename and remove your **existing favourites** in Crucible. You can select code reviews, changesets, files, people and repositories as favourites in Crucible. This allows you to

personalise the information that you see in your [activity stream](#).

See [Using favourites](#) for instructions on how to add new favourites.


On this page:

- [Viewing your Existing Favourites](#)
- [Renaming a Favourite](#)
- [Removing a Favourite](#)

Viewing your Existing Favourites

To view your favourites,

1. Click the favourites icon (★) in the header.
The code reviews, changesets, files, people and repositories that you have selected will be displayed in a list on the dashboard (see screenshot).
2. Click the favourites icon (★) next to a favourite to show the dialogue for [renaming](#) (i.e. changing the 'Label') the favourite or [removing](#) the favourite. See [Using favourites](#) for more information.

 *Tip: You can add favourites wherever you see star icons next to code reviews, changesets, files, people and repositories, not just on this screen.*

Screenshot: Viewing favourites

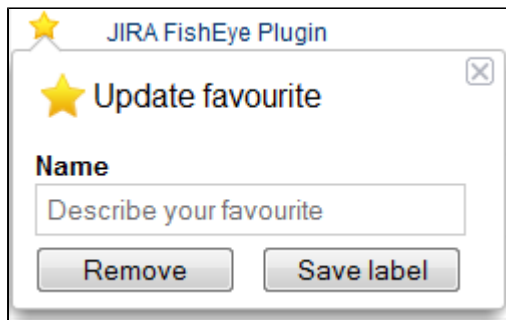
You have 13 favourites.	
★	FE (SVN repository)
★	Clover Eclipse Plugin
★	Confluence Hosted
★	Clover IDEA plugin
★	JIRA FishEye Plugin
★	Jira Studio
★	LinkChecker
★	A Good Marketing ploy
★	Build Monitor
★	Default Project
★	Clover
★	Testing Project
★	FishEye

Renaming a Favourite

To rename a favourite,

1. Click the favourites icon (★) in the header.
The code reviews, changesets, files, people and repositories that you have selected will be displayed in a list on the dashboard (see screenshot).
2. Click the favourites icon (★) next to a favourite to show the 'Update favourite' dialogue (see screenshot below).
3. Enter the new name for the favourite in the '**Name**' field and click the '**Save label**' button. The favourite will be renamed on the dashboard.


Screenshot: The 'Update favourite' dialogue



Removing a Favourite

To view your favourites,

1. Click the favourites icon (★) in the header.
The code reviews, changesets, files, people and repositories that you have selected will be displayed in a list on the dashboard (see screenshot).
2. Click the favourites icon (★) next to a favourite to show the 'Update favourite' dialogue (see screenshot below).
3. Click the '**Remove**' button. The code review, changeset, file, person or repository will be removed as your favourite (the icon will be greyed out) and will not display the next time you view your list of favourites.

 *Tip: You can remove favourites wherever you see star icons next to code reviews, changesets, files, people and repositories, not just on this screen, not just on this screen.*

Screenshot: The 'Update favourite' dialogue



Using favourites

This page contains instructions on adding favourites in Crucible. You can select code reviews, changesets, files, people and repositories to be added to your favourites. This allows you to personalise the information that you see in your [activity stream](#). We suggest you select items that you are currently working on as favourites, to create a more relevant personalised view.

See [Viewing Your Favourites](#) for instructions on how to view your existing list of favourites and how to rename and remove favourites.

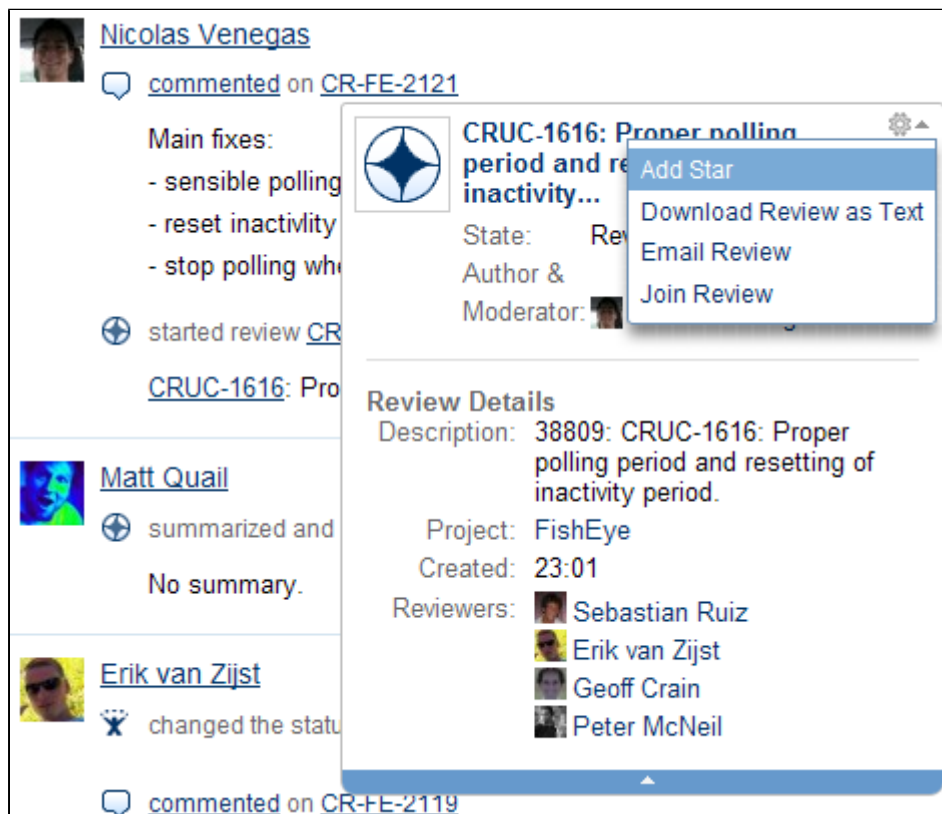
On this page:

- [Adding a review to your favourites](#)
- [Adding a review comment thread to your favourites](#)
- [Adding a project to your favourites](#)
- [Adding a person to your favourites](#)
- [Adding a changeset to your favourites](#)
- [Adding a file or folder to your favourites](#)
- [Adding a repository to your favourites](#)

Adding a review to your favourites

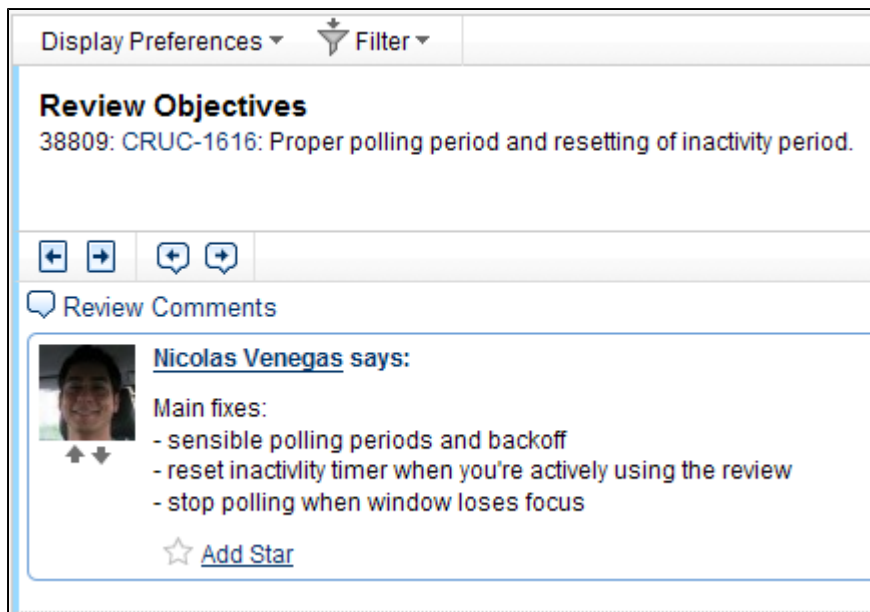
To add a review to your favourites, hold the mouse cursor over the review name when it appears in a menu screen. The Review Hover menu appears. At the top right of the Review Hover menu, click the small grey cog icon that indicates the **Tools** menu. The Tools menu opens. In the Tools menu, click **Add Star**. This will add it to your favourites.

Screenshot: Adding a Review To Your Favourites

**Adding a review comment thread to your favourites**

To add a review comment thread to your favourites, click the link **Add Star** next to the grey star icon at the bottom of the first comment of the thread. From then on, new comments will be shown in your favourites activity stream.

Screenshot: Adding a Review Comment Thread to Your Favourites



Adding a project to your favourites

To add a project to your favourites, click the **Projects** tab. The Projects view appears. Here, simply click the grey star icon that appears next to the desired project name. The star icon will turn yellow, showing that it is selected as a favourite.

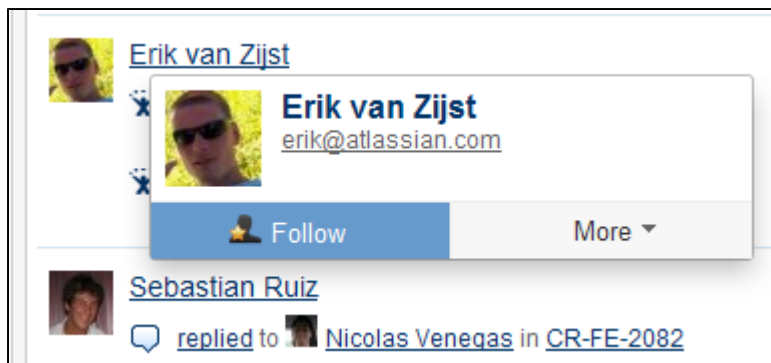
Screenshot: Adding a Project to your Favourites

Project ▴	Repository ▾
☆ Antlr Light SCM ANTLR	Antlr
☆ Atlassian Http Library ATL-HTTP	atlassian-http
☆ Default Project CR	CLOV
☆ Bitbucket Reviews CR-BB	bitbucket
☆ Build Monitor CR-BM	
☆ Clover Eclipse Plugin CR-CEP	CLOV
☆ Confluence Hosted CR-CH	CH
☆ Clover IDEA plugin CR-CIP	CLOV
☆ Clover CR-CLOV	CLOV-hg

Adding a person to your favourites

To add a person to your favourites, simply hold the mouse cursor over their username wherever it appears. The User Hover menu will appear. In the User Hover menu, click **Follow**. This will add the person to your favourites.

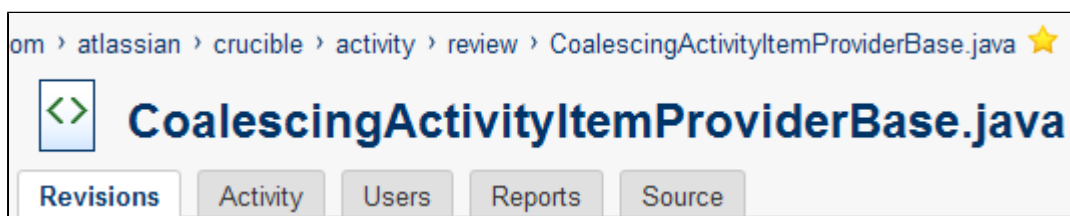
Screenshot: Adding a Person to Your Favourites



Adding a changeset to your favourites

To add a changeset to your favourites, firstly open the changeset desired from the **Source** tab. Once the changeset is open in Crucible, simply click the grey star icon that appears next to its name. The name appears in the breadcrumb links at the top of the screen.

Screenshot: Adding a Changeset to Your Favourites



Adding a file or folder to your favourites

To add a file to your favourites, firstly open the file or folder desired, from the **Source** tab. Once the file or folder is open in Crucible, simply click the grey star icon that appears next to its name. The name appears in the breadcrumb links at the top of the screen.

Screenshot: Adding a File or Folder to Your Favourites



Adding a repository to your favourites

Adding a repository to your favourites (requires [FishEye](#)), click the **Source** tab. The the 'Source' view appears. Here, simply click the grey star icon that appears next to the name of the desired repository. The star icon will turn yellow, showing that it is selected.

Screenshot: Adding a Repository to Your Favourites

Repository	State	Commit History (12 Months)
☆ FE	Running	
★ CLOV	Running	

Using Keyboard Shortcuts in Crucible

To see the available shortcuts, navigate to a review in Crucible, then choose **Tools > Keyboard Shortcuts**.

General shortcuts

Key	Function
?	Opens reference list of keyboard shortcuts
escape	Closes reference list of keyboard shortcuts
alt	Hold down then click and drag to select source line contents
shift + f	Toggle full screen review mode

Custom navigation

Key	Function
,	(Comma) Go to the previous element (file, comment, defect or diff hunk depending on your current context)
.	(Period) Go to the next element (file, comment, defect or diff hunk depending on your current context)

Comment navigation

Key	Function
n	Go to next review comment
p	Go to previous review comment
shift + p	Go to first review comment
shift + n	Go to last review comment
l	Go to next thread (skips replies)
h	Go to previous thread (skips replies)
]	Go to next unread comment
[Go to previous unread comment
r	Reply to a comment
m	Toggle comment read/unread status

File navigation

Key	Function
j	Go to the next element (file, comment, defect or diff hunk depending on your current context)
k	Go to the previous element (file, comment, defect or diff hunk depending on your current context)
shift + k	Go to first file
shift + j	Go to last file

u	Go to next unreviewed file
i	Go to previous unreviewed file
y	Set file reviewed and go to next unreviewed file
shift + y	Toggle file reviewed/unreviewed status
e	Expand current file
c	Collapse current file
shift + e	Expand all files
shift + c	Collapse all files

The Crucible workflow

This page provides an overview of Crucible workflows, followed by a simple example showing a code review between two people.

On this page:

Crucible Workflow

Example workflow: Two participant code review

1. The author starts the review
2. The reviewer comments on the code
3. The author responds to the comments
4. The author closes the review

Roles

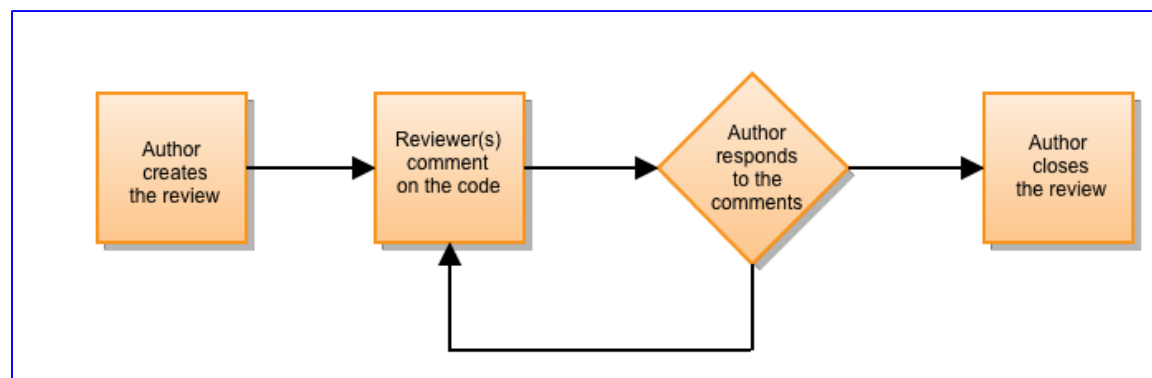
Crucible is a flexible application that caters for a wide range of team sizes and work styles. You will need to know about the basic roles used in Crucible:

- **authors:** Usually the creator of the code; the person who will act on the review's outcome.
- **reviewer:** A participant that will comment on the source files in the review, raising points and discussion on the work that was done.
- **moderator:** Usually the person who starts the review and is responsible for deciding the outcomes and closing it. The moderator is disabled for the "agile" permission scheme to simplify workflow.

Crucible Workflow

There are a number of different ways in which you can use Crucible for code reviews. The following diagram shows the basic workflow that applies to most Crucible code reviews.

Diagram: Workflow for One-to-One Reviews



Need more information? Read more about the different forms of [workflow](#) in Crucible.

Next, we explore an example workflow for a two-person code review in Crucible.

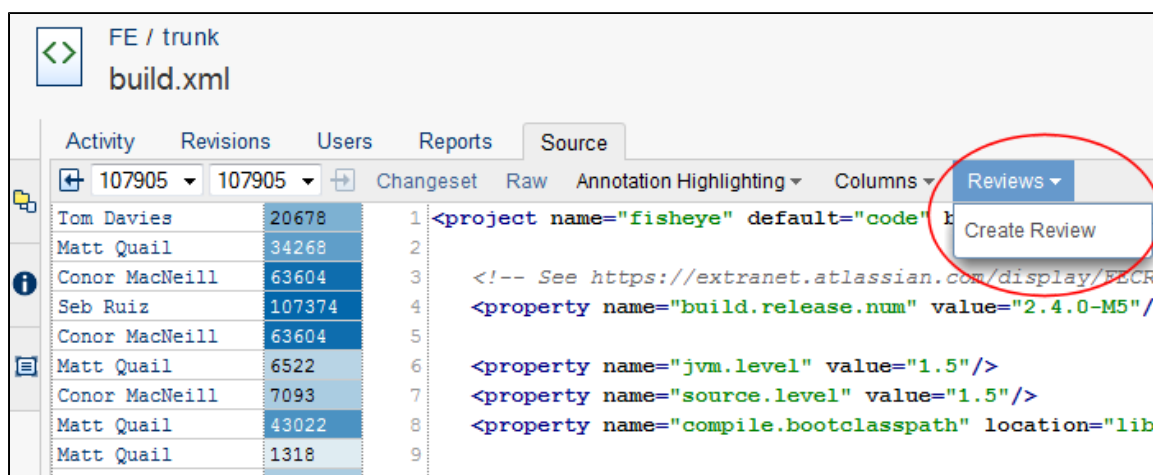
Example workflow: Two participant code review

This section describes a one-to-one review involving two people. In this example, the code author wears "two hats", acting as [review creator](#), and [code author](#), managing the review process as well as taking final responsibility for closing the review. The second person is the reviewer.

1. The author starts the review

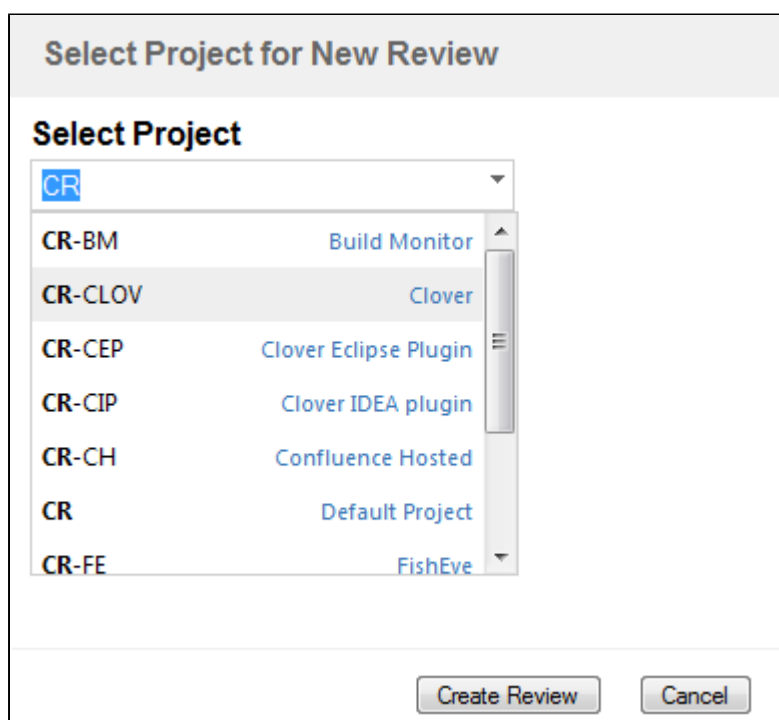
To begin, the code author sets up the review. There are a [number of ways to do this](#), but for this example, the author starts from the FishEye source view of the file he wants to review:

Screenshot: Opening a review from the FishEye Source view



From the FishEye Source view, the author chooses **Reviews** > **Create Review**. If there are multiple projects, the Select Project dialogue opens.

Screenshot: The Select Project dialogue



In the Select Project dialogue, you are prompted to choose a project for this review from the drop-down list. Once the selection is made, the author clicks **Create Review**. The Edit Review Details dialogue opens, where the author can create and issue the review.

Screenshot: Creating a review in the Edit Review Details dialogue

In the Edit Review dialogue, the author enters information needed for the review. This includes entering a title and description for the review, selecting reviewers, a due date and the key for a related JIRA issue (if any). The project and author are pre-selected.

The author can also add more content to the review, if they wish, by clicking **Add Content**. See [Adding content to the review](#).

When finished, the author clicks **Done**. The review will now be created in a draft form.

Screenshot: A new Crucible review

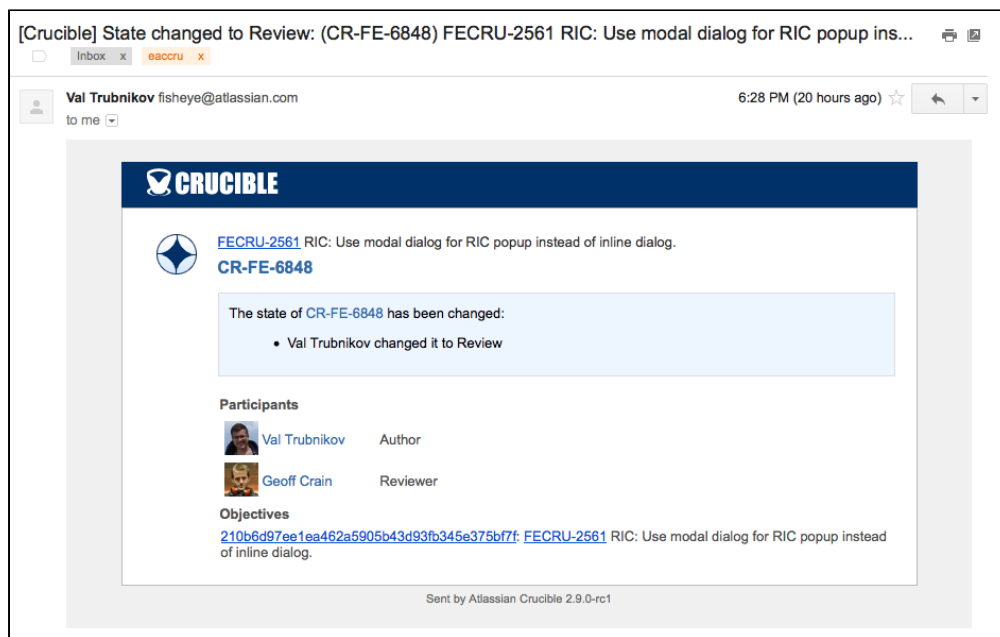
The draft review opens. In the draft stage, the author can check the contents of the review files to ensure they are correct and put in any notes for reviewers as comments. During the draft phase, no notification emails are sent out to reviewers. Once the author is finished with the draft phase, he clicks **Start Review**.

The review will now be started and a notification email will go out to all participants. This lets them know that the review is under way and prompts them to take action, providing a URL for direct access to the review.

2. The reviewer comments on the code

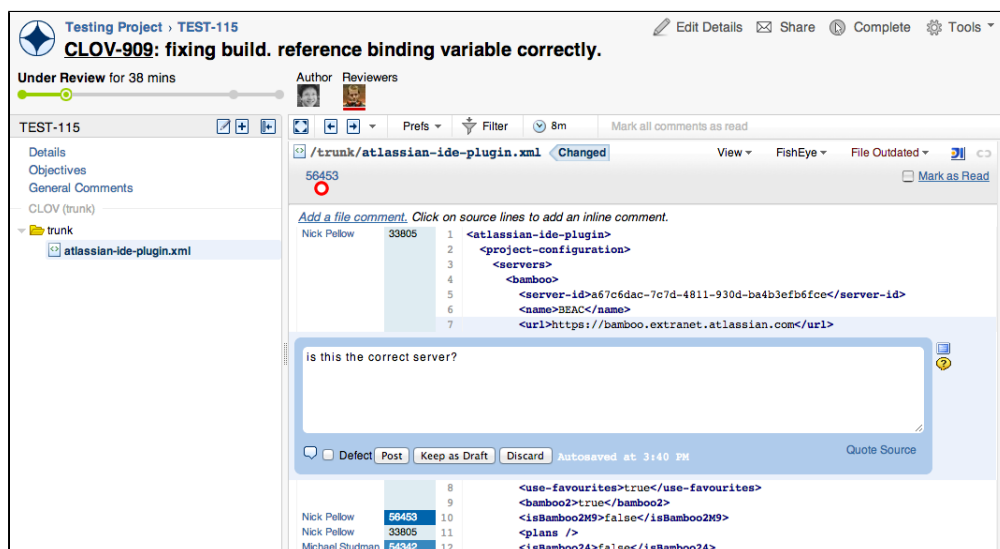
The reviewer will receive an email from Crucible with a link that they can follow to the review.

Screenshot: A Crucible review notification email



When the reviewer clicks the link in the notification email, the Crucible Review screen opens.

Screenshot: The Crucible Review screen



On the Crucible Review screen, the code changes under review are displayed. The reviewer clicks file names to expand the code for in-line reviewing. As the reviewer reads the changes, they can simply click on any line to enter a comment there (multiple lines can be selected by clicking and dragging).

The reviewer clicks **Post** when each comment is finished.

The reviewer repeats this process for all files in the review. Reviewers can leave the session and resume it later; their work is automatically saved.

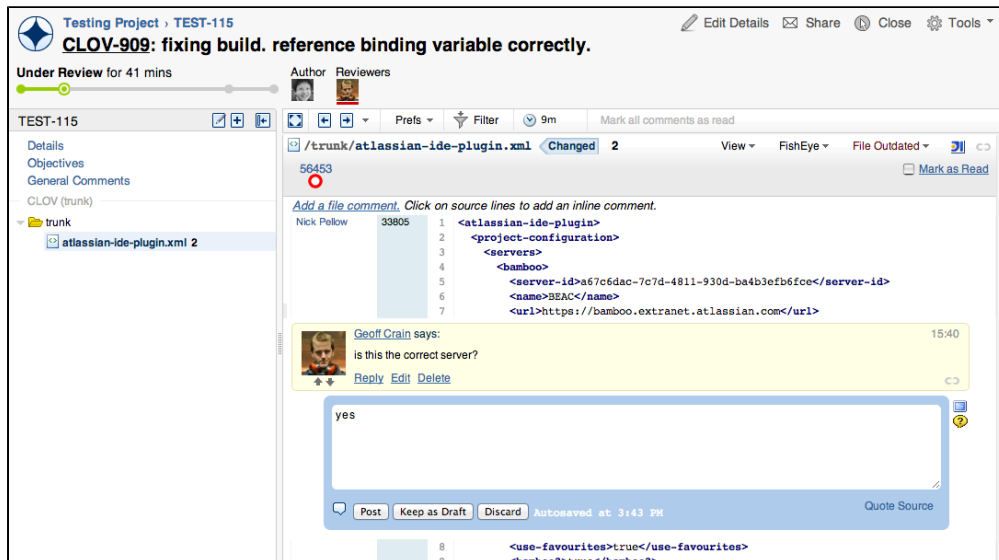
When the reviewer has finished their code review work, they click **Complete**.

i By default, an email is sent to participants every time a comment is posted. This is an individual setting. Each reviewer can [configure their own profiles](#) to adjust the list of events that will trigger email notifications.

3. The author responds to the comments

During the review process, the author can also make contributions, responding to reviewer comments and making corrections.

Screenshot: Comment threads in Crucible



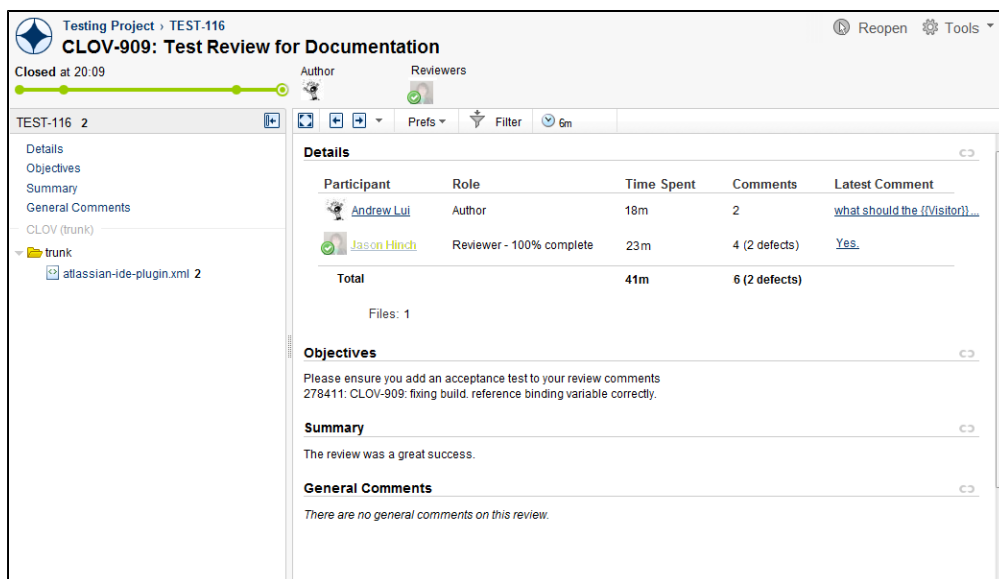
4. The author closes the review

When all reviewers have "Completed" their reviews, the author is notified via email. The author clicks the link in the notification email, returning to the Review screen.

The author will then add any final comments, then click Close when finished.

This closes the review, signalling the end of work. A final email notification will be sent to the review participants, informing them that the review is now closed. The closed review screen will load, archiving the completed review as read-only.

Screenshot: Viewing a closed review



If the author ever needs to resume work on the closed review, they can simply click **Reopen** when viewing this screen. Doing this will return the review's status to "open".

Defining your workflow

This document describes several forms of Crucible Workflow in detail. Depending on the size of your team, there

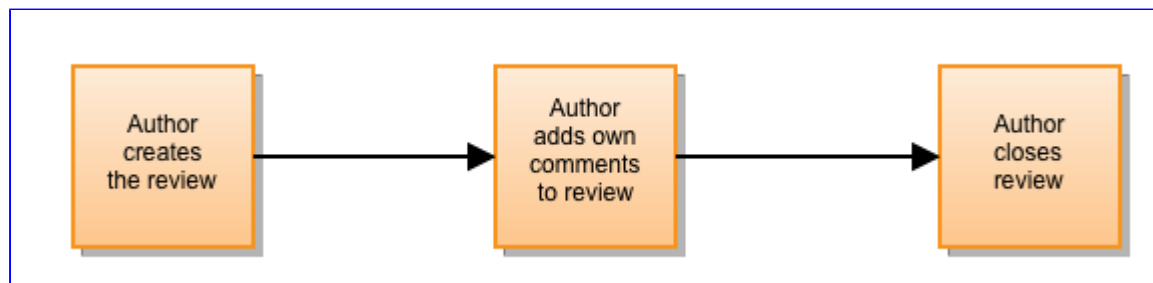
are four different ways that a development team could use Crucible for code reviews. Choose the workflow which suits your team.

- [Lightweight Code Commenting with Crucible \(individual\)](#)
- [One-to-One Reviews \(Agile Pair\)](#)
- [One-to-Many Reviews Without a Moderator \(Agile Team\)](#)
- [Formal Group Reviews \(CMM Team\)](#)

Lightweight Code Commenting with Crucible (individual)

1. [Author](#) commits new work.
2. Author creates the review, and adds comments using the easy web interface.
3. Author summarizes and closes the review, saving the code comments in Crucible's database, which is stored outside the repository.

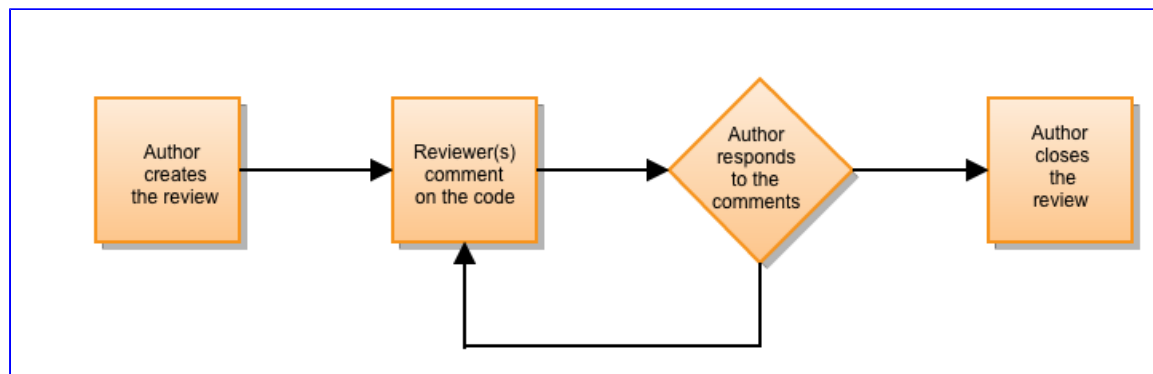
Diagram: Workflow for Lightweight Code Commenting



One-to-One Reviews (Agile Pair)

1. [Author](#) creates the review.
2. Author invites reviewer to take part in the review.
3. [Reviewer](#) creates comments on the code.
4. Author responds to reviewer comments.
5. Follow-up comments are made if necessary.
6. Reviewer finishes own review process.
7. Author summarizes and closes the review.

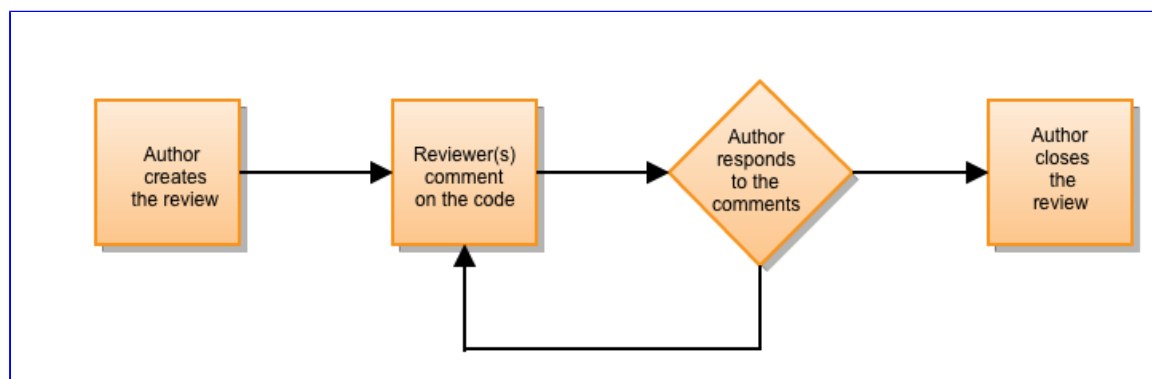
Diagram: Workflow for One-to-One Reviews



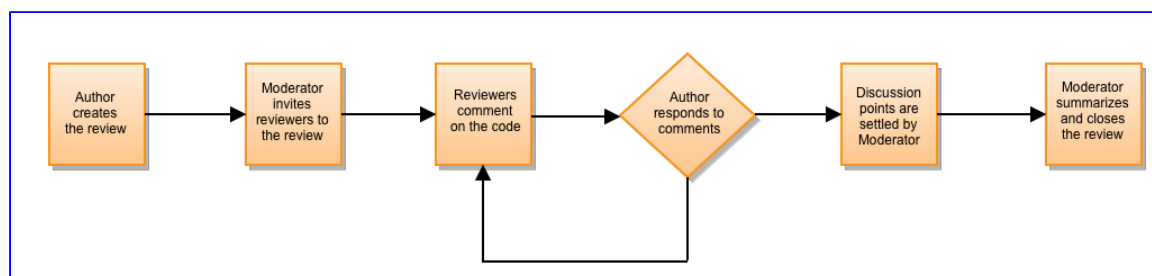
For more information on one-to-one reviews, see [The Crucible workflow](#). The workflow process in Crucible is covered in detail within this document.

One-to-Many Reviews Without a Moderator (Agile Team)

1. **Author** creates the review.
2. Author invites **reviewers** to take part in the review.
3. Reviewers make comments on the code.
4. Author responds to reviewer comments, follow-up comments are made if necessary.
5. Reviewers complete their reviews.
6. Author summarizes and closes the review.

Diagram: Workflow for One-to-Many Reviews**Formal Group Reviews (CMM Team)**

1. **Author** creates the review.
2. **Moderator** invites **reviewers** to take part in the review.
3. Reviewers make comments on the code.
4. Author responds to reviewer comments.
5. Follow-up comments are made if necessary.
6. Each discussion point is settled by the Moderator.
7. Moderator summarizes and closes the review.

Diagram: Workflow for Formal Group Reviews

To see a simple example of how to use Crucible with two people, see [The Crucible workflow](#).

Roles and Status Classifications

This page explains the roles and status classifications in Crucible.

- [Roles in Crucible](#)

- [Author](#)
- [Creator/Moderator](#)
- [Reviewer](#)
- [User](#)
- [Status Classifications in Crucible](#)
 - [Draft](#)
 - [Under Review](#)
 - [Summarized](#)
 - [Closed](#)
 - [Abandoned](#)

Roles in Crucible

Author

The *author* is the person primarily responsible for acting on the outcomes of the review. In the vast majority of cases the author will be the person who made the code change under review.

Creator/Moderator

The *creator* is the person who [creates the review](#). In most cases this person will also act as [moderator](#). The *moderator* is the person responsible for [creating](#) the review, [approving](#) the review, determining when reviewing is finished, [summarising](#) the outcomes and [closing](#) the review. By default, the moderator is the [creator](#). See also [author](#), the person whose changes to the code are to be reviewed.

Reviewer

A *reviewer* is a person assigned to [review the change](#). Reviewers can make [comments](#) and indicate when they have [completed their review](#). The [moderator](#) and [author](#) are implicitly considered to be participants of the review, but are not reviewers.

User

A *user* is a person using Crucible.

Status Classifications in Crucible

Draft

Draft Reviews are not yet completed or released to the reviewers.

Under Review

Reviews Under Review are either waiting for attention by reviewers or waiting to be summarized.

Summarized

Summarized reviews are past the reviewing phase. The moderator can still add conclusions or comments.

Closed

Closed reviews are complete.

Abandoned

Abandoned reviews are 'in the trash'. Reviews must be Abandoned before they can be deleted.

See also the [Glossary of terms](#) used in Crucible.

Creating a review

This page provides an overview of how to create a review in Crucible.

More information about the stages in creating a Crucible review can be found on these pages:

- [Add content to the review](#)
- [Choose reviewers](#)
- [Perform the review](#)
- [Summarise and close the review](#)

You can also create Crucible reviews in these other ways:

- [Creating a review from FishEye](#)
- [Creating a review from JIRA](#)
- [Creating a review from a URL](#)
- [Creating a Snippet Review](#)
- [Creating reviews from the command line](#)

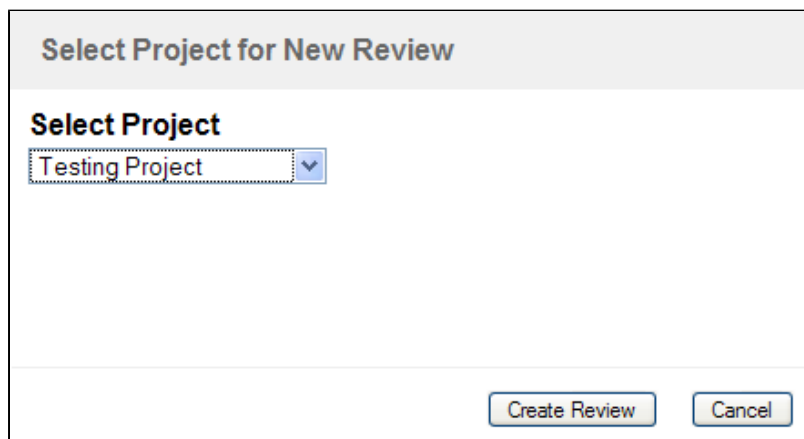
i Note that only people with the 'Create' [permission](#) can create a review.

On this page:

- [Create a new review](#)
- [Add content to the review](#)
- [Edit the review details](#)
- [Considerations when creating reviews](#)

Create a new review

Within Crucible, create a new review by clicking **Create review** in the header. Select the project for the review (if you have multiple projects), and click **Create Review**.



The screenshot shows a dialog box titled "Select Project for New Review". Inside the dialog, there is a section labeled "Select Project" which contains a dropdown menu. The dropdown menu currently displays "Testing Project" with a downward arrow on the right. Below the dropdown menu, there are two buttons: "Create Review" and "Cancel".

Add content to the review

In the 'Add Content to Review' dialog, click one of the options to choose files or changesets for review. Crucible supports post-commit and pre-commit review types – these simply depend on the type of content you add to the review:

- **Post-commit reviews** – You want code changes that have already been committed to the SCM to be reviewed. In Crucible, you can browse and search for files or changesets in the SCM, which you then add to the review. Crucible can suggest files that should be considered for review, based on recent activity.
- **Pre-commit reviews** – You want code changes that have not yet been committed to the SCM to be reviewed. You need to [create a patch file](#) for the code changes and then, in Crucible, [add the patch](#) to the review.

See [Adding content to the review](#) for more details.

<p>Browse Changesets – browse for SCM changesets</p> <p>Explore Repositories – browse for SCM files</p> <p>Search for Files – or changesets, in the SCM</p> <p>Suggest Files – get Crucible to suggest files</p> <p>Pre-commit – upload patch files</p> <p>Attachments – upload any type of file</p>	<p>Add Content to Review TEST-53</p> <p>Browse Changesets Browse recent changes for revisions to add to this review</p> <p>Explore Repositories Use a directory tree to find files</p> <p>Search for Files Use Crucible's search to find revisions to add to this review</p> <p>Suggest files Get Crucible to suggest changes that can be added to this review</p> <p>Pre-commit Upload a patch file to be reviewed - diffs of files will be extracted</p> <p>Attachments Upload a file to be reviewed</p> <p>Edit Details Abandon Review</p>
--	---

Note that Crucible supports [iterative](#) reviews – for both post-commit and pre-commit reviews you can update the review with new versions of files, and changesets, created after the review was started. Crucible allows the reviewer to see the different versions of updated files, so as to understand the changes that have been made.

Add Content to Review TEST-53

Repository: CLOV
 Author: [any]
 Branch: clover-2.6.x Tag:
 Add to Review as: Diff to Previous Version Remove all revisions from review

Files in CLOV/

- branches/
 - clover-2.6.x/
 - buildutil/
 - clover-ant/
 - etc/
 - lib/
 - src/
 - com/
 - org/apache/tools/ant/task
 - test/
 - testcases/
 - clover-web/src/
 - cloverantlr/
 - core/
 - eclipse/
 - etc/
 - extlib/
 - fun/
 - groovy/
 - idea7/
 - lib/
 - perfmon/
 - plugin-core/
 - scala/

NAME	REV
<input checked="" type="checkbox"/> CloverCompilerAdapter.java	46083 by mstudman

[Add More Content](#) [Edit Details](#) [Abandon Review](#) [Start Review](#) [Done](#)

Click **Edit Details** to move to the next stage.

Edit the review details

Here you can choose a title, reviewers, objectives, due date, linked reviews and issues:

Edit Review Details TEST-54

Project: Testing Project
 Title: Quick Review for Compliance
 Author: Edwin Dawson
 Moderator: Edwin Dawson
 Reviewers: Enter user name ☐ Allow anyone to join
 Geoff Crain
 Objectives: A spot check for compliance purposes.
 Please ensure you add an acceptance test to your review comments.
 Due Date:
 Linked Review:
 Linked Issue:

Once you're finished, click **Done**.

Testing Project TEST-54 Quick Review for Compliance

TEST-54

This review is in edit mode
 Here you can edit files already in your review
 • Click the red 'x's to remove files and revisions
 • Click the 'Add Revisions' menu item in a file's toolbar to add newer (or older) revisions

Details

Participant	Role	Time Spent	Comments	Latest Comment
Edwin Dawson	Author & Moderator	1m		
Geoff Crain	Reviewer - 0% complete			
Total		1m	0	

Files:

Patches:

Objectives
 A spot check for compliance purposes.
 Please ensure you add an acceptance test to your review comments.

General Comments
 There are no general comments on this review. [Add a general comment](#)

The review will open in a preview form. Here, you can check all the details and click to edit any that aren't correct. Once you click **Start Review**, the review is live.

When the reviewers have performed their reviews, you can [summarise and close](#) the review.

Considerations when creating reviews

Review effectiveness

Based on our own experience of over 13000 reviews, we have found that reviews with fewer files and reviewers are more effective. We have seen effects such as:

- Time spent reviewing each file decreases as the number of files increases.
- Reviewers spend less time reviewing as the number of reviewers increases.
- Reviewers find fewer defects as the number of reviewers increases.

This suggests that reviews should be created with care to get the best value from them:

- Avoid overloading the review. Reviews should be focussed on just a few necessary files.
- Avoid overcrowding the review. Reviewers should be selected with care, and should be guided individually on what to look for.

Crucible performance

The performance of a Crucible instance can be seriously degraded if very large reviews are created.

To prevent a user from accidentally causing this, Crucible has a limit on the review content size when creating

reviews. The limit is 800 file revisions.

Adding an entire directory's contents to a Crucible review

To add an entire directory's contents to a Crucible review, you will need to search to find all the files, for example using "select revisions from dir /some/dir where is head and not is deleted", or similar logic.

i It is currently not possible in Crucible to add all the contents of a directory to a review with one click.

Creating a review from FishEye

This page explains how to create a Crucible review from FishEye.

On this page:

1. Open the FishEye Source view
2. Create the review
3. Choose a project

1. Open the FishEye Source view

To begin, the code author sets up the review. There are [other ways to do this](#), but for this example, the author starts from the FishEye Source view of the file he or she wants to have reviewed.

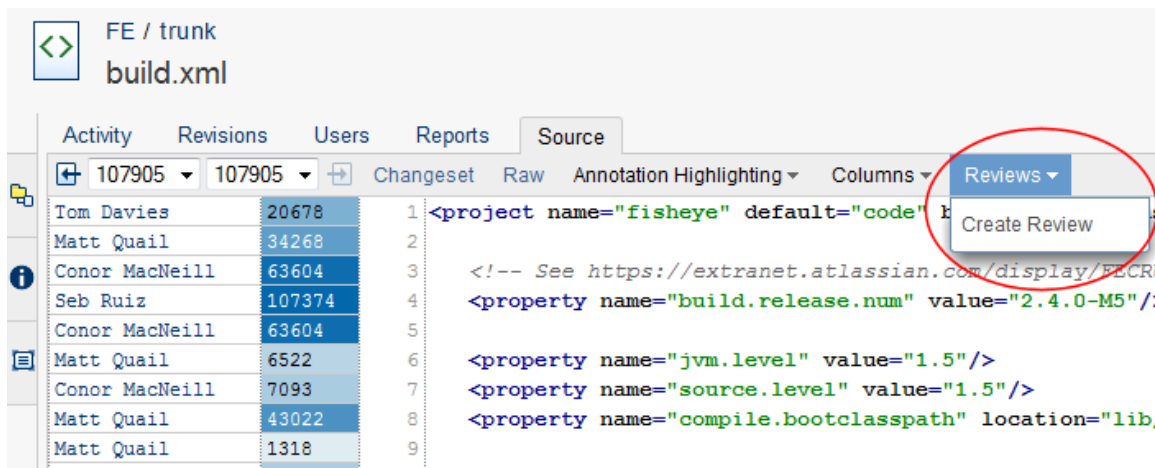
To navigate to the Source view for a file:

1. On the **Source** tab, click the name for a repository.
2. Click the name of the file to be reviewed.
3. Click the **Source** sub-tab.

2. Create the review

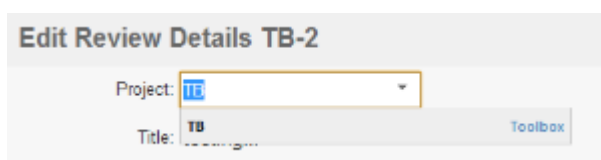
To create the review:

- From the FishEye Source view, choose **Reviews > Create Review**.



3. Choose a project

In the Edit Review Details dialog, choose the project for this review, and add reviewers. Now click **Start Review**.



Creating a review from JIRA

This page describes how to create a Crucible review directly from an issue in [JIRA](#), the Atlassian issue-tracking application.

JIRA must be integrated with *both* FishEye and Crucible before you can do this. See [JIRA Integration in FishEye](#) and [JIRA integration in Crucible](#) for information on how to set this up.

Note that FishEye content appears on the **Source** tab, and Crucible content on the **Reviews** tab, in JIRA.

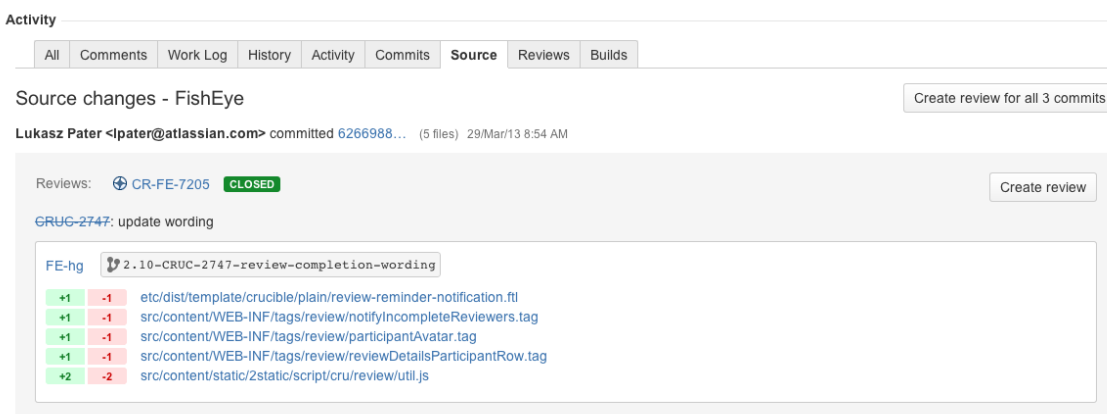
See also [Creating JIRA issues from the review](#).

To create a review from within JIRA:

1. Go to the issue in JIRA that relates to the work to be reviewed.
2. Under 'Activity', click the **Source** tab.
3. Either:
 - a. Click **Create review** to create a new review for a particular changeset.
 - b. Click **Create review for all commits** to include all changesets from the JIRA issue in the new review.
4. If a similar review already exists, you can add the changesets to that.
5. In Crucible, the new review is in edit mode:
 - The content of the changeset becomes the content (i.e. files) to be reviewed.
 - The author of the changeset becomes the [author](#) of the review, if Crucible is aware of this user. Otherwise the [creator](#) of the review becomes the author.
 - The [creator](#) of the review becomes the [moderator](#).
 - The commit log message is used as both the Title and [Statement of Objective](#).
6. Choose **Tools > Start Review**, in Crucible, when you are ready.

The next step is to [add reviewers](#).

Screenshot: Adding a review from within JIRA



Creating a review from a URL

You can set up a URL that you can then click to create a Crucible review.

The format of your URL is as follows:

```
http://localhost:8060/cru/create?csid=%2F%2F&repo=a%2F1234&csid=%2F%2Frepob%2F7583
```

The parameters are as follows:

Parameter	Description	Required?
-----------	-------------	-----------

csid	The changeset ID. You can specify one or more, of the form <code>//repo/csid</code> (where '%2F' is the URL-encoded form of is '/')	Yes
repo	The name of your repository.	Yes (unless supplied in the csid)
title	The title of your new Crucible review.	No
description	The description of your new Crucible review.	No

When you click the URL, you will be prompted to select the relevant [projects](#) if more than one project exists) in which to create your review. A new draft review will then be created, including the following information:

- The content of the changeset becomes the content (i.e. files) to be reviewed.
- The author of the changeset becomes the [author](#) of the review, if Crucible is aware of this user. Otherwise the [creator](#) of the review becomes the author.
- The [creator](#) of the review becomes the [moderator](#).
- The commit log message is used as both the Title (unless you have explicitly defined a title in your URL) and [Statement of Objective](#).

All aspects of the review can be changed. To edit any of the above settings, click the title to see the 'Edit details' screen. Or you can click the [Manage Files](#) tab.

The next step is to [add reviewers](#).

Creating a Snippet Review

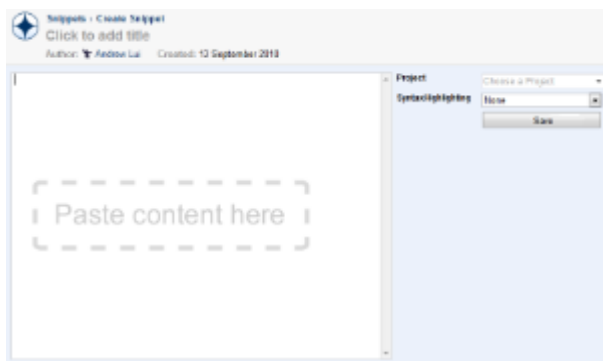
This page explains how to create a simple code review using the Crucible Snippet Review feature. Snippet Reviews are designed to be lightweight ad-hoc code reviews.

To create a snippet review:

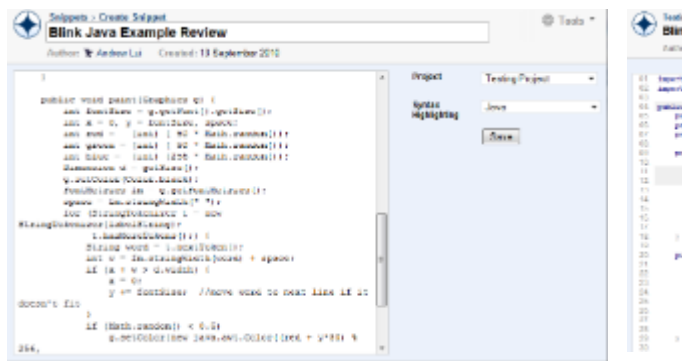
1. Copy the code to be reviewed from the source to your system clipboard.
2. Click **Create snippet** from the **Create review** menu in the Crucible toolbar.
3. Enter details for the snippet review:
 - Paste the code into the panel, where indicated.
 - Click on **Click to add title** near the top to enter a title for your review. If you don't specify a title, one will be automatically created for you.
 - Select a project from **Project**.
 - Select a programming language from **Syntax Highlighting**.
4. Click **Save** to create the snippet review.
5. Invite anyone that you want to participate in the snippet review by sending them the link to the review. The link is the review key, just above the review title. Anyone who is allowed to view the snippet is allowed to comment on it, and can close it.
6. Click **Reply** on any comments to respond.
7. Choose from the **Tools** menu to either close or delete the snippet review. Anyone can re-open, re-review or close snippet reviews, however, only the creator of a snippet review can delete it.

You can see your own snippets, or everyone's snippets, by choosing **Reviews > Review dashboard**. See [Searching Crucible](#) for information about filtering snippet reviews.

Screenshots: Creating a Snippet Review (click to view larger images)



Step 1



Step 2

Creating reviews from the command line

You can use the Review CLI tool to create reviews in Crucible, for patches and commits, directly from your terminal. It takes the uncommitted changes in your workspace and creates a review for them in Crucible. The Review CLI tool may be especially useful if:

- you often create pre-commit reviews
- you want to submit a diff from an external tool for review

You can use the tool on Windows, Linux and Mac OS X, for repositories that are managed in:

- Subversion
- Perforce
- Git
- Mercurial
- CVS

The tool supports Crucible 3.0, and later versions. Python 2.7 must be installed on your local machine (Python 3 is not supported).

You can use the tool to create new reviews, and to update existing reviews with new patches.

Known limitations

- The CLI tool does not yet allow you to create a review for an existing commit.
- The CLI tool takes all the files that have been modified, added or removed in the working copy and submits those for review. It doesn't support choosing only files associated with a specific changeset.
- You can only use the CLI tool to create reviews in projects for which you already have review create [permission](#).

On this page:

- [Installing the Review CLI tool](#)
- [Python](#)
- [Using the Review CLI tool](#)

Related pages:

- [Creating a review](#)
- [Adding content to the review](#)

Installing the Review CLI tool

Download the Review CLI tool from either of the following locations in Crucible:

- When creating a review, click **Pre-commit** in the 'Add Content to Review' dialog, then click **Download review CLI tool**:

- Choose **Settings** from your user menu, and then the **Tools** tab of your user 'Settings' page. Click **Download review CLI tool**:

The script comes pre-configured for the user for the given SCM server.

Copy the script to a location somewhere in your system path, for greatest ease of use.

Python

Python 2.7 is required.

Linux

Python 2.7 should come with your distribution. If not, or if 2.7 isn't installed, you will need to install the appropriate package. Please refer to your package manager for the appropriate version.

Windows

You can install Python by running the latest [Python 2.7 Installer](#) for Windows.

MacOS X

Python 2.7 should come with any modern version of MacOS X. You can also download Python 2.7 from <http://www.python.org/getit/>.

Using the Review CLI tool

To create a review using the Review CLI tool, run the script from a directory under SCM control that has local, uncommitted changes. The changes will be submitted to Crucible for review.

Call the script with the following command:

```
crucible.py <arguments list>
```

The Review CLI syntax is consistent with that for Crucible and FishEye [smart commits](#). Examples of syntax usage are provided in the following table:

Action	Syntax	Result
View usage help	<code>crucible.py --help</code>	Displays the help with descriptions of all the valid commandline arguments
Create a pre-commit review interactively	<code>crucible.py</code>	Gets the patch from the current SCM, prompts for the project and review title, and creates a draft review
Create a pre-commit review with a given project and title	<code>crucible.py -m "the review title" CR-FE</code>	Gets the patch from the current SCM, creates a draft review in the CR-FE project with the given title
Create a pre-commit review with moderator and reviewers	<code>crucible.py CR-FE @matt @joe --moderator ted</code>	Gets the patch from the current SCM, creates a review in the CR-FE project, adds matt and joe as the reviewers and ted as a moderator, starts the review
Create a pre-commit review anchored to a specific repository	<code>crucible.py -r rep01</code>	Creates a pre-commit review interactively, trying to anchor the patch to the given repository
Add a patch to a review	<code>crucible.py CR-FE-1204</code>	Gets the patch from the current SCM and adds it to the review CR-FE-1204
Create a review from diff output	<code>hg diff crucible.py</code>	Creates a pre-commit review interactively, taking the output of the first command as a patch
Create a review from a diff file	<code>crucible.py -f file.diff</code>	Creates a pre-commit review interactively, taking the output of the patch from the given file

Adding content to the review

This page explains how to add content, such as files and changesets, to a Crucible review. The procedure depends on whether you are setting up a post-commit or pre-commit review:

- **Post-commit reviews** – You want code changes that have already been committed to the SCM to be reviewed. In Crucible, you can browse and search for files or changesets in the SCM, which you then add to the review. Crucible can suggest files that should be considered for review, based on recent activity.
- **Pre-commit reviews** – You want code changes that have not yet been committed to the SCM to be reviewed. In Crucible, you need to [add patch files to a pre-commit review](#).

Related pages:


- [Creating a review](#)
- [Iterative reviews](#)
- [Choosing reviewers](#)
- [Performing the review](#)

Note that Crucible supports 'iterative' reviews – for both post-commit and pre-commit reviews you can update the review with new versions of files, and changesets, created after the review was started.

On this page:

- [General procedure](#)
- [Selecting changesets for review](#)
- [Selecting repository files for review](#)
- [Searching for files to review](#)
- [Adding patch files to a pre-commit review](#)
- [Adding attachments to a review](#)
- [Choosing the way files are added to the review](#)

General procedure**To add content to a review:**

1. Log in to FishEye/Crucible and either;
 - Create a new review, as described on [Creating a review](#), or
 - Open an existing review, for which you are the [creator](#) or [moderator](#), and click the Add Content () button.
2. In the 'Add Content to Review' dialog, click an option for how you wish to add content to the review, and then follow the instructions in the relevant section below:

Post-commit reviews	
Browse Changesets	Allows you to choose changesets from a Source Code Management (SCM) repository. See Selecting changesets for review below.
Explore Repositories	Allows you to browse for files in a SCM repository. This option only appears when FishEye is installed. See Selecting repository files for review below.
Search for Files	Allows you to search a SCM repository for files or changesets. This option only appears when FishEye is installed. See Searching for files to review below.
Pre-commit reviews	
Pre-commit	Allows you to upload patch files to a review. See Adding patch files to a pre-commit review below.
All reviews	
Attachments	Allows you to upload any file to a review, including binary files and files outside of a SCM repository. See Adding attachments to a review below.

3. Click **Done** to save your changes, without starting the review.

Selecting changesets for review

Click **Browse Changesets** in the 'Add Content to Review' dialog to add SCM changesets to your review.

By default, Crucible presents a list of the author's changesets in reverse chronological order. You can see other changesets by changing the options at the top of the dialog:

Repository	A list of the repositories that contain the files that can be reviewed. If the repository you require is not in the list then it has not been added to FishEye. Please contact your Crucible/FishEye administrator.
Author	A list of all the authors who have made changes within the repository. When creating a review, this will default if possible to the username of the user authoring this review and will therefore show their changesets.
Branch	This will only show files and recent changes on that branch from the repository set above.
Commit message	Filter for specific commit messages.
Add to Review as	Choose the form of the review. See Choosing the way files are added to the review below.
Scroll to changeset	Allows you to jump to a particular change set by entering its title and pressing Enter.

Select the checkbox next to a changeset ID to add the entire changeset. Note that:

- You cannot add individual file revisions to a review, although you can remove them once the changeset is added. Click **Remove all revisions from review** to remove all.
- You cannot add changesets that are entirely svnprops changes (i.e. it has no non-metadata changes). For details, see [How do I force reviews to include SVN property changes?](#)

Add Content to Review TEST-323

Repository:
Branch:
Add to Review as:

Author:
Commit message:

Sunday 20 Mar 2011

☐

Matthew Watson

☒ 40930 added 1 file trunk FOUR-24
Moved to atlassian account on bitbucket

☐

☒ 40929 added 1 file trunk FOUR-24
Moved to atlassian account on bitbucket

☐

☒ 40928 added 1 file trunk
Moved to atlassian account on bitbucket

☐

☒ 40927 added 1 file trunk
Moved to atlassian account on bitbucket

☐

☒ 40926 added 1 file trunk
Moved to atlassian account on bitbucket

☐

☒ 40925 changed 1 file trunk
Moved to atlassian account on bitbucket

Selecting repository files for review

Click **Explore Repositories** on the 'Add Content to Review' dialog to browse the SCM repositories for files to add to your review:

- By default, the folders are sorted by path name but they can also be sorted by last-commit or first-commit.
- To select a particular revision of a file, select **Load full history...** from the revision number list. This will refresh the available options in the list.

Note that:

- Empty folders are greyed out.
- The 'Cog' menu has options to **Hide empty directories** and to **Hide deleted files**.

The screenshot shows the 'Add Content to Review TEST-323' dialog. At the top, there's a 'Repository:' dropdown set to 'atlassian' and an 'Add to Review as:' dropdown set to 'Diffs'. Below this is a 'Files in atlassian/' section with a tree view on the left showing a hierarchy of folders like 'plugins/', 'chat/src/', 'main/', 'resources/templates/', 'test/', etc. On the right, a table lists files with columns 'NAME' and 'REV'. The files listed are 'admin.vm' and 'config.vm', both with revision '39123 by jhatherly'. At the bottom, there are buttons: 'Add More Content', 'Edit Details', 'Abandon Review', 'Start Review', and 'Done'.

Searching for files to review

Click **Search for Files** on the 'Add Content to Review' dialog to search for files to add to your review.

⚠ Search is only available when using **FishEye** with Crucible.

Adjust the search filters to find the files you need. If the simple filters are not enough, consider using **EyeQL queries**.

Read more about [searching your repositories](#) in the FishEye documentation.

The screenshot shows the 'Add Content to Review TEST-323' dialog with the search functionality. The 'Repository:' dropdown is still 'atlassian'. Below the file tree, there's a 'Search in atlassian/' section. On the left, 'Search Criteria' includes options like 'Search all directories' (unchecked) and 'Only most recent versions' (checked). There are input fields for 'Comment:', 'Contents:', 'Added text:', 'Deleted text:', and 'File name:'. A 'Search' button is at the bottom of this section. On the right, 'Search Results' shows a list of 82 results. The first few results are: '1 by admin (7 years and 5 months ago) | show diffs', '15892 by sleberrigaud (5 years ago) | show diffs', '15893 by sleberrigaud (5 years ago) | show diffs', '15894 by sleberrigaud (5 years ago) | show diffs', and '15896 by sleberrigaud (5 years ago) | show diffs'. At the bottom, the same set of buttons as the previous screenshot is present: 'Add More Content', 'Edit Details', 'Abandon Review', 'Start Review', and 'Done'.

Adding patch files to a pre-commit review

Click **Pre-commit** on the 'Add Content to Review' dialog to add previously created patch files to a pre-commit review.

Choose an upload method:

Select file from the file system	Charset – click the edit icon (✎) to choose the character set being used. UTF-8 is the default.
	Choose File – click to browse for the file that you want to add to the review.
Paste text from clipboard	Patch text — paste your copied text in this text area.

For more information see [Creating patch files for pre-commit reviews](#).

Add Content to Review TEST-400

Upload patch manually for pre-commit review

Upload methods ☒ Select file from file system (max file size: 10MB)
☐ Paste text from clipboard

Charset [UTF-8](#) ✎

File [Choose File](#) No file chosen

[Upload](#)

Patch anchoring

A short-coming of patches for code review is the reduced context around code changes because the patch does not include all lines of code from the file. Crucible 'patch anchoring' overcomes this by searching for the relevant file content in the connected repositories, and automatically anchoring the patch to the trunk or the branch with the most recent commit activity. Crucible can then seamlessly display more context, as required.

See [Using Crucible patch anchoring](#) for more information.

Adding attachments to a review

Click **Attachments** on the 'Add Content to Review' dialog to add attachments to your review.

You can attach additional files to be used in the review, including binary files, images or code files that are not stored in a version control repository.

Charset	Click to choose the character set being used. UTF-8 is the default.
Choose File	Browse for a file that you want to add to the review.

Upload	Browse for a file that you want to use as the base of a diff with a previously attached file.
---------------	---

To add another iteration of a file, upload a different version of the file with the same filename. It will be added as a new version.

Add Content to Review TEST-323

Charset: UTF-8
 File (max 10MB): [Choose File](#) No file chosen
[Upload another file as the base of a diff](#)
[Upload](#)

Existing Attachments:

☒ Edge.java (1) pwatson

[Add More Content](#)
[Edit Details](#)
[Abandon Review](#)
[Start Review](#)
[Done](#)

Choosing the way files are added to the review

When adding files to a review, you can set the form of review taking place in the **Add to Review as** list:

Diffs	This is the default. This allows you to add multiple revisions of a file to one review and compare them in-review, in context with the change history.
Whole Files	Adds the entire file with all content, rather than just a diff with context.
Diffs to Last Branch Point	This adds files with a diff to the revision each file was last branched.
Diffs to Last Reviewed Version	This adds files with a diff to the last reviewed changeset.
Diffs to... (a particular revision)	This allows you to specify the file to show the differences between two specific versions of a file.

Click **Done** once you have finished selecting the required files. The files will be added to your review and the review will be displayed.

Iterative reviews

Crucible supports iterative (cumulative, or incremental) reviews for both post-commit and pre-commit reviews. This allows you to update the review with new versions of files, and changesets (for post-commit reviews) or patches (for pre-commit reviews) that have been created after the review was started.

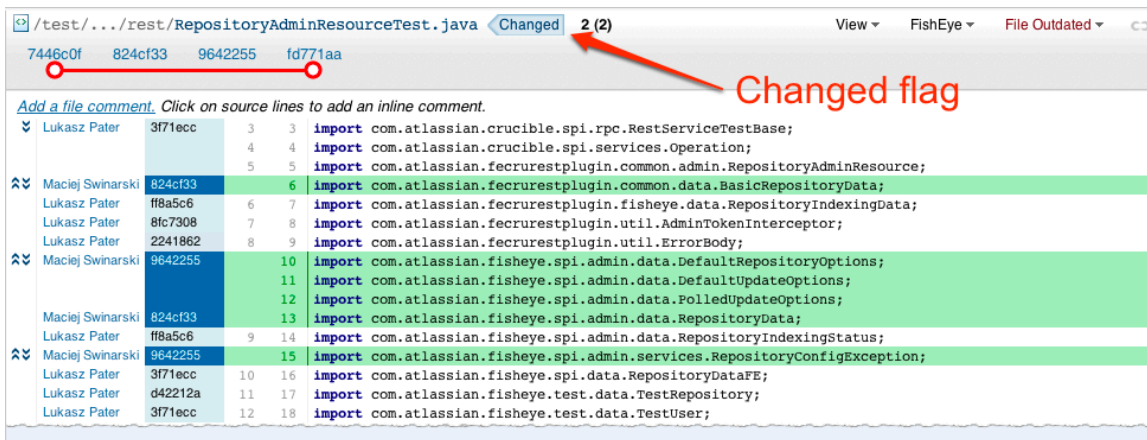
Iterative reviews allow your team to discuss changing code in the context of a single review. This lets the reviewers see all the related changes together, and to more easily keep track of comments and defects.

On this page:

- [Iterative post-commit reviews](#)
- [Iterative pre-commit reviews](#)
 - [Initial patch upload](#)
 - [Iterative patch uploads](#)
- [Viewing diffs](#)

Iterative post-commit reviews

To set up an iterative post-commit review, you [create a review](#), and [add content](#) to it, in the usual way. Crucible automatically recognises when files under review have been updated in the repository, and provides the option to add the revision to the review.



See [Viewing diffs](#) below for information about the slider and diffs.

Iterative pre-commit reviews

Pre-commit reviews make use of patch files that are uploaded to a review. Crucible allows revisions of patch files to be uploaded to the review, and can display diffs for files in the patches. This allows your team to set up and perform iterative pre-commit reviews.

See [Creating patch files for pre-commit reviews](#).

Initial patch upload

When uploading the initial patch for a review, Crucible must be able to anchor the patch to a repository if you subsequently want to upload patch iterations. If Crucible is unable to anchor the patch to a repository, you will only be able to upload the patches as separate files.

You upload the initial patch for a review in the usual way – see [Adding content to the review](#).

Iterative patch uploads


When you add a new iteration of the patch to the review, you can choose which previously uploaded patch it is a revision of. The new patch must be anchored to the same repository as an existing patch.

Note that you cannot add unanchored patches, even if they include full-context diffs. You can include an unanchored *file* in the anchored patch, however Crucible is unable to provide full context for that.

Add Content to Review CR-10

Upload patch manually for pre-commit review

Upload methods ☒ Select file from file system (max file size: 10MB)
☐ Paste text from clipboard

Charset UTF-8 

File No file chosen

Existing patches in CR-10

CR-10-patch-0.txt (8 minutes ago) - 2 iterations

▼ ☒ **CR-10-patch-0.txt:** (anchored to svnsample1 : /)

- ☒ trunk/file
- ☒ trunk/copied-and-modified
- ☒ trunk/to-be-modified
- ☒ trunk/moved-and-modified
- ☒ trunk/to-be-moved-and-modified
- ☒ trunk/copied-and-modifie2
- ☒ trunk/added
- ☒ trunk/to-be-removed
- ☒ Mainline/foo

► ☒ **CR-10-patch-1.txt:** (anchored to svnsample1 : /)

Viewing diffs

Crucible allows the reviewer to see the different revisions of a file within the same review. The 'slider' in the file view allows you to interactively select which revisions are compared in the displayed diff, and to see the full source content. Comments are connected to, and displayed with, a specific revision. This allows you to review every change that has occurred on a code file over a given range of commits, and lets you see the evolution of the file through various revisions (all within one Crucible review).

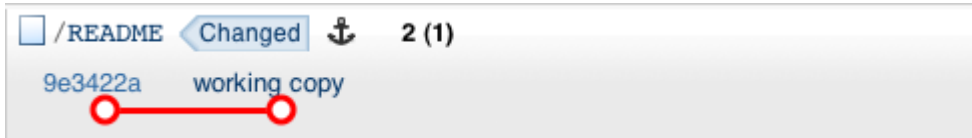
These screenshots show how, for a post-commit review, you can drag the slider 'handles' so as to display just the changes in the last commit:





Drag the 'handles' to the same commit to see the full source of that version of the file.

When viewing patch files in a pre-commit review, the slider displays the diff for the selected iterations, in a similar way to that for post-commit reviews. Each patch iteration is referred to as a 'working copy'.



Creating patch files for pre-commit reviews


This page describes how to create patch files from your local repository, how to attach them to a Crucible review and how to use Crucible's Patch Anchoring to retrieve more context from the original file.

A patch file is a portion of a source code file that contains the code changes that you have made – it's a diff that shows the differences between your working copy and the base revision.

A pre-commit review in Crucible allows a developer's code changes, in the form of a patch file, to be reviewed before those changes are committed to the SCM. A typical scenario is where the developer does not have write access to the repository. The developer creates the patch file and adds it to a Crucible review. Once reviewed, the patch is either committed to the repository or is sent back to the author.

You can create the patch file from your local repository:

- using tools in your IDE – described below
- using repository command-line tools
- using the Crucible Review CLI tool – see [Creating reviews from the command line](#)

 To create a patch in Perforce, you must ensure you have set P4DIFF to point to a GNU-compatible diff program.

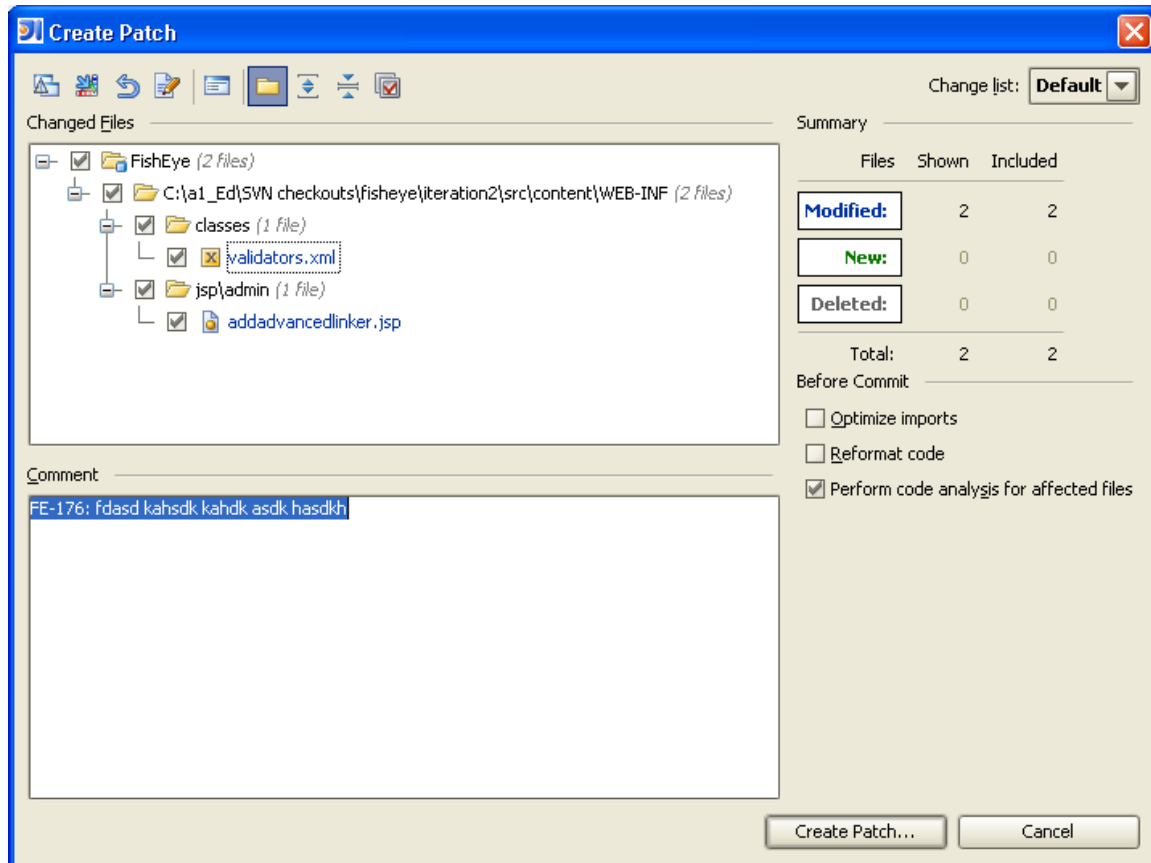
As an enhancement, Crucible's [patch anchoring](#) adds context:

- By default, patch files will only show a few lines of code surrounding each change, rather than the entire file and its changes. This feature overcomes this limitation.
- Note however that anchoring is done as an afterthought, and can be reverted.

On this page:

Creating a patch file from IntelliJ IDEA 7.0

1. Select a parent folder, sub-folder or file that you have altered, in the Project tool window.
2. Select **Version Control > Create Patch**:

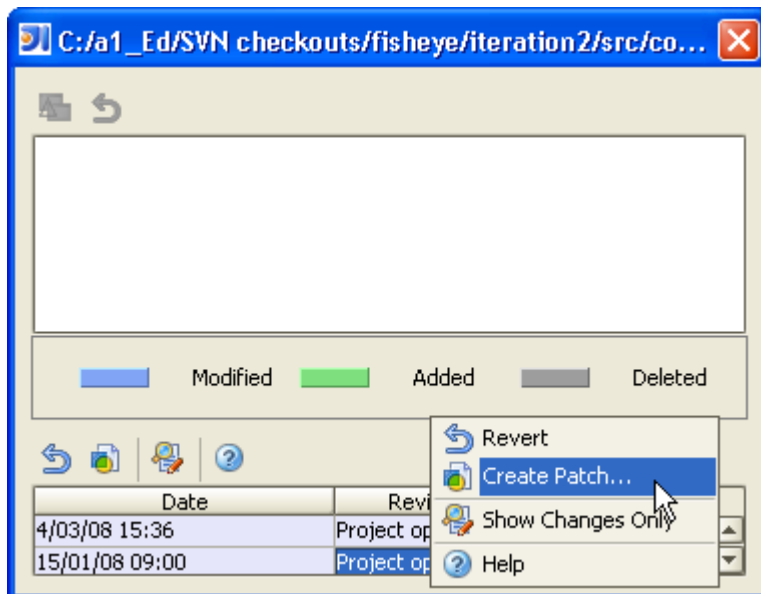


3. Click **Create Patch**, choose a location to save the patch file to, and click **OK**.

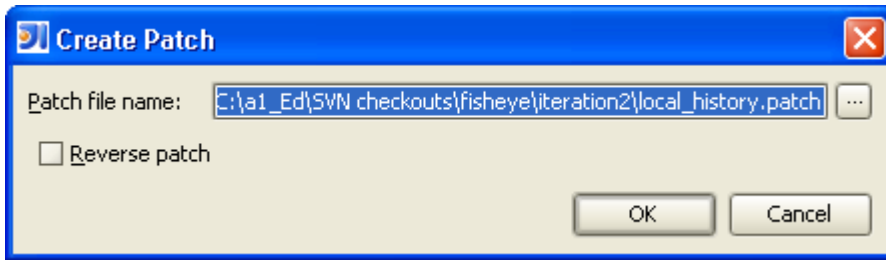
If you do not have the Create Patch command available in IDEA

If you have not configured version control in IDEA, you may not have the **Create Patch** option available. If so, use the following steps to create a patch file in IDEA:

1. Select a parent folder, sub-folder or file that you have altered in the Project tool window, right-click it and choose **Local History > Show History**.



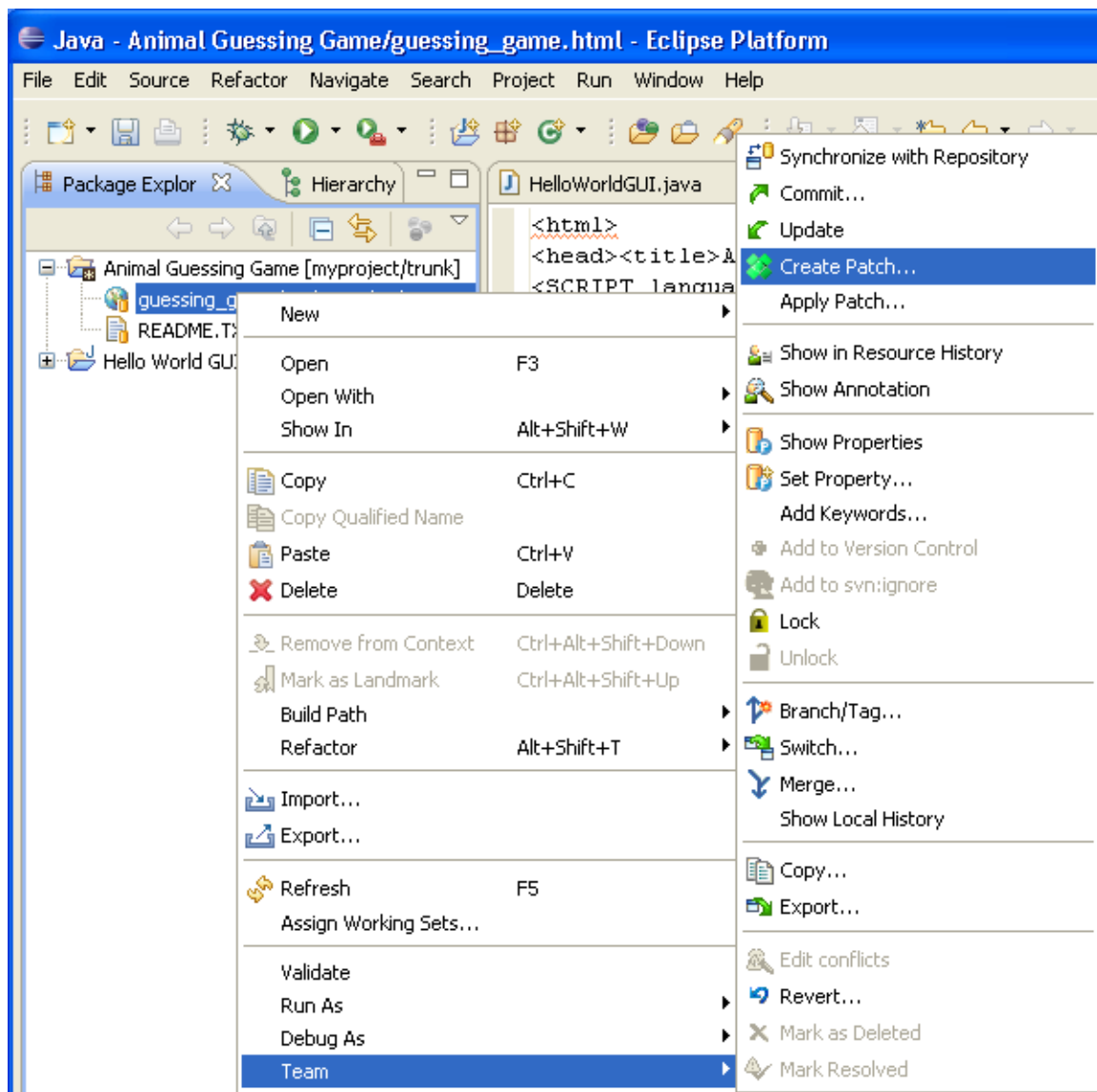
2. In the Local History view, right-click the revision number, and choose **Create Patch**.



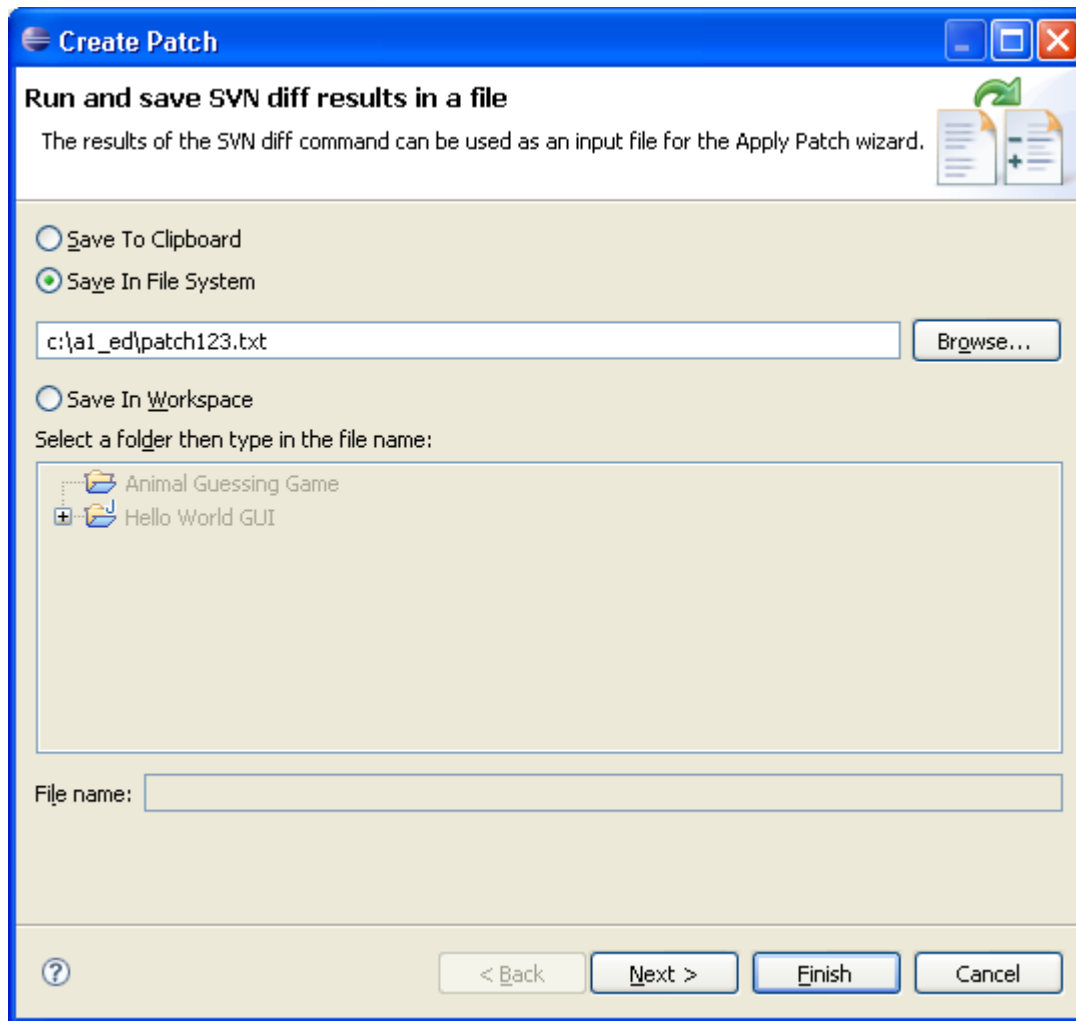
3. In the Create Patch dialog, choose a location for the patch file and a file name, then click **OK**.

Creating a patch file in Eclipse 3.3.1.1

1. Find the parent folder, sub-folder or file that you have altered, right-click it and choose **Team > Create Patch**.




2. In the Create Patch window, choose a location on your computer and type an appropriate file name (the file format is plain text):




Creating a patch file from the command line

Use the following commands to create patch files from the respective SCMs. `patch.txt` represents your name for the new patch file.

SCM	Command	Notes
CVS	<code>cvs diff -Nu > patch.txt</code>	Creates a patch file with around three lines of code, before and after each change. Revision information is included by default, so if you have FishEye, you may be able to anchor the patch to get full context.
	<code>cvs diff -N -U 10000 > patch.txt</code>	Creates a patch file that shows all code in the file. 10000 refers to the number of code lines before and after each change that are included in the patch.

SVN	<code>svn diff > patch.txt</code>	<p>Creates a patch file with around three lines of code, before and after each change.</p> <p>Revision information is included by default, so if you have FishEye, you may be able to anchor the patch to get full context.</p> <p> <code>svn diff</code> does not print any information about files copied in the workspace.</p>
	<code>svn diff --diff-cmd diff -x "-U 10000" > patch.txt</code>	<p>Creates a patch file that shows all code in the file.</p> <ul style="list-style-type: none"> The built-in diff feature in <code>svn diff</code> does not support specifying lines of context, so you must tell Subversion to use an external diff command. The second <code>diff</code> in the command needs to be the name of your external diff command. You might need to specify the full path to that command, such as <code>/usr/bin/diff</code>. On the Windows platform, you may need a Unix-like emulator such as Cygwin, and install the optional diff command for that.
Perforce	<code>p4 diff -dcu > patch.txt</code>	<p>Creates a patch file with around three lines of code, before and after each change.</p> <p>Revision information is included by default, so if you have FishEye, you may be able to anchor the patch to get full context.</p> <p>The <code>-dcu</code> option provides a combination of "context format" and "unified format". It provides the diff in a standard unified diff format (which we need to parse the diff) as well as revision information (which we need to anchor to FishEye).</p>

	<pre>diff -u /dev/null path_to_added_file >> patch.txt</pre>	<p>Example of using GNU <code>diff</code> to append files individually to the patch in UNIX.</p> <p>Since Perforce diffs do not include added and deleted files, you should use <code>p4 opened</code> to find such files.</p> <p>Replace <code>path_to_added_file</code> with the actual path of your added file. You can follow a similar procedure with deleted files using <code>p4 print</code> to extract the previous version of the file.</p> <p> Perforce does not directly support creating patches that include all lines of code. A workaround is to check out 'before' and 'after' versions of the file, and use GNU Diff to create a patch between the two files. That file could then be loaded into a Crucible review.</p>
Mercurial	<pre>hg diff > patch.txt</pre>	<p>Creates a patch file with around three lines of code, before and after each change.</p> <p>Revision information is included by default, so if you have FishEye, you may be able to anchor the patch to get full context.</p> <p>If you use Git-style diffs (<code>--git</code>), the revision information will not be provided. This means that we cannot anchor the patch to a FishEye repository.</p>
Git	<pre>git diff > patch.txt</pre>	<p>Creates a patch file with around three lines of code, before and after each change.</p> <p>Revision information is included by default, so if you have FishEye, you may be able to anchor the patch to get full context.</p>

Using Crucible patch anchoring to automatically add full context

Crucible's Patch Anchoring feature allows you to add a regular patch (showing only a few lines of context) to a review. Then, Crucible will automatically search for the relevant file content in the connected repositories. When it finds the files, it will seamlessly add in more context from the files so that you can view all of the lines of code (greatly enhancing the review process).

To use patch anchoring:

1. Click **Create review** in the Crucible header.
2. Click **Pre-commit**. In the dialog that appears, click **Choose File** to locate your file, then **Upload**. Crucible will now search for matches in the files in its database. Crucible will analyse all the paths in the patch, find the branches containing all those paths, then anchor the patch to the trunk or the branch with the most recent commit activity.

i Crucible makes a 'best guess' in its processing – you should check that it has anchored the patch to the correct location in your repository.

- You can click **Edit** to change the anchoring, by choosing a new match or removing the anchor. You can change the anchoring later, after the review is live.
- Start the review. When viewing the diffs, you will be able to choose more than three lines of context from the **View** menu.

Screenshot: Crucible Patch Anchoring

Add Content to Review TEST-56

Upload Method: ☒ Select file from file system (max file size: 10MB)
☐ Paste text from clipboard

Charset: US-ASCII

File:

Existing Patch Files:

- ☒ CRUC-2777__UI_to_anchoring_patches.patch: (anchored to FE : trunk/) Edit
- ☒ src/java/com/cenqua/crucible/actions/create/AddPatchAction.java
- ☒ src/content/WEB-INF/jsp/crucible/create/anchorPatchResp.jsp
- ☒ src/java/com/cenqua/crucible/actions/create/AnchorPatchAction.java
- ☒ src/content/WEB-INF/jsp/crucible/create/create_selectPatch.jspf
- ☒ src/java/com/cenqua/crucible/view/PatchDO.java
- ☒ src/java/com/cenqua/crucible/revision/source/PatchSource.java
- ☒ src/content/WEB-INF/classes/xwork-crucible.xml

Screenshot: Editing the settings for Patch Anchoring

Author & Moderator Reviewers

Details

Participant	Role	Time Spent	Comments
Edwin Dawson	Author & Moderator	2m	
Geoff Crain	Reviewer - 0% complete		
Total		2m	0

Files: 7

Patches:

[CRUC-2777 UI to anchoring patches.patch](#): (anchored to):
) [Cancel](#) | [Remove Anchor](#)

Objectives [Edit](#)

Please ensure you add an acceptance test to your review comments

Screenshot: Viewing more than three lines with Patch Anchoring

/src/content/.../classes/xwork-crucible.xml Changed View

49400 working copy

151 151 <action name="edit-patch" class="com.cenqua.crucible.actions.create.
 152 152 <interceptor-ref name="fileUpload">
 153 153 <param name="maximumSize">10485760</param>
 154 154 </interceptor-ref>
 155 155 <interceptor-ref name="noValidation">
 156 156 <result name="success" type="dispatcher">/crucible/edit</result>
 157 157 <result name="successRedirect" type="dispatcher">/crucible/create</result>
 158 158 <result name="error" type="dispatcher">/crucible/create</result>
 159 159 </action>
 160 160 <action name="anchor-patch" class="com.cenqua.crucible.actions.create.
 161 161 <result name="success" type="dispatcher">/crucible/edit</result>
 162 162 <result name="error" type="dispatcher">/crucible/create</result>
 163 163 </action>
 164 164 <action name="edit-upload" class="com.cenqua.crucible.actions.create.
 165 165 <interceptor-ref name="fileUpload">
 166 166 <param name="maximumSize">10485760</param>
 167 167 </interceptor-ref>
 168 168 <interceptor-ref name="noValidation">
 169 169 <result name="success" type="dispatcher">/crucible/edit</result>
 170 170 <result name="successRedirect" type="dispatcher">/crucible/create</result>
 171 171 <result name="error" type="dispatcher">/crucible/create</result>
 172 172 </action>

View

- No Context
- 3 Lines
- 20 Lines
- ☒ 100 Lines
- Full Context
- Show All Whitespace
- ☒ Hide Insignificant Whitespace
- Hide All Whitespace
- ☒ Ignore Blank Lines
- ☒ Unified Diff
- Side by Side Diff

Choosing reviewers

This page explains how to add reviewers to a new review, after it has been created.

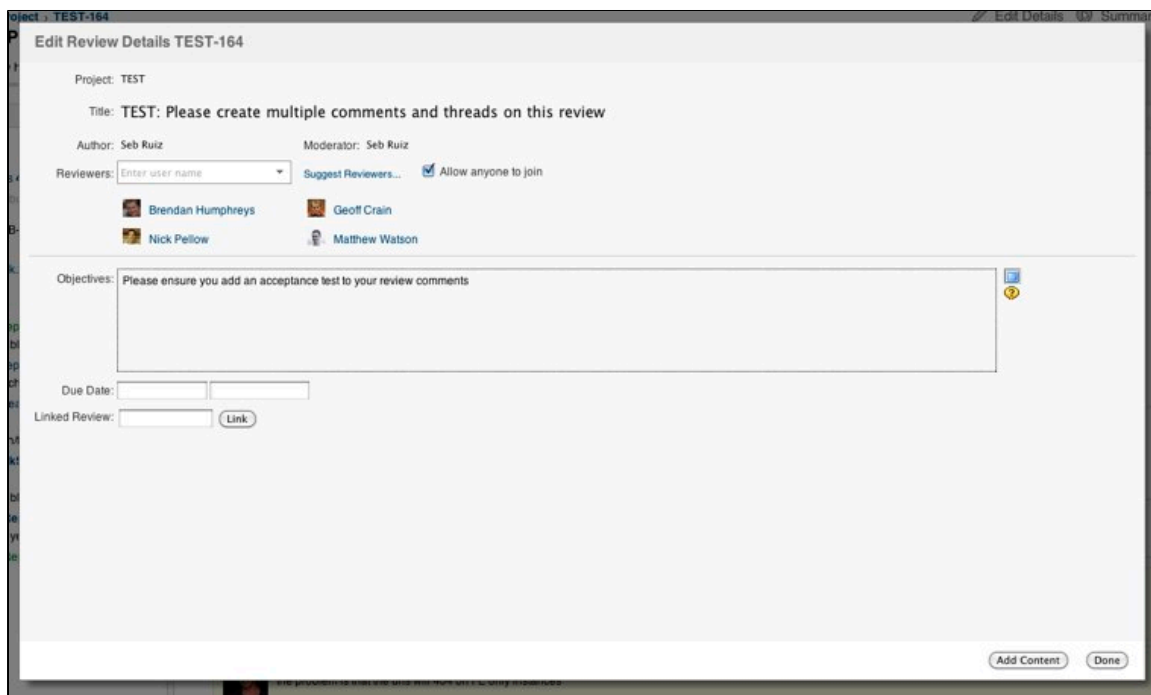
See [Creating a review](#) for information about creating reviews.

On this page:

- [Entering basic information](#)
- [Adding and removing reviewers](#)
 - [Adding users to a review](#)
 - [Suggested reviewers](#)
 - [Inviting unregistered users to the review](#)
 - [Removing reviewers](#)
- [Checking the draft and starting the review](#)
- [Next steps](#)

Entering basic information

Once a review has been created, the Edit Review dialog opens:



In the Edit Review dialog, the author enters information needed for the review. This includes entering a title and description for the review, a due date and the key for a related JIRA issue (if any). The project, moderator and author are pre-selected (for this example, the author should select himself as a moderator).

You must also select reviewers.

Adding and removing reviewers

Before a review can be issued to reviewers, you must decide who can review it. When adding reviewers, you can add registered users immediately. The usernames will auto-complete, showing partial matches before you finish typing. You can quickly select one of the matches shown with the keyboard arrow keys, pressing Enter or Tab to add them to the review.

In addition, you can easily invite external users who do not yet have accounts in Crucible to take part by typing their email address into the **Reviewers** field.

Adding users to a review

Select users by typing names into the text field under **Reviewers**. Crucible will show a list of matches. Press Enter to select one after each entry.

Clicking **Done** will save the review as a draft for later issue.

You can also decide to allow any registered user to add themselves as a reviewer in the review. To enable this option, select **Allow anyone to join**.

Suggested reviewers

Crucible will automatically suggest reviewers, by analysing the users that have contributed to the files you've selected and also don't have a lot of open reviews. You can easily pick reviewers from the list of suggestions by clicking.

Inviting unregistered users to the review


You can invite users who don't have a Crucible account to join a review.

 There are two prerequisites:

1. FishEye's SMTP server must be configured and capable of sending email.
2. The setting **Public Signup** must be set to **ON**. Go to the Admin area and click on **Authentication**, under 'Security Settings', and look in the 'Built-in' section.

To invite an external user to a review:

1. Create a new review.
2. On the **Create New Review** screen, simply type the user's email address into the **Reviewers** field, then press Enter to select.
3. Click Save to save the draft review. The users are not sent any information at this time.
4. When you click **Start Review**, this is when all email invites and notifications are sent out.
5. The external user will receive an email address from the Crucible server, containing a special URL that they can visit.
6. When the user loads the URL they received via email, they are taken to a special Crucible log in screen. On this screen, the user can create a new account that will be linked to the current email address. (If they already have a Crucible account under another address, they can simply sign-in with that username and password.)
7. When the user has successfully created a Crucible account, they will be able to access the review(s) associated with their email address and take part.

 You can enter multiple addresses separated by commas, allowing you to paste in a list of email addresses from your favourite email application.

When finished, the author clicks **Save**. The review will now be created in a draft form.

Removing reviewers

You can remove reviewers who no longer need to contribute to the review.

Click **Edit Details** to open the 'Edit Review Details' screen, hover over the reviewer's name, and click the cross.


Edit Review Details TEST-324



Project: TEST

Title: **[maven-release-plugin] prepare for next development**

Author: Paul Watson

Reviewers: [Suggest reviewers...](#) ☒ Allow anyone to join

 Nathan Pye

 James Dumay x 

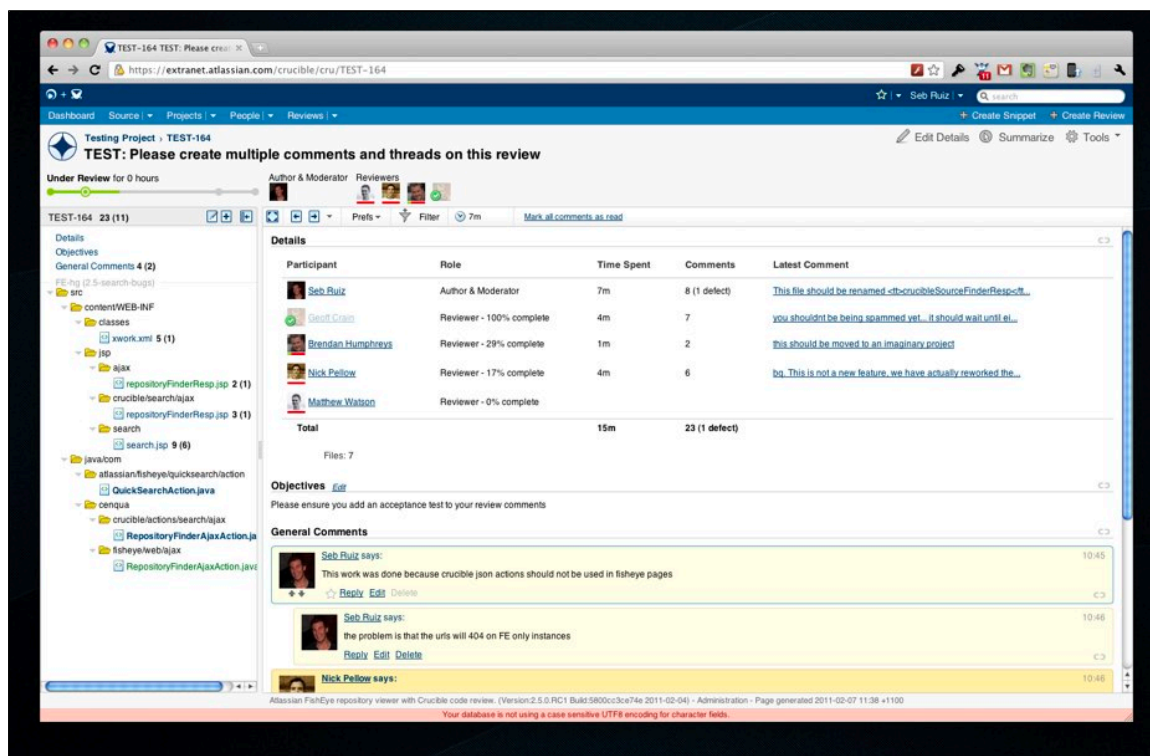
Objectives: Please ensure you add an acceptance test to your review comments

Checking the draft and starting the review

The draft review opens. In the draft stage, the author can check the contents of the review files to ensure they are correct and put in any notes for reviewers as comments. During the draft phase, no notification email is sent out to reviewers. Once the author is finished with the draft phase, he clicks **Start Review**.






The review will now be started and notification email will go out to all participants. Crucible will now send out an email notification to all the participants. This lets them know that the review is under way and prompts them to take action, providing a URL for direct access to the review. (You can also [subscribe to an RSS feed](#).)






Screenshot: A newly created Crucible review



Testing Project: TEST-164
TEST: Please create multiple comments and threads on this review

Under Review for 0 hours


Author & Moderator:  Reviewers:    


Participant	Role	Time Spent	Comments	Latest Comment
 Seb Ruiz	Author & Moderator	7m	8 (1 defect)	This file should be renamed <th-crucibleSourceFinderResp>...
 Geoff Crain	Reviewer - 100% complete	4m	7	you shouldn't be being spammed yet... it should wait until ei...
 Brendan Humphreys	Reviewer - 29% complete	1m	2	this should be moved to an imaginary project
 Nick Pellow	Reviewer - 17% complete	4m	6	bg. This is not a new feature, we have actually reworked the...
 Matthew Watson	Reviewer - 0% complete			
Total		15m	23 (1 defect)	


Files: 7

Objectives: [Edit](#)
Please ensure you add an acceptance test to your review comments

General Comments: [Edit](#)

 Seb Ruiz says:
This work was done because crucible json actions should not be used in fisheye pages
10:45
[Reply](#) [Edit](#) [Delete](#)

 Seb Ruiz says:
the problem is that the urls will 404 on FE only instances
10:46
[Reply](#) [Edit](#) [Delete](#)

 Nick Pellow says:
10:48
[Reply](#) [Edit](#) [Delete](#)

Atlassian FishEye repository viewer with Crucible code review. (Version: 2.5.0.RC1 Build: 5800cc3ca74e 2011-02-04) - Administration - Page generated 2011-02-07 11:38 +1100
Your database is not using a case sensitive UTF8 encoding for character fields.

Next steps

You can now begin [Performing the review](#).

If you have a moderator controlling your review process, you can move onto [Starting a review](#).

Performing the review

This page describes how to find and manage the Crucible reviews that relate to you.

On this page:

- [Browse your reviews on the Dashboard](#)
- [Browse all reviews on the 'Reviews' tab](#)
- [When files change during a review](#)
- [Next steps](#)

Deciding what needs to be reviewed

The 'Statement of Objective' is a brief description of what the review is intended to achieve. Crucible does not dictate how or what to review. It simply provides a mechanism to record comments.

Browse your reviews on the Dashboard

When you first start Crucible, the Dashboard is displayed, which shows your current reviews and other activity related to you.

Use the Dashboard to manage your reviews. Read the overview on [filtering your view](#).

Active reviews are listed on each [reviewer's](#) dashboard under the default **To Review** filter. Reviews are listed under **Out for Review** until all reviewers indicate they are complete. The reviews then move to the **To Summarize** list.

Read more about using the [Dashboard](#).

Browse all reviews on the 'Reviews' tab

All reviews that involve you in any role are listed when you click **Inbox** or **Outbox** under the **Reviews** menu. For example, choose **Reviews** > **Inbox** to see reviews that don't require further action from you, but are still active.

If email notifications are enabled (see [SMTP settings](#) in the FishEye documentation), reviewers will receive an email with information about the review. Click the link within the email to go directly to the review.

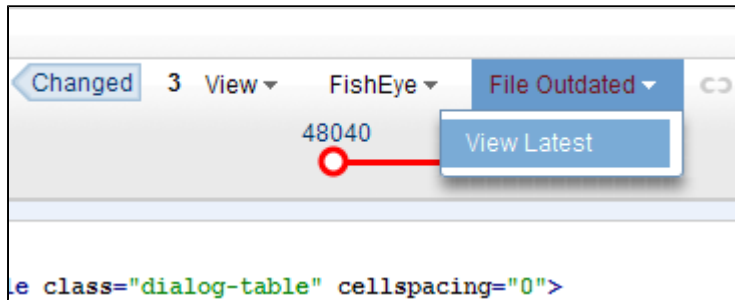
When files change during a review

If a file in the repository changes during a review, Crucible will visually alert you by showing the **File Outdated** menu, when viewing the file:



From the **File Outdated** menu, you can choose to view the latest revision of the updated file, or add the latest revision to the review:

Screenshot: 'File Outdated' menu



Next steps

- [Starting a review](#)
- [Adding comments](#)
- [Changeset discussions](#)
- [Flagging defects](#)
- [Creating JIRA issues from the review](#)
- [Viewing reports](#)
- [Completing your review](#)
- [Sending a review's comments via Email](#)
- [Using JIRA integration in Crucible reviews](#)
- [Using the Review History Dialog](#)
- [Using RSS feeds in Crucible](#)
- [Using Wiki Markup in Crucible](#)
- [Tracking Crucible Review Metrics](#)

Starting a review

On this page:

- [Starting a review](#)
- [Editing a review once started](#)

Starting a review

Starting a review simply means formally starting it and inviting people to take part.

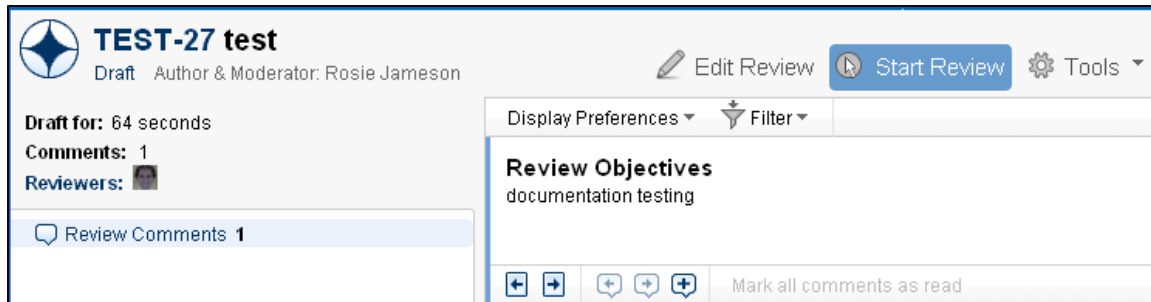
Once you have [selected the reviewers](#), the next stage is to notify the [reviewers](#) and the [author](#) (if different to the [moderator](#)) that they can start reviewing. The review has been in 'Draft' [state](#) until this point. Only the moderator has the permission to start a review.

To start the review:

- If you are the moderator of the review, click **Start Review**.
- If you are not the moderator of your review, click **Send to Moderator**. This changes the [state](#) to 'Requires Approval' and notifies the moderator. The moderator can change any aspect of the review before starting it.

Once the review has been started, the review [state](#) becomes 'Under Review'.

Screenshot: Starting a Review



i Note that only people with the 'Approve' permission can start a review.

Editing a review once started

You can quickly add files to, or remove files from, the content of a review at any time:

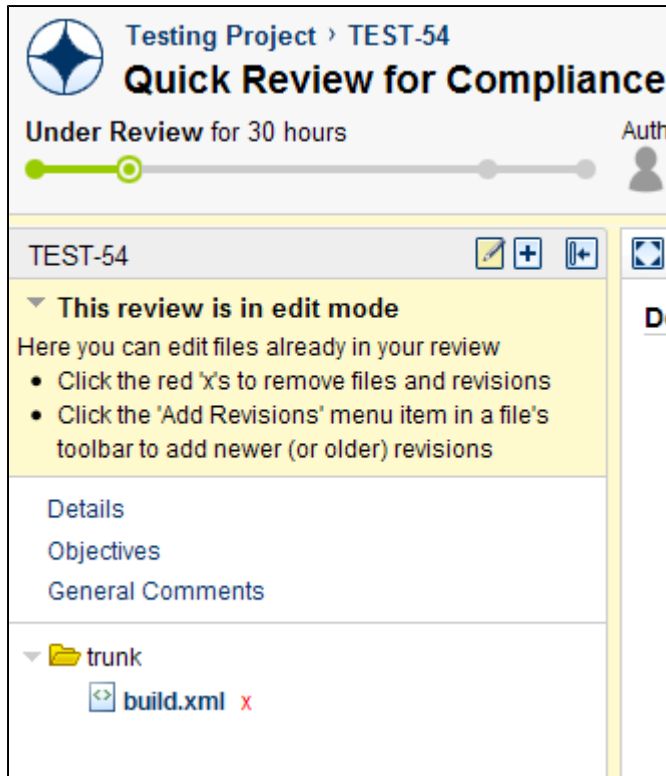
- Add files to a review by clicking the 'Add content' button.
- Remove files by clicking the 'Edit' button in the left navigation panel, then clicking the red cross icons beside files to be removed.

You can edit all the details of a review, including the content, by clicking **Edit Details** near the top right of the review.

Screenshot: Launching Edit Mode



Screenshot: Crucible Edit Mode for Review Content



Adding comments

Comments can be added at the level of a review, revision, or line. You can also reply to a comment.

On this page:

- [Locating existing comments](#)
- [Adding comments](#)
- [Draft comments](#)

Locating existing comments

The number beside a filename, in the left-hand panel of a review, indicates the number of comments on that file.

(The number of unread comments, if any, is shown in brackets.)

Screenshot: Comments

CR-CLOV-136 Test Review for Documentation
Under Review Author & Moderator: Edwin Dawson Edit Review Summarize Tools

Under Review for: 45 days
Overdue: 52 days
Comments: 4
Reviewers: [Icons]

Review Comments

- trunk
 - core/src/com/cenqua/clover
 - BranchInfo.java
 - ClassInfo.java
 - ElementInfo.java 4
 - MethodInfo.java
 - StatementInfo.java
 - idea7/src/com/cenqua/clover
 - IdeaTestFilter.java
 - src/tutorial
 - build.xml

Display Preferences Filter

ElementInfo.java MODIFIED

Revisions: 32288 35536 36696 Edit Revisions

Comments: 4 4 0

File View FishEye File Outdated

/trunk/core/src/com/cenqua/clover/registry/ElementInfo.java

```

4 4 import com.cenqua.clover.context.ContextSet;
5 5 import com.cenqua.clover.context.NamedContext;
6 6
7 7 public abstract class ElementInfo extends SourceRegion implements
8 8     private ContextSet context;
9 9     private int relativeDataIndex;

```

Edwin Dawson says: 13 May
What is this relative to?
Reply Edit Delete Add Favourite

Geoff Crain says: 13 May
the speed of light
Leave Unread

```

10 - private int dataLength = 1; // by default an element occupies
11 - private int complexity;

```

Edwin Dawson says: 13 May
Is this variable name sensible?
Reply Edit Delete Add Favourite

Geoff Crain says: 13 May
i think so - may not be complex enough, though
Leave Unread

```

7 + import java.io.Serializable;
12 8
13 - public ElementInfo(
14 -     BaseFileInfo containingFile, int relativeDataIndex, Co
15 -     SourceRegion region, int complexity) {
16 -     super(containingFile, region);
17 -     this.relativeDataIndex = relativeDataIndex;
9 + public abstract class ElementInfo<T extends SharedElementInfo>
10 +     protected BaseFileInfo containingFile;
11 +     protected ContextSet context;

```


Adding comments

There are various types of comments that you can add in Crucible:

To comment on...	Do this...
The whole review	Click General Comments (in the left-hand panel), then Add a general comment (in the 'General Comments' section).
A source file under review	Click on the file in the left-hand panel, then click Add a file comment at the top of the file.

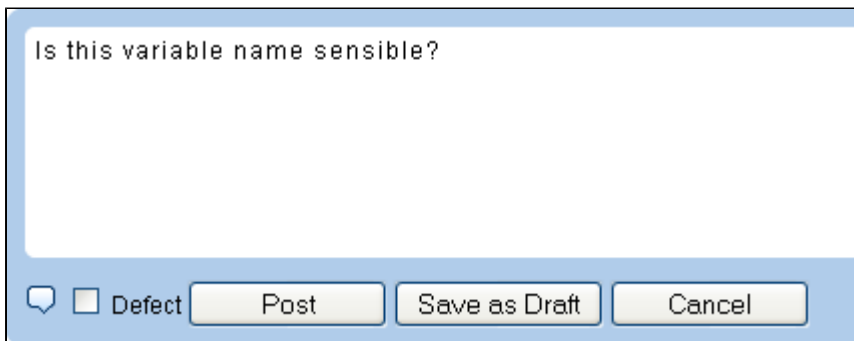
Lines of code	<p>Click on a line of code in the displayed source file of a review.</p> <ul style="list-style-type: none"> You can click and drag to select multiple lines, and click individual lines to select or deselect them. The comment will appear in the source at the last line selected. Hover over the comment to see the lines to which the comment applies. To select text on the page without adding a comment, hold down the Alt key while dragging the cursor.
A revision or changeset	See Changeset discussions .

To reply to a comment, click **Reply** at the bottom of the comment.

 Only people with the 'Comment' [permission](#) can add comments. A comment can only be deleted by the author of the comment.

 Read about [flagging defects](#) too.

Screenshot: Adding a Comment



Draft comments


You can save your comment as a draft and then edit it later. When you [complete the review](#), you will be prompted to post, discard or edit any remaining draft comments.

Screenshot: Draft comments




Changeset discussions


When using Crucible with FishEye, you can have threaded discussions with other users, on any changeset. To start a discussion, you simply start by adding a comment to a changeset.



 You need to be logged in to create changeset comments.

Adding comments to changesets

To add a comment to a changeset:

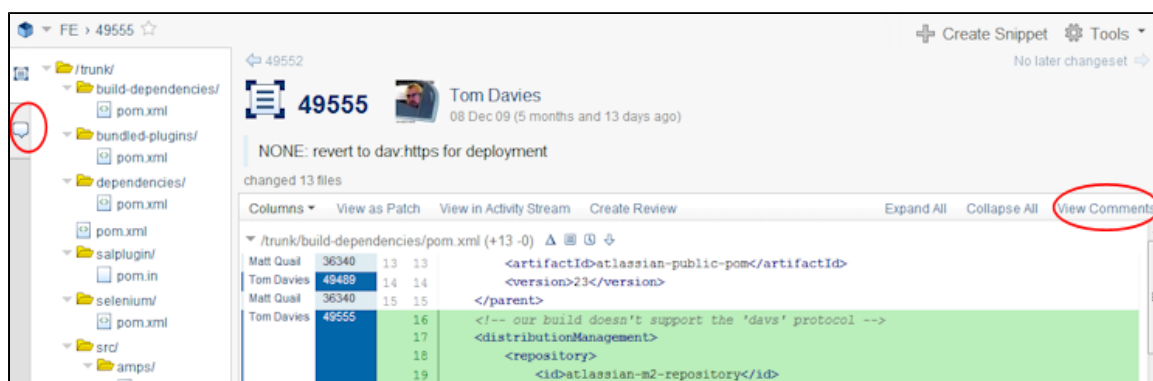
1. Click on a changeset on the **Commits** tab for the repository. Display comments by clicking **Discuss** at the upper right corner, or the speech bubble icon  in the left margin.
2. Click **Add a comment** (under the repository details near the top left).
3. Type your comment. If required, you can tag your comment as being a defect note by clicking **Defect**.
4. Click **Post**.

Once submitted, others can respond to your comment by clicking **Reply**. Replies are threaded as separate comment discussions. You can right-click on the permalink icon  to copy a link to the comment. The comment author can edit or delete their own comments.

To hide the changeset comments, click the page icon . You can display the comments panel by clicking the speech bubble icon  again.

As you compose a comment, it will auto-save periodically.

Screenshot: Opening Changeset Discussions



Turning changeset discussions on and off

You can turn off changeset discussions in the Admin area:

1. In the Admin area, click **Repositories** (under 'Repository Settings' on the left).
2. Find your repository and choose **View** from the 'cog' menu in the Actions column.
3. Click **Other Settings** in the left panel.
4. Under 'Changeset Discussions' clear the **Allow changeset discussions** checkbox.

By default, changeset discussions are on.

Notifications

- Comments show up in the activity stream,
- The author of the changeset will get email notifications when comments are added,
- Comment authors will get email notifications when someone replies to their comments.

Flagging defects

Comments in Crucible can be used to flag a defect in the code under review.

To do this, simply check **Defect** when adding a comment and select a category from the drop-down list.

Screenshot: Defects

Is this variable name sensible?

Defect: Minor | Select Requires Re-Review | Select Classification | Post | Cancel

Select Classification

- Missing
- Extra (superfluous)
- Ambiguous
- Inconsistent
- Improvement desirable
- Not conforming to standards
- Risk-prone
- Factually incorrect
- Not implementable
- Editorial

Geoff Crain says:
i think so - may not be complex enough, though
[Leave Unread](#)

```

7 + import java.io.Serializable;
12 8
13 - public ElementInfo{
14 -     BaseFileInfo containingFile, int re
15 -     SourceRegion region, int complexity,
context,

```

13 May

You may want to mark comments as defects in order to associate defect classifications, or simply to highlight to the [author](#) or [moderator](#) that the issue you raised in your comment requires attention. You can use the **with defects** filter to find files that have been flagged with defects.

i Crucible intentionally does not mandate how defects are to be used. The Crucible administrator can [customize the defect classifications](#).

i You can only use the defect classifications on comments that are not a reply to an existing comment.

Creating JIRA issues from the review

From any [review comment](#) (general, file, inline) in Crucible, you can create a JIRA issue directly from the comment. This requires that Crucible is [integrated with JIRA](#), version 5.0 or later, and is disabled if you have an earlier version of JIRA.

Inline issue creation allows:

- Tracking of the status of the comment
- A faster way to pull out incidental suggestions raised in reviews as JIRA issues
- A quick link back to the comment from the JIRA issue, using Remote Issue Links.

You might find this useful when:


1. Tracking the status of a review:
 - a. The 'Issues Raised from Comments' section in the review shows the open/closed status of related issues.
 - b. Raising related issues enforces dealing with subtasks before the review can be closed.
2. Closing off a review:
 - a. You can create JIRA issues, unrelated to the current review, to track matters to be dealt with later.

Creating a JIRA issue


To create a JIRA issue from a review, click **Create Issue** in an existing comment. Note that you need the 'Comment' [permission](#) in Crucible to see the **Create Issue** link.

General Comments

 [Paul Watson](#) says:
The title of the target page for the help link should be "Setting the REST API token"
This is it: <https://confluence.atlassian.com/display/FISHEYE/Setting+the+REST+API+token>
[Reply](#) [Edit](#) [Delete](#) [+1](#) [Create Issue](#)

 [Lukasz Pater](#) says:
Done, linked <https://confluence.atlassian.com/display/FISHEYE/Configuring+Commit+Hooks> from the update
[Reply](#) [Leave Unread](#) [+1](#) [Create Issue](#)

[Add a general comment.](#)



Crucible suggests a JIRA instance, project and issue type, but you can choose from the available options. You can choose **Sub-task** from the **JIRA Issue Type** list if a JIRA issue is already [linked to the review](#).

Crucible only displays required fields for the issue type; these can be [configured in JIRA](#) by your administrator.

Create issue

JIRA Project*

FishEye Crucible Development

JIRA Issue Type*

Bug

Summary*

The title of the target page for the he

Description

The title of the target page for the help link should be "Setting the REST API token"

This is it:

<https://confluence.atlassian.com/display/FISHEYE/Setting+the+REST+API+token>

Once the issue is created, the comment displays a link to the issue in JIRA, and in JIRA, the issue displays a link back to the comment in Crucible. The 'Issues raised from comments' section of the review displays links to the JIRA issues.

See [Using JIRA integration in Crucible reviews](#) for more information.

See also [Creating a review from JIRA](#).

Viewing reports

This page describes how to use the Reports tab in Crucible to see lists of people whose action is required on open reviews. These are known as 'blockers'.

On this page:

- [Viewing the Review Blockers report](#)
- [Viewing the JIRA Blockers report](#)

See also:

- [Viewing the Review Coverage report](#)

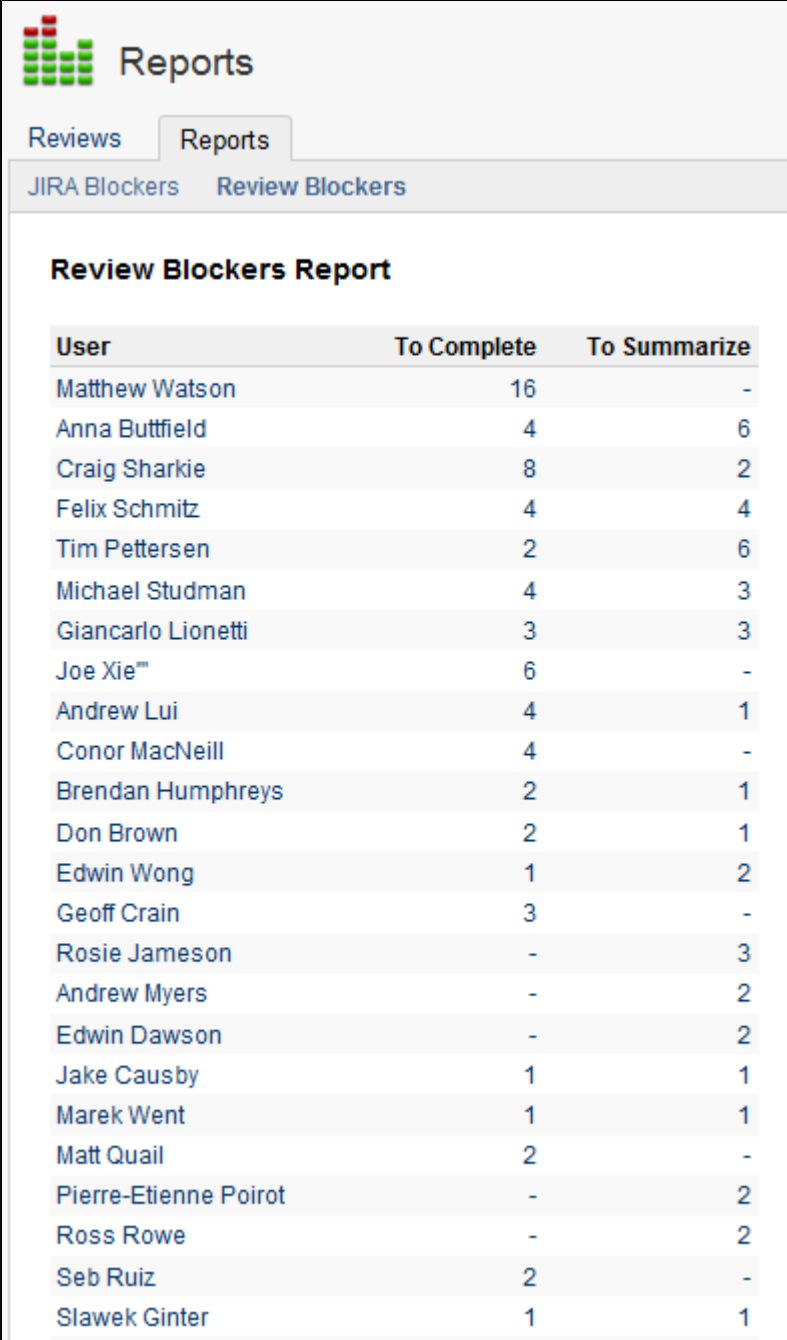
Viewing the Review Blockers report

To view a list of people who have open reviews assigned to them:

1. Click the dropdown arrow next to the **Reviews** tab at the top of the page and select **Reports**.

2. Click **Review Blockers** (under the 'Reports' sub-tab).
 - Click a user's name to go to their 'Activity' screen.
 - Click a number in the 'To Complete' or 'To Summarize' column to go to a list of reviews for that user.

Screenshot: 'Review Blockers' Report



User	To Complete	To Summarize
Matthew Watson	16	-
Anna Buttfeld	4	6
Craig Sharkie	8	2
Felix Schmitz	4	4
Tim Pettersen	2	6
Michael Studman	4	3
Giancarlo Lionetti	3	3
Joe Xie™	6	-
Andrew Lui	4	1
Conor MacNeill	4	-
Brendan Humphreys	2	1
Don Brown	2	1
Edwin Wong	1	2
Geoff Crain	3	-
Rosie Jameson	-	3
Andrew Myers	-	2
Edwin Dawson	-	2
Jake Causby	1	1
Marek Went	1	1
Matt Quail	2	-
Pierre-Etienne Poirot	-	2
Ross Rowe	-	2
Seb Ruiz	2	-
Slawek Ginter	1	1

Viewing the JIRA Blockers report

The 'JIRA Blockers' report shows you a list of users whose action is required on open reviews, for a particular set of JIRA issues. The reviews must be [explicitly linked to a JIRA issue](#) or mention a JIRA issue key in the summary or the objectives.

To view the 'JIRA Blockers' report:

1. Click the dropdown arrow next to the **Reviews** tab at the top of the page and select **Reports**.
2. Click **JIRA Blockers** (under the 'Reports' sub-tab).

3. Enter details for your JIRA server and project, and click **Go**.

The 'JIRA Blockers' report displays the following information:

- A list of JIRA issues for which one or more Crucible reviewers has not completed their review.
- A list of users who have an incomplete Crucible review that relates to a JIRA issue.
- A list of open JIRA issues for which a Crucible review is closed, and vice versa.

Screenshot: 'JIRA Blockers' Report

JIRA Blockers Report

Select the JIRA instance to retrieve data from:

JIRA project key:
The key for the project you want to find review-blocked JIRA issues from.

JIRA project's version:
The version for your selected project that you wish to find issues from.

JIRA "Under Review" workflow step:
The name of the workflow step from your JIRA instance that indicates an issue is under review.

Issue	Review	Incomplete	Reviewer	Incomplete reviews
FE-1073	CR-FE-3635	Conor MacNeill	Conor MacNeill	2
FE-2656	CR-FE-3644	Conor MacNeill Tim Pettersen	Joe Xie™	1
FE-2665	CR-FE-3839	Joe Xie™ Michael Heemskerk Tom Davies	Michael Heemskerk	1
			Tim Pettersen	1
			Tom Davies	1

Issue	Severity	Problem	?
FE-2656		Issue resolved, reviews are still open	
FE-2751		Issue unresolved, reviews are closed	
FE-2751		Issue unresolved, reviews are completed by all reviewers	
FE-2702		Issue unresolved, reviews are closed	
FE-2702		Issue unresolved, reviews are completed by all reviewers	
FE-2504		Issue unresolved, reviews are closed	
FE-2504		Issue unresolved, reviews are	

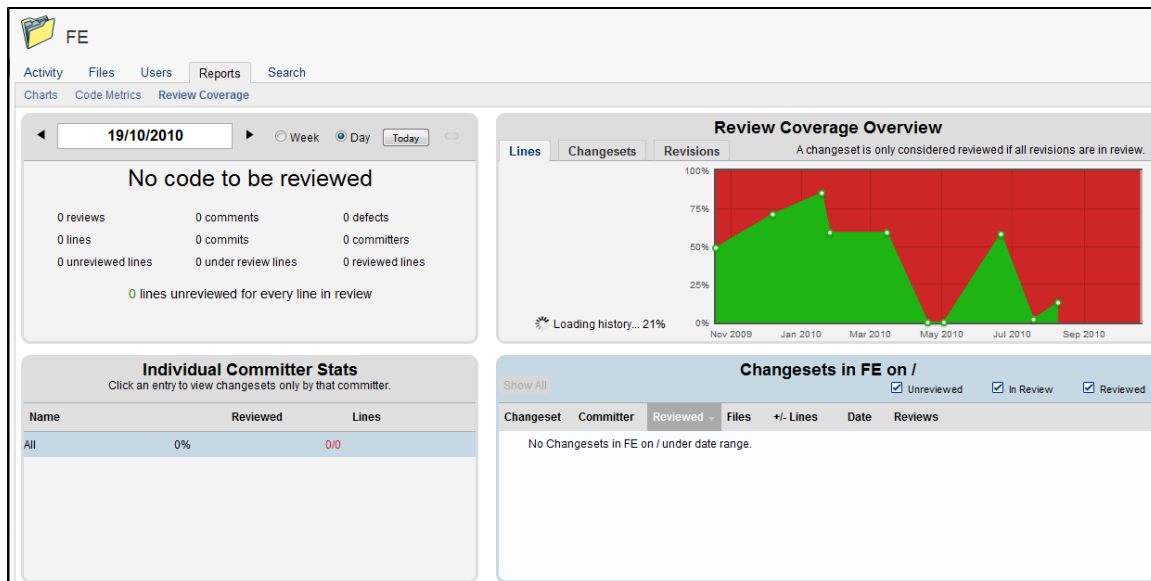
Review Coverage report

Crucible has useful reports that show you detailed statistics on review activity. The Review Coverage report allows you to see how much of the code, and which files, in your repository have been reviewed, and when. You can also access the reviews.

This feature requires **FishEye integrated with Crucible**.

On this page:

- [Opening the Review Coverage report](#)
- [Using the Summary Panel](#)
- [Using the Review Coverage Overview](#)
- [Using the Individual Committer Statistics panel](#)
 - [Using the Changesets Coverage panel](#)

Screenshot: The Review Coverage report**Opening the Review Coverage report****To open the Review Coverage report:**

1. Click the **Source** tab.
2. Select your repository. The repository you've chosen will set the scope for the Coverage Coverage report.
3. If desired, navigate down the tree to the desired path you want to view coverage on.
4. Click the **Reports** tab in the secondary toolbar.
5. Select **Review Coverage Report** from the list of reports in the upper panel.

i You can view coverage of any path by navigate down the tree to the desired path you want to view coverage on, before clicking on the **Reports** tab.

Using the Summary Panel

The summary panel shows some choice metrics from your Crucible instance. The following information from your repository is arrayed:

- Overall review coverage percentage.
- Change in review coverage percentage since the last reporting period.
- Total number of reviews.
- Total number of comments.
- Total number of reported defects.
- Total number of Lines of Code (LOC).
- Total number of commits.
- Total number of committers.
- Total number of unreviewed lines.
- Total number of lines under review.
- Total number of reviewed lines.
- A ratio of the number of lines unreviewed against reviewed Lines of Code (LOC).

Screenshot: Summary Panel in the Review Coverage report

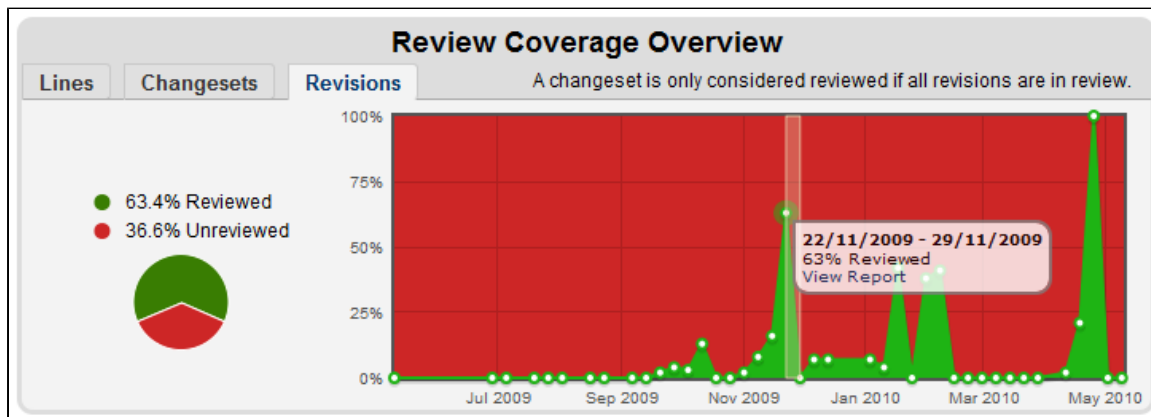


Using the Review Coverage Overview

The Review Coverage Overview shows a timeline of reviews, compared against their percentage of coverage. Hover your mouse cursor over the data points on the graph to see granular information and click through to a detailed weekly report.

You can click the tabs to view the coverage expressed as a percentage of lines of code, changesets or revisions.

Screenshot: Overview Panel in the Review Coverage report



Using the Individual Committer Statistics panel

The Individual Committer Statistics panel lets you choose a user from your Crucible instance and see all the changesets by that committer.

Screenshot: Individual Committer Statistics in the Review Coverage report

Individual Committer Stats			
Click an entry to view changesets only by that committer.			
Rank ^	Name	Reviewed	Lines
1st	mwatson	100%	84/84
2nd	alyons	100%	67/67
3rd	amyers	100%	2/2
4th	sruiz	97%	1,140/1,178
5th	nvenegas	82%	266/326
6th	ahempel	61%	94/155
7th	csharkie	91%	664/731
8th	mquail	0%	0/154
9th	abuttfield	79%	659/833
10th	cmacneill	1%	2/187
11th	gcrair	58%	408/706
12th	tdavies	26%	306/1,182
All		66%	3,692/5,605

Using the Changesets Coverage panel

The Changesets Coverage panel lets you see changesets from your Crucible instance (for the time period of the report), and their level of review coverage. This information can be sorted by the columns in this view and uses colour coding to denote review coverage (listed in the table below).

Colour Key

Colour	State
dark green	reviewed
light green	in review
red	not reviewed

Screenshot: Changesets Coverage panel in the Review Coverage report

Changesets in FE on /trunk						
Show All		<input checked="" type="checkbox"/> Unreviewed <input checked="" type="checkbox"/> In Review <input checked="" type="checkbox"/> Reviewed				
Changeset	Committer	Reviewed	Files	+/- Lines	Date	Reviews
▶ 54106	tdavies	<div></div>	16	+297 / -308	1 Feb	
▶ 54110	sruiz	<div></div>	12	+387 / -106	1 Feb	⊕ CR-FE-3071
▶ 54199	csharki...	<div></div>	5	+192 / -161	2 Feb	⊕ CR-FE-3082
▶ 54249	sruiz	<div></div>	6	+134 / -136	2 Feb	⊕ CR-FE-3071
▶ 54322	csharki...	<div></div>	6	+174 / -68	3 Feb	⊕ CR-FE-3082
▶ 54228	nvenega...	<div></div>	8	+73 / -82	2 Feb	⊕ CR-FE-3090
▶ 54155	mquail	<div></div>	2	+151 / -1	1 Feb	
▶ 54555	abuttfi...	<div></div>	6	+83 / -63	5 Feb	⊕ CR-FE-3073
▶ 54390	gcrain	<div></div>	3	+72 / -73	4 Feb	⊕ CR-FE-3099
▶ 54125	abuttfi...	<div></div>	9	+77 / -62	1 Feb	⊕ CR-FE-3054
▶ 54321	tdavies	<div></div>	12	+79 / -59	3 Feb	⊕ CR-FE-3079
▶ 54244	cmacnei...	<div></div>	1	+67 / -67	2 Feb	
▶ 54307	abuttfi...	<div></div>	3	+63 / -71	3 Feb	⊕ CR-FE-3095
▶ 54191	gcrain	<div></div>	4	+86 / -46	2 Feb	
▶ 54330	sruiz	<div></div>	3	+71 / -50	3 Feb	⊕ CR-FE-3096
▶ 54159	tdavies	<div></div>	15	+89 / -25	1 Feb	⊕ CR-FE-3079

Completing your review

Once each [reviewer](#) has added [comments](#) to the review and has nothing further to add, the next step is for them to complete their individual review.

To complete your individual review, go to the review and click **Complete** at the top of the screen, next to the **Tools** menu:



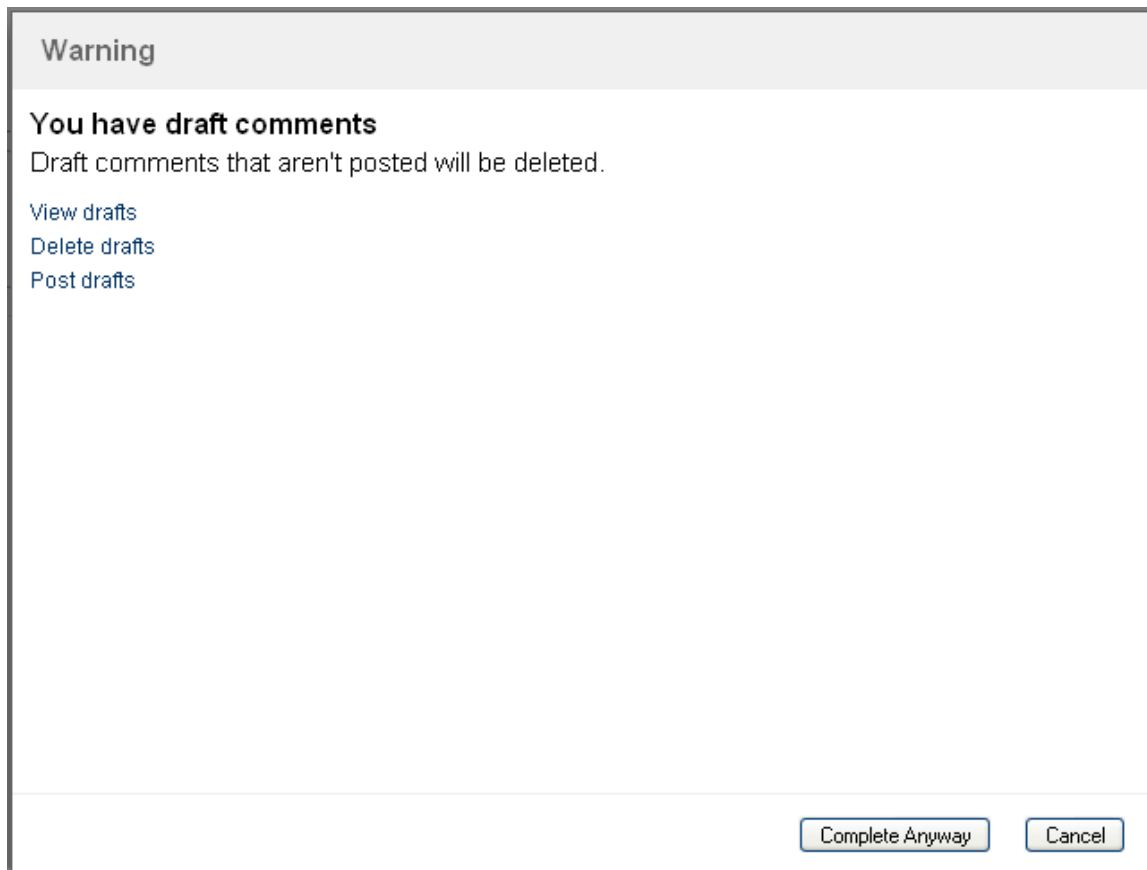
i Only people with the '[Complete](#)' [permission](#) can complete a review.

This notifies the [moderator](#) (via email if configured) that you have completed your review.

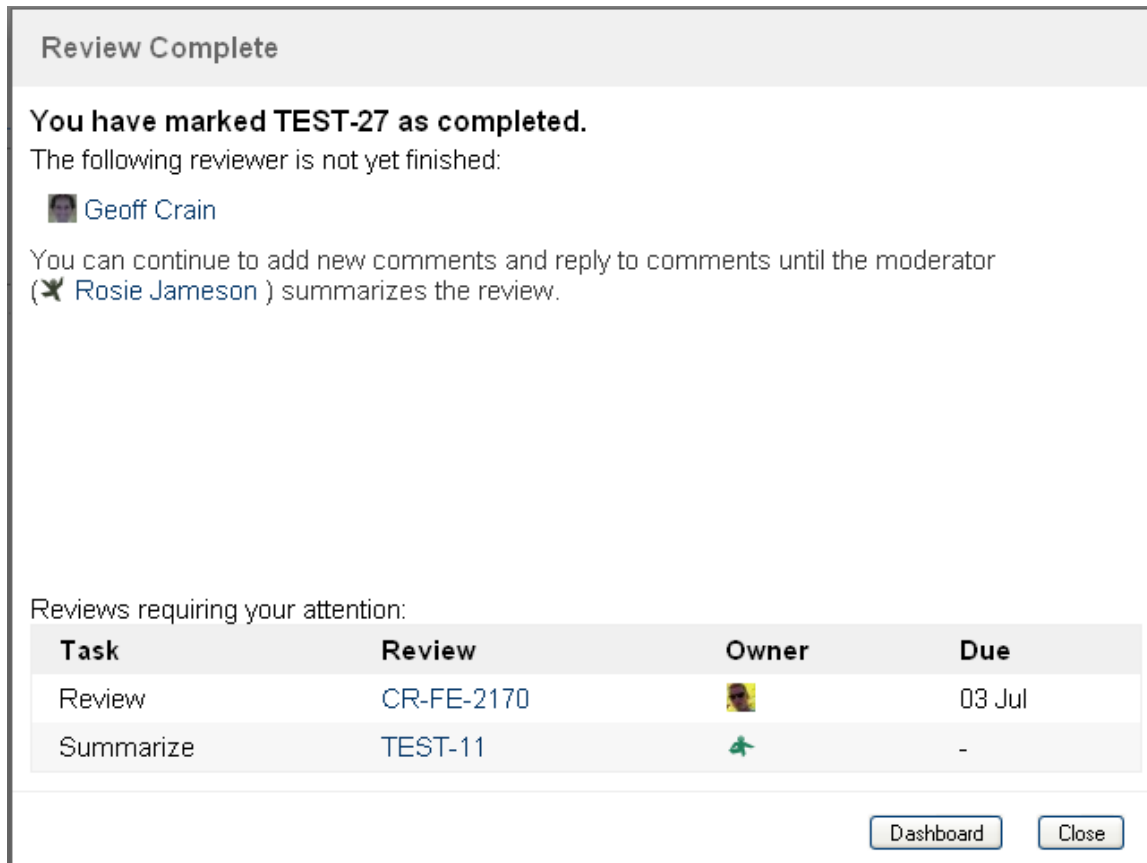
Reviewers can still continue to add comments until the moderator [summarises](#) the review. The moderator does **not** have to wait for all reviewers to complete their individual reviews before summarising.

If you have any draft [comments](#), you will be prompted to post/discard/edit any comments before completing the review.

Screenshot: Draft comments



Screenshot: Review complete



Sending a review's comments via Email

You can send all of the comments from a review to anyone you want via email. You may wish to do this to allow

a person outside the review to quickly scan the content of the comments, or oversee the review activity. Alternatively, you may wish to send all participants this information to let them read the current status of the review and its comments in full.

Before you begin:

- Users who are not logged in cannot send email, but they can view the text content of the review's comments by clicking **View Text** that replaces **Email Review** in the **Tools** menu.
- Emails of reviews are only sent in plain text, not HTML. HTML emails are only available via [watches](#).

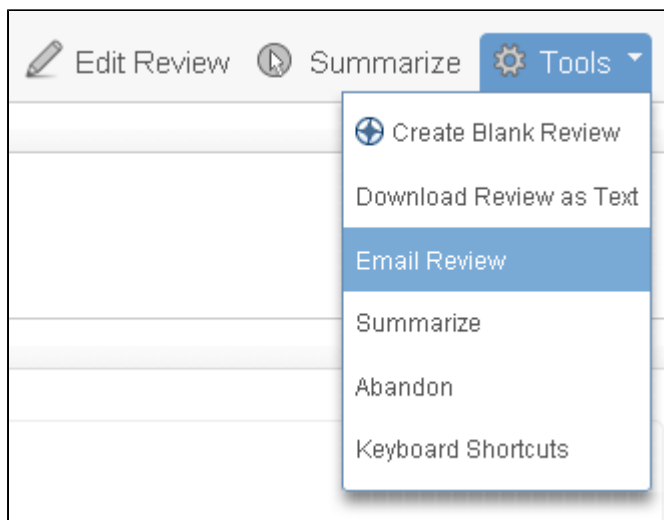
To send all of a review's comments via email:

1. In Crucible, navigate to the review in question.
2. Choose **Tools** > **Email Review** (see *Screenshot 1* below).
3. Specify the email recipients:

To	You can enter multiple email addresses, separated by commas.
Recipients	You can type usernames from your Crucible instance, to add them to the distribution list.
Send to Review Participants	Send the email to all reviewers.

4. Click **Next**.
5. You can modify both the Subject and Message parts of the email if required.
6. Click **Send** when you are ready. The 'Status' page confirms that your email has been sent.

Screenshot 1: The Email Review option in Crucible



Screenshot 2: The 'Recipients' Screen in Crucible

Email Review Comments

1 Specify recipients 2 Message details 3 Status

Recipients
Specify the people who should receive the comments of this review. You can specify a list of comma separated email addresses and/or specify one or more Crucible users.

To:

Recipients:

Start typing a user name then press enter to select.

☐ Send To Review Participants

Cancel Next

Screenshot 3: The 'Message' Screen in Crucible

Email Review Comments

1 Specify recipients 2 Message details 3 Status

Message Details
This is the message as it will be sent. You can modify both the message content, as well as the subject of the email before sending it.

Subject: [TEST-27] test: All Comments

Message:

Subject: [TEST-27] Review: test

This is a list of all comments for TEST-27.

Review Summary: No summary

ID: TEST-27 <https://extranet.atlassian.com/crucible/cru/TEST-27>

Title: test

Statement of Objectives:
documentation testing

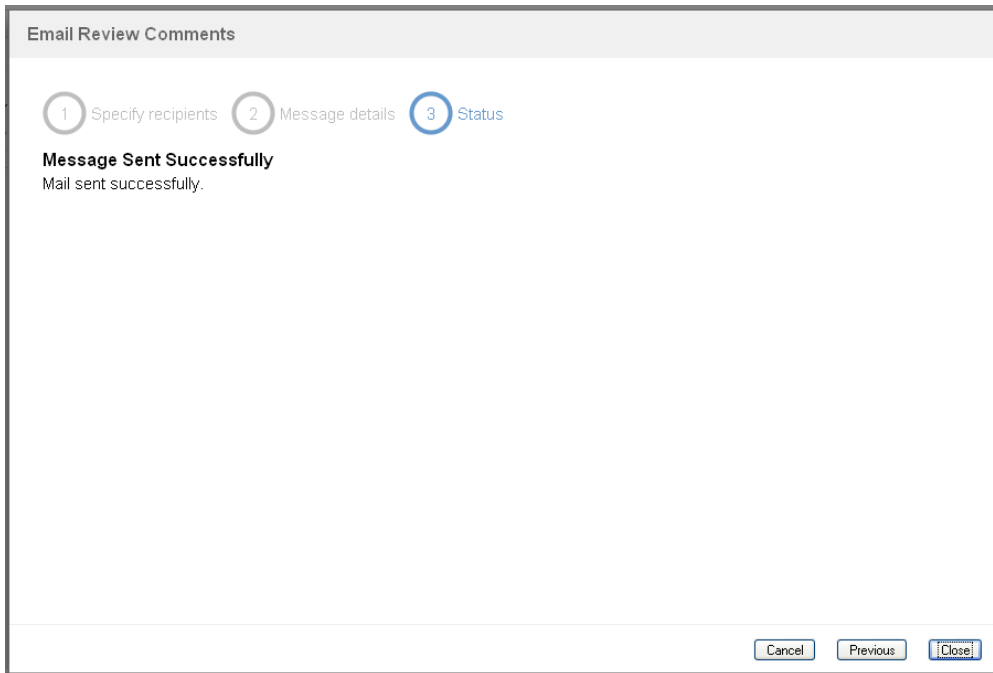
State: Review

Author: Rosie Jameson

Moderator: Rosie Jameson

Cancel Previous Send

Screenshot 4: The Email Confirmation Screen in Crucible



Using JIRA integration in Crucible reviews

This page describes ways that you can use JIRA integration with Crucible reviews.

On this page:

1. [Create your review and link it to a JIRA issue](#)
2. [Comment, or flag a defect, on the review](#)
3. [Create a JIRA issue from a comment](#)

i Before you begin, both your Crucible and JIRA instances must be configured to use make use of these JIRA integration features. The Crucible project requires a linked JIRA project before issues can be linked to reviews. [Read more.](#)

1. Create your review and link it to a JIRA issue

When creating, or editing, your review, Crucible will suggest a JIRA issue that can be linked to the review, if a JIRA issue key is found in the review title. You can:

- click the suggested JIRA issue key, to link it to the review
- delete the suggested JIRA issue and specify a different issue key and click **Link** to save it.

Screenshot: Selecting a JIRA issue when creating a review

Edit Review Details CR-FE-6139

Project: CR-FE

Title: CRUC-5879: Set default due due to duration rounded to nearest half hour instead of exact duration from

Author: Adam Ahmed

Reviewers: [Suggest reviewers...](#) ☒ Allow anyone to join

Seb Ruiz

Tim Pettersen

Objectives: d3484be6a4122053e4e37457cb2b508566654fdb: CRUC-5879: Set default due due to duration rounded to nearest half hour instead of exact duration from now. This matches the UI options and avoids random due date changes when editing details and dumb-looking due dates showing up in the UI ('Due at 3:14:15 tomorrow' looks dumb)

Due Date:

Linked Review:

Linked Issue: **CRUC-5879** - Review due and reminder dates that change by < second are tracked

[Add Content](#) [Done](#)

2. Comment, or flag a defect, on the review

You can [add a comment](#) to the review. Check **Defect** when creating the comment if you want to [flag this as a defect](#).

General Comments

Paul Watson says: 20:10

The title of the target page for the help link should be "Setting the REST API token"

This is it: <https://confluence.atlassian.com/display/FISHEYE/Setting+the+REST+API+token>

[Reply](#) [Edit](#) [Delete](#) [+1](#) [Create Issue](#)

This is my new comment...

☐ Defect [Post](#) [Keep as Draft](#) [Discard](#) Autosaved at 10:33 AM

3. Create a JIRA issue from a comment

Click **Create Issue** in a comment to create a JIRA issue. Crucible suggests the JIRA instance, project and issue type, but you can modify these. This requires JIRA 5.0, or later, and is disabled if Crucible is integrated with an earlier version of JIRA.

Create issue

JIRA Project* FishEye Crucible Development

JIRA Issue Type* Bug

Summary* The title of the target page for the he

Description The title of the target page for the help link should be "Setting the REST API token" This is it: https://confluence.atlassian.com/display/FISHEYE/Setting+the+REST+API+token

Create Cancel

Using the Review History Dialog

The Review History dialog shows a chronological list of interactions within a review. You can see rich information about those interactions and control their display. You can sort the information by date, actor, or action.

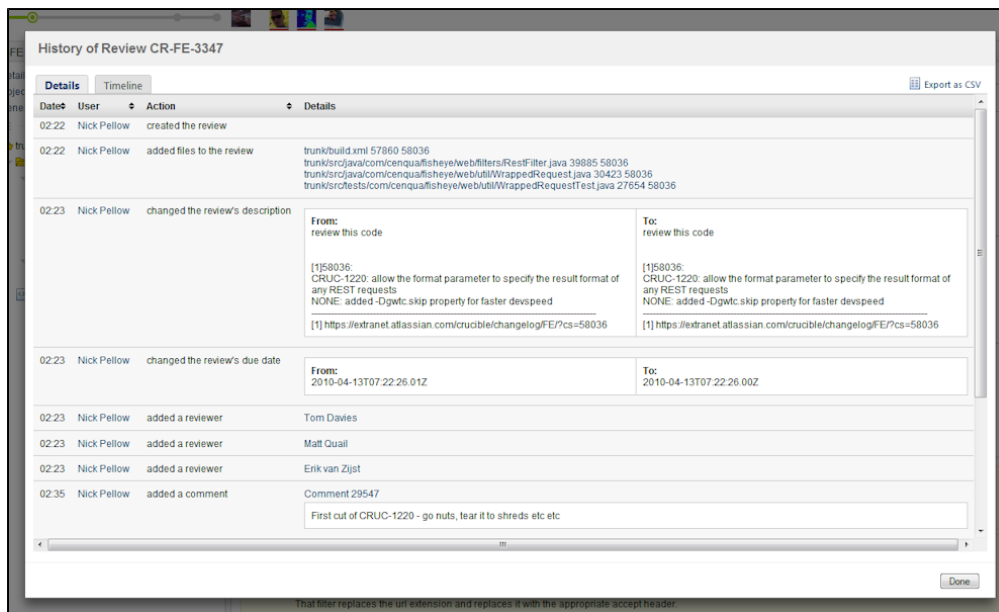
To open the Review History dialog:

1. Open a review in Crucible.
2. Click '**Tools**' > '**Review History**' at the toolbar at the top right corner of the screen.
3. The Review History dialog opens.

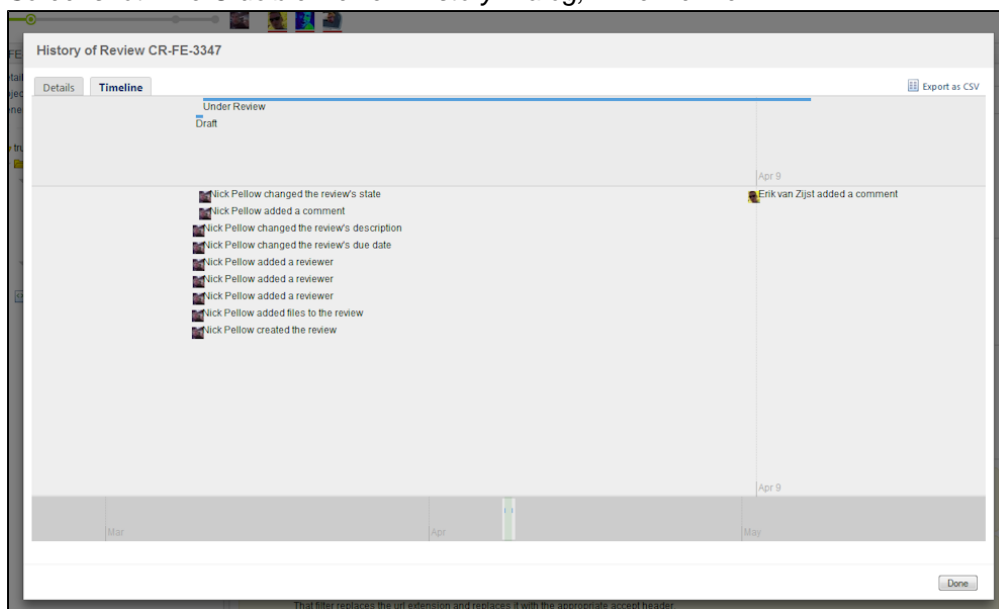
This information can also be displayed in the new timeline mode, a graphical visualisation that shows events on a horizontal graph over time (click the '**Timeline**' tab at the top of the dialog to switch from '**Details**' to timeline view). Click and drag inside the timeline view to scroll the graph left and right. You can also click on the section showing months to scroll over a greater time scale.

Additionally, you can get access to the entire review history through the '**CSV export**' link in the upper right hand corner, allowing for easy data import into a spreadsheet or other application.

Screenshot: The Crucible Review History Dialog



Screenshot: The Crucible Review History Dialog, Timeline View



Using RSS feeds in Crucible

Subscribing to an RSS feed

In Crucible, all pages with an activity stream, and any page that has a list of reviews, will have an RSS option.


To access the RSS feed for a page, open the **Tools** menu at the top right corner of the screen, then choose the **RSS** option.

This will open a page with the RSS feed displayed; you can also paste the URL from that page into your RSS reader of choice.

Using Wiki Markup in Crucible

Crucible supports Wiki Markup text formatting in comments and review descriptions.

The text markup notation on this page is a reference showing the available formatting commands.

 When using FishEye, you can also render [Wiki Markup in commit messages](#).

Headings

Notation	Description
h1.Biggest heading	Turns text into a heading at size 1. Biggest Text
h2.Bigger heading	Turns text into a heading at size 2. Bigger heading
h3.Big heading	Turns text into a heading at size 3. Big heading
h4.Normal heading	Turns text into a heading at size 4. Normal heading
h5.Small heading	Turns text into a heading at size 5. Small heading
h6.Smallest heading	Turns text into a heading at size 6. Smallest heading

Text Effects

Text effects are used to change the formatting of words and sentences.

Notation	Description
bold	Makes text appear bold .
italic	Makes text appear in <i>italics</i> .
+underline+	Makes text appear <u>underlined</u> .
??citation??	Makes text appear in — <i>citation</i> form.
-strikethrough-	Makes text appear struck through .
^superscript^	Makes text appear in ^{superscript} .
~subscript~	Makes text appear in _{subscript} .
<code>{{monospaced}}</code>	Placing double curly-brackets around text makes it appear monospaced.

<code>bq. Block Quote</code>	<p>To make an entire paragraph into a block quotation, place "bq. " before it.</p> <p>Example:</p> <div><div></div><i>Some block quoted text</i></div>
<code>{quote}</code> here is quoteable content to be quoted <code>{quote}</code>	<p>Quote a block of text that's longer than one paragraph.</p> <p>Example:</p> <div><div></div><i>here is quoteable content to be quoted</i></div>
<code>{color:red}</code> look ma, red text! <code>{color}</code>	<p>Changes the color of a block of text.</p> <p>Example: look ma, red text!</p>

Text Breaks

Wiki Markup allows you to insert breaks or different kinds of hyphens and dashes.

Notation	Description
(empty line)	Produces a new paragraph
<div><code>\</code></div>	Creates a line break.
<div><code>----</code></div>	Creates a horizontal ruler.
<div><code>---</code></div>	Produces em dash — symbol.
<div><code>--</code></div>	Produces en dash – symbol.

Links

Creating links is easy with Wiki Markup.

Notation	Description
<code>[Crucible Review CR-FE-100 CR-FE-100]</code>	Creates a link to a Crucible review or FishEye artifact using the internal key reference for the item.

[Atlassian Crucible http://atlassian.com]	<p>Creates a link to an external resource, special characters that come after the URL and are not part of it must be separated with a space. External links are denoted with an arrow icon.</p> <p>Examples:</p> <ul style="list-style-type: none"> • http://www.atlassian.com/crucible • Atlassian Crucible <p>Note: The square brackets [,], around external links are optional in the case you do not want to use any alternate text for the link (i.e. just display the raw URL).</p>
[mailto:mail@example.com]	<p>Creates a link to an email address.</p> <p>Example:</p> <p>mail@example.com</p>
<p>[file:///c:/temp/foo.txt]</p> <p>[file:///z:/file/on/network/share.txt]</p>	<p>Creates a download link to a file on your computer or on a network share that you have mapped to a drive. To access the file, you must right click on the link and choose "Save Target As".</p>
{anchor:anchorname}	<p>Creates a bookmark anchor inside the page. You can then create links directly to that anchor. So a link like this: [My Page#here] will link to wherever in "My Page" there is an {anchor:here} macro, and the link [#there] will link to wherever in the current page there is an {anchor:there} macro.</p>

Lists

Lists allow you to present information as a series of ordered items. Use asterisks * for bulleted lists and hash symbols # for numbered lists.

Notation	Description
<p>* A bulleted list</p> <p>* Second item</p> <p>** indented item 1</p> <p>** indented item 2</p> <p># A numbered list</p> <p># Second item</p> <p>## indented item 1</p> <p>## indented item 2</p>	<p>Examples:</p> <ul style="list-style-type: none"> • A bulleted list • Second item <ul style="list-style-type: none"> • indented item 1 • indented item 2 <ol style="list-style-type: none"> 1. A numbered list 2. Second item <ol style="list-style-type: none"> a. indented item 1 b. indented item 2

Images

Images can be referenced from remote sources only.

Notation	Description
!http://www.host.com/image.gif!	The image will be displayed from the remote source.

!http://www.host.com/image.gif|align=right, vspace=4!

For any image, you can also specify attributes of the image tag as a comma separated list of name=value pairs as shown in this example.

Tables

Tables allow you to organise content in a rows and columns, with a header row if required.

Notation	Description
<pre> heading 1 heading 2 heading 3 col A1 col A2 col A3 col B1 col B2 col B3 </pre>	Makes a table. Use double bars for a table heading row.

The code above produces a table that looks like this:

heading 1	heading 2	heading 3
col A1	col A2	col A3
col B1	col B2	col B3

Advanced Formatting

This section covers panels, code windows and showing plain text with no formatting.

Notation	Description
<pre>{noformat}</pre>	<p>Makes a preformatted block of text with no syntax highlighting. All the optional parameters of the {noformat} macro are valid for the {panel} macro as well.</p> <p>Example:</p> <div><pre>This is a no-formatted piece of text, so *no* _formatting_ is done here.</pre></div>

<p><code>{panel}</code></p>	<p>Embraces a block of text within a fully customizable panel. The optional parameters you can define are as follows.</p> <ul style="list-style-type: none"> • <code>title</code>: Title of the panel • <code>borderStyle</code>: The style of the border this panel uses (solid, dashed and other valid CSS border styles) • <code>borderColor</code>: The color of the border this panel uses • <code>borderWidth</code>: The width of the border this panel uses • <code>bgColor</code>: The background color of this panel • <code>titleBGColor</code>: The background color of the title section of this panel <p>Examples:</p> <div>Some text in a basic panel</div> <div> <div>My Title</div> <div>Some text with a title</div> </div>
<p><code>{code}</code>code goes here<code>{code}</code></p> <p><code>{code:title=Bar.java borderStyle=solid}</code> <code>// Some comments here</code> <code>public String getFoo()</code> <code>{</code> <code>return foo;</code> <code>}</code> <code>{code}</code></p> <p><code>{code:xml}</code> <code><test></code> <code><another tag="attribute"/></code> <code></test></code> <code>{code}</code></p>	<p>The code macro displays a preformatted block for showing code with syntax highlighting. All the optional parameters of the <code>{panel}</code> macro are valid for <code>{code}</code>. The default language is Java but you can specify JavaScript, ActionScript, XML or SQL.</p> <p>Examples:</p> <p>Java with a title bar:</p> <div> <div>Bar.java</div> <pre>// Some comments here public String getFoo() { return foo; }</pre> </div> <p>A basic display with XML code:</p> <div> <pre><test> <another tag="attribute"/> </test></pre> </div>

Miscellaneous Markup Features

Emoticons and often-used images can be easily embedded with the following Wiki Markup Syntax:

Notation						Description					
\X						Escape special character X (i.e. {})					
:), :(Graphical emoticons (smileys): 😊, ☹️ .					

Notati on	:)	:(:P	:D	;	(y)	(n)	(i)	(/)	(x)	(!)
Image	😊	☹️	😜	😄	😌	👍	🗨️	📘	🇬🇧	==	⚠️

Notatio n	(+)	(-)	(?)	(on)	(off)	(*)	(*r)	(*g)	(*b)	(*y)
Image	🇬🇧	==	📘	💡	💡	★	★	★	★	★

Tracking Crucible Review Metrics

Crucible tracks each participant's percentage completion through each review and the total time they have spent.

To learn about these features, see the following pages:

- [Using Progress Tracking](#)
- [Using Time Tracking](#)

Using Progress Tracking

This page contains instruction on how to use progress tracking in Crucible.

On this page:

- [How progress tracking works in Crucible](#)
- [Viewing the progress tracking totals](#)
- [How to adjust progress tracking on a review](#)
- [Adjusting settings for progress tracking](#)
- [Further reading](#)

How progress tracking works in Crucible

As you work your way through the files in a review, Crucible tracks the ones you have viewed. Whenever you open a file for review, Crucible will automatically mark it as read.

When participating in [iterative reviews](#), progress tracking also takes lines of code and revisions into account.

Viewing the progress tracking totals

The '**Details**' view shows a summary of the progress of each participant through the files in the review.

ℹ️ If there is only one file in the review, then the progress tracked will either show 0% or 100%.

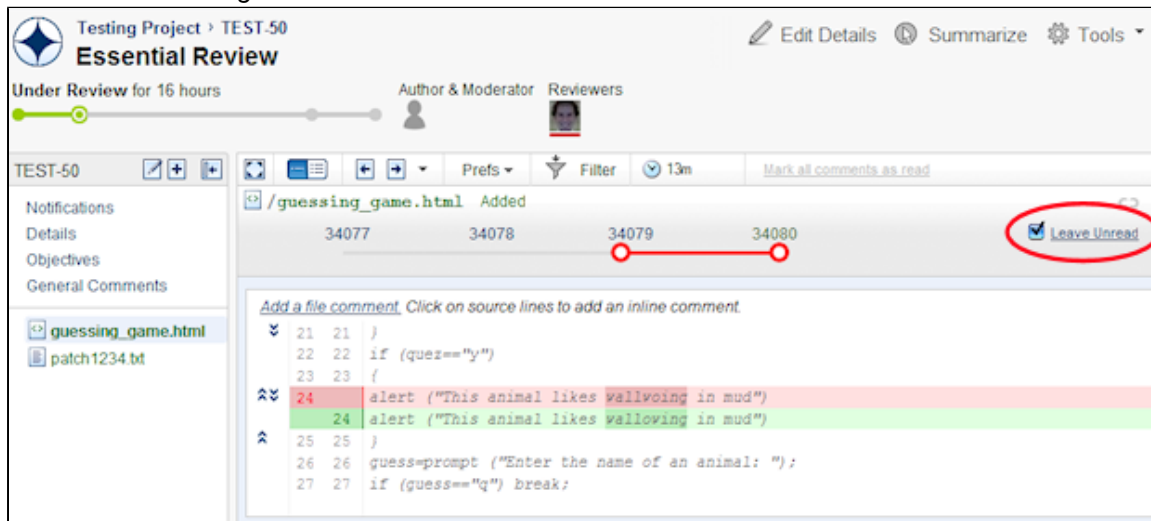
Screenshot: Viewing the Progress Tracking Totals

Details				
Participant	Role	Time Spent	Comments	Latest Comment
Edwin Dawson	Author & Moderator	21 mins	1	This could result in 3,000 thistles.
Geoff Crain	Reviewer - 88% complete	3 mins		
Total		24 mins	1	

How to adjust progress tracking on a review

You can mark a file as unread by clicking on its name to view the file's contents. In the source view, you have an option at the top left of the screen, '**Leave Unread**'. If you select that, then the file you are looking at will not be added to your progress percentage.

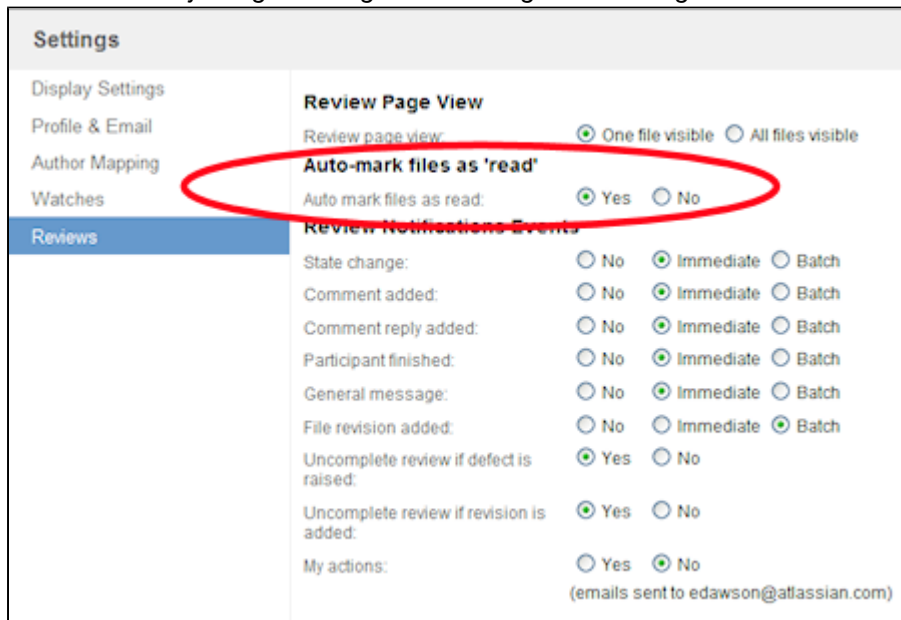
Screenshot: Marking a File as Unread



Adjusting settings for progress tracking

Progress tracking is a configurable user preference that can be changed in the '**User Settings**' menu, in the '**Reviews**' sub-section. '**Auto-mark files as read**' is on by default. When '**Auto-mark files as read**' is set to '**No**', marking files as read or unread is left to the user to manually manage.

Screenshot: Adjusting the Progress Tracking User Settings



Further reading

You may also want to learn about Crucible's [Time Tracking](#) feature.

Using Time Tracking

This page contains instruction on how to use time tracking in Crucible.

On this page:

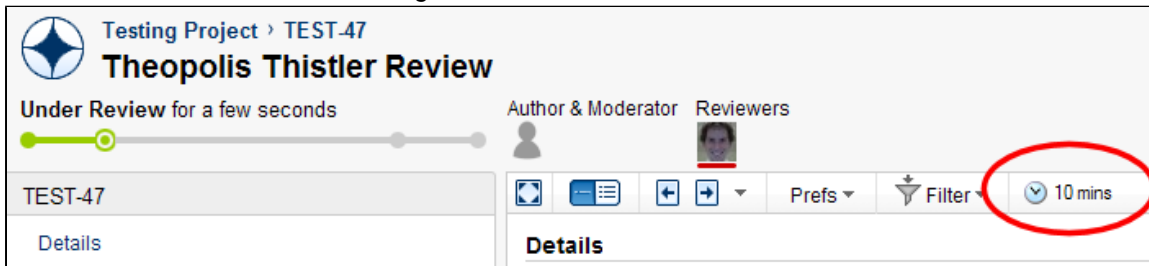
- [How time tracking works in Crucible](#)

- [How to adjust the time tracked on a review](#)
- [Viewing the time tracking totals](#)
- [JIRA integration](#)
- [Further reading](#)

How time tracking works in Crucible

Crucible will automatically track the time you spend in a Crucible review. When you open a file for review, a counter in the Review Details panel starts. The time is added to your total when you leave the review screen.

Screenshot: Crucible Time Tracking



How to adjust the time tracked on a review

You can click and type in the time tracking control to adjust the time you have spent during the session.

Viewing the time tracking totals

The '**Details**' view shows a summary of the progress and time tracked on each file.

Screenshot: Crucible Tracking Totals

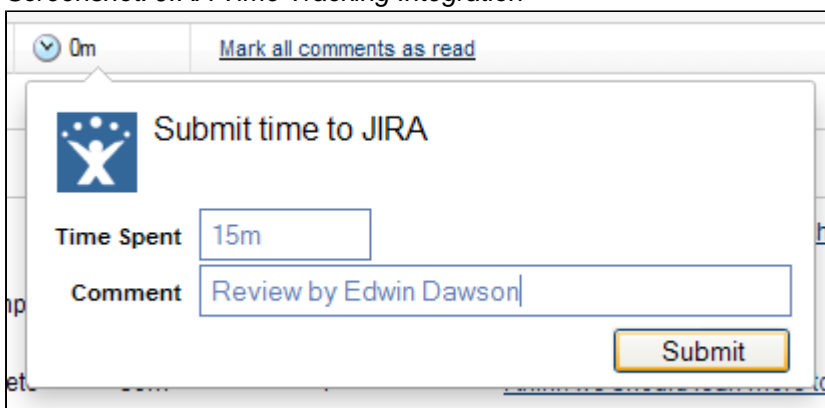
Details				
Participant	Role	Time Spent	Comments	Latest Comment
Edwin Dawson	Author & Moderator	21 mins	1	This could result in 3,000 thistles.
Geoff Crain	Reviewer - 88% complete	3 mins		
Total		24 mins	1	

JIRA integration

Using Crucible when [integrated with JIRA](#), you can update time tracking from the following locations:

- The confirmation dialog for a reviewer completing a review,
- The confirmation dialog on closing a review,
- The regular toolbar location in Crucible.

Screenshot: JIRA Time Tracking Integration



Further reading

You may also want to learn about Crucible's [Progress Tracking](#) feature.

Summarising and closing the review

Summarize is an optional step before closing a review.

To enable or disable the Summarize step, you will have to configure the permission in your [Permission Scheme](#). Crucible ships with two permission schemes:

- 'Agile' - the summarize step is disabled for all users
- 'Default' - the summarize step is enabled for the [moderator](#)

You can choose to either **summarize a review** or **close a review** at any time, given that your Permission Scheme allows it. You can skip the summarize step by directly clicking the **Close** button.

Note that you need the '[Summarize](#)', '[Close](#)' or '[Re-Open](#)' permission to summarize, close or re-open a review.

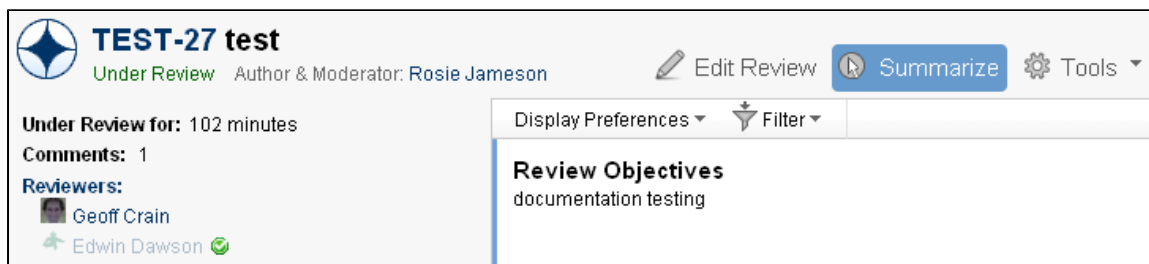
Normally, we recommend that you wait for all reviewers to [complete their reviews](#), before summarizing or closing the review.

The reviews that the reviewers have completed will be in your **Ready to Close** menu on the [Dashboard](#).

To summarize a review,

- Click **Summarize** at the right of the screen.
- Optionally enter a summary of the review.
- If you have no further [comments](#) to add, click **Close Review**; otherwise, click **Continue Without Closing**.
- On clicking **Summarize**, you may be prompted to confirm the action if there are incomplete reviews or draft comments in the review. These are warnings, however; the review can still be summarized and closed.

Screenshot: 'Summarize' button. We can see that Geoff Crain has still not finished reviewing, because there is no green tick next to his name.



Once the review is in the 'Summarize' [state](#), the moderator can optionally add a review summary, for example, to describe the outcomes/tasks/etc:

Summarize Review

Summarize the review outcomes (optional)

Testing successful. Thanks for your time, everyone.


[Continue Without Closing](#) [Close Review](#)

Screenshot: Review Closed

Review Closed

Review Summary
Testing successful. Thanks for your time, everyone.

Reviews requiring your attention:

Task	Review	Owner	Due
Review	CR-FE-2170		03 Jul

[Dashboard](#) [Close](#)

The summary is sent to all participants and is displayed at the top of the closed review.

- Reviews in the 'Review' or 'Summarize' state can be closed.
- Reviews in the 'Summarize' or 'Closed' state can be re-opened. Re-opening changes the review's state

back to 'Under Review', allowing all participants to add comments.

- See [this page](#) for a list of the states that a review can be in.



Re-opening a review is not the recommended way to 're-review'. You should create a new review with the reworked changes and link it to its parent review (create a hyperlink back to the original review in the new Review's Objectives field).

Transitioning JIRA issues

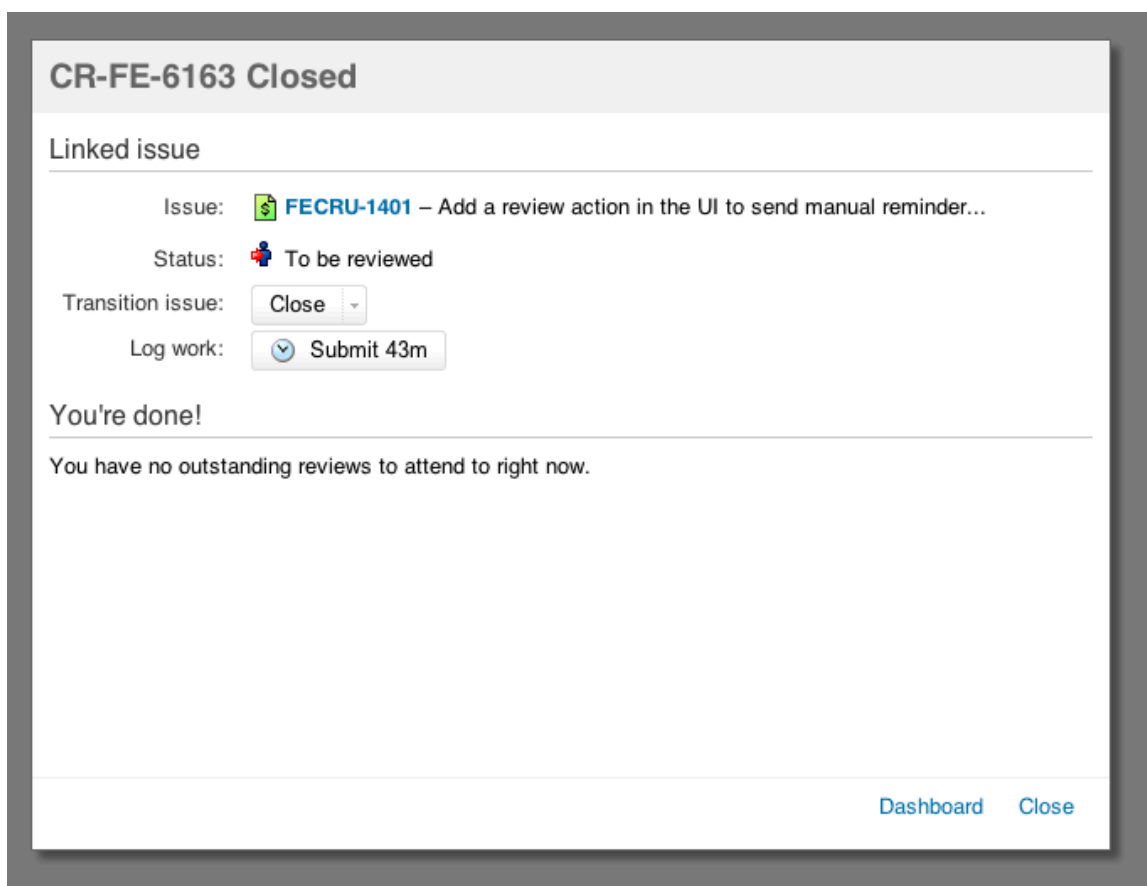
For [Crucible reviews that are linked to JIRA issues](#), you can now advance their JIRA workflow from within Crucible.

In the **Close Review** dialog, Crucible will now display any available workflow transitions for the linked issue.

Transitioning a linked issue

To transition a linked issue:

- In the Review Summary screen, choose **Access: Review** > (**Summarize** or **Close**) > **Close Review**. The possible transitions appear as buttons below the transition.



Screenshot above: Transitioning a JIRA issue in Crucible.

Notes

- JIRA administrators can [activate or deactivate JIRA issue transitions](#) (the workflow) from the JIRA administration interface.
- Only the transitions accessible by the user are displayed.
- The list of available transitions only appears if the user has visibility to any available workflow transitions.

i This feature does not support editing fields on the issue, only setting the *resolution* field if required by the transition.

Related Links

- [Using JIRA integration in Crucible reviews](#)
- [JIRA integration in Crucible](#)

Managing your reviews

See:

- [Using Review Reminders](#)
- [Moving a Review to Another Project](#)
- [Deleting a review](#)

Using Review Reminders

Crucible will automatically send reviewers a reminder email one working day before the deadline.

Review authors and moderators can also do the following:


- Send manual reminders to reviewers whose work is still pending.
- Configure preset reminders for reviews that have a deadline.

Reminders are only sent if Crucible's SMTP server is configured. Please see [Configuring the SMTP server](#).

Preset Reminders

When a review has a deadline (due date), Crucible (by default) will send a preset reminder to all of the pending reviewers, one working day before the deadline.

To edit the timeframe for the reminder, firstly edit the review, then click **Remove** next to **Send Reminder**. Now, set the day for the reminder email to be sent (a number of working days before the deadline).

 The **Send Reminder** setting is only available if the review has a due date set.

Manual Reminders

Crucible can send manually-initiated reminders to all the reviewers that have not yet completed their reviews.

To do this, click **Tools > Notify Pending Reviewers**. The reminder message will be sent immediately.

 This capability is only open to those participants who are authorised to summarize the review.

Moving a Review to Another Project

You can move reviews between projects once they have been created.


To move a review between projects:

1. Open the review. Click the '**Edit Review**' button at the top of the screen.
2. The '**Edit Review**' window will open, allowing you to change various aspects of the review.
3. Under '**Project**' click the drop-down menu. This will allow you to select a new parent project for the review.
4. Click the '**Done**' button at the bottom of the screen.

Screenshot: Changing a Review's Parent Project

Deleting a review

To delete a review you must first abandon the review. To do that, follow the instructions below.

 Deleted reviews cannot be retrieved.

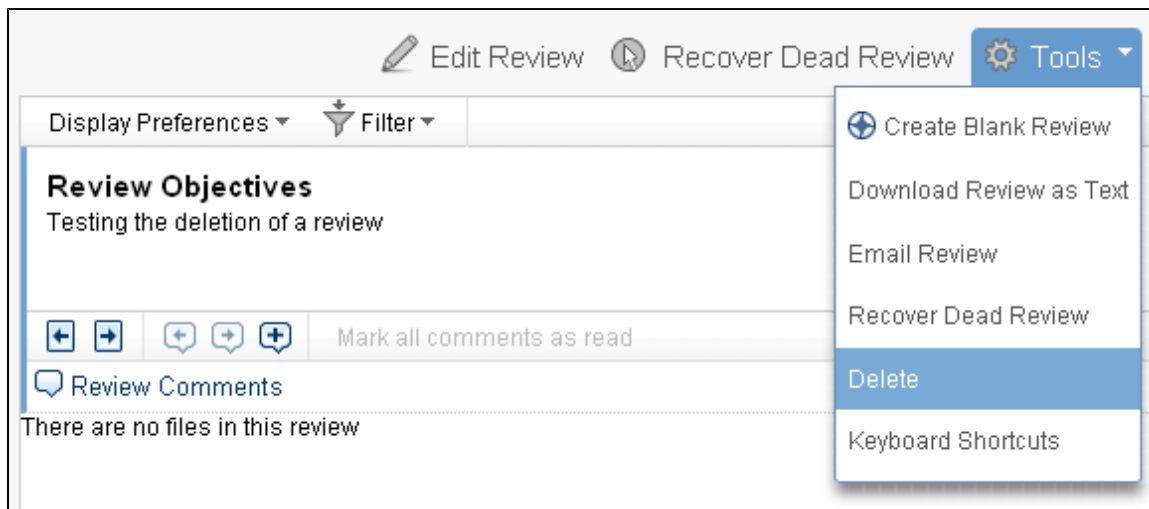
Related page:

- [Deleting hung reviews manually](#)

To abandon and then delete a review:

1. Open the review.
2. Choose **Tools** > **Abandon**.
3. Now, on the Crucible dashboard, click **My Abandoned Reviews** in the left-hand navigation bar.
4. In the list of abandoned reviews, click the name of the review you wish to remove.
5. Once the review details are displaying, choose **Tools** > **Delete**. The review will be instantly deleted.

Screenshot: Deleting a review in Crucible



Administering Crucible

The Admin area allows you to administer your Crucible instance and to manage your repositories, users and back-end settings.

Once Crucible is [installed](#) and running, you can log in to the Admin area by either:

- clicking **Administration** at the foot of the page.
- navigating to `http://HOSTNAME:8060/admin/`, where `HOSTNAME` is the name of the server on which you installed Crucible.

Once logged in as an [administrator](#) you can also get to the Admin area by clicking your user menu in the FishEye/Crucible header, and choosing **Administration**.

For information on administering FishEye, please refer to the [FishEye documentation](#).

Topics

- [Best practices for Crucible configuration](#)
- [Crucible and FishEye](#)
- [Administering projects](#)
- [Configuring repositories](#)
- [Setting up users and security](#)
- [Permissions](#)
- [Migrating to an external database](#)
- [Backing up and restoring Crucible data](#)
- [Customising Crucible](#)
- [Integrating Crucible with Other Applications](#)
- [Managing add-ons](#)

Best practices for Crucible configuration

1. Set up a separate `FISHEYE_INST` folder location on the same system for Crucible's data.

This will allow for easy upgrades of the core program and neatly separated data backup.

2. Run Crucible on a dedicated machine, accessing its data on the local file system.

This is the best environment for swift Crucible performance. Avoid running Crucible in a virtual environment.

3. Do not give Crucible projects the same key as your JIRA projects.

When naming projects, take care to ensure that the key you assign to them is not the same as any of your JIRA projects. The reason for this is, if one of your Crucible projects has the same key as one of your projects in JIRA,

then all links with that key will lead back to Crucible, rather than leading to JIRA, removing the ability to navigate between the two applications.

To avoid this, name your Crucible project keys differently. For example, you could place the following text at the beginning of each project key: CR- to distinguish it. So, for this case, if you have an existing JIRA key of 'RHUBARB', you would create a Crucible key called 'CR-RHUBARB' so that they do not conflict.

4. Do not use the built-in HSQLDB database for production use.

The Crucible built-in database, running [HSQLDB](#) is somewhat susceptible to data loss during system crashes. We recommend that you do not use HSQLDB for production systems. External databases are generally more resistant to data loss during a system crash and are more suited for production use.

To see a list of external databases that Crucible supports, see the [Supported Platforms](#) page. For information on how to set up an external database, see the [Crucible Database documentation](#).

Crucible and FishEye

This page gives an overview of the joint installation of [Crucible](#) and [FishEye](#). Both Crucible and FishEye are [Atlassian](#) products.

- **FishEye** allows you to extract information from your source code repository and display it in sophisticated reports.
- **Crucible** allows you to request, perform and manage code reviews.
- Both of these products can run in isolation. If you are using Subversion, Git, Mercurial, CVS or Perforce you can significantly enhance your Crucible experience by also using FishEye.
 - See [What happens if I decide to stop using FishEye with Crucible?](#) to learn more.



Your Crucible installation package includes the files required for FishEye

If you use FishEye and Crucible together, they run as one instance.

Purchasing and installing Crucible/FishEye

- If you install Crucible, there is no need to do a separate installation of FishEye.
- Upgrading Crucible to also use FishEye requires only a simple licence change in the admin area.
- Upgrading an existing FishEye installation to also use Crucible requires a Crucible install. You can either keep the original FishEye installation or install Crucible and FishEye as a fresh install. Refer to the guide on [upgrading from FishEye to Crucible](#).

The <Crucible home directory> and FISHEYE_INST

Throughout the Crucible documentation, references are made to the <Crucible home directory>, which refers to the location of the Crucible application. Be aware that, when Crucible is run with FishEye, this location is equivalent to the location referred to by <FishEye home directory> in the FishEye documentation.

Crucible also makes use of this FishEye environment variable:

- FISHEYE_INST – the location of the FishEye data.

Refer to the FishEye documentation for more about the [environment variables](#).

Installing the Crucible binary files

See the following for Crucible install instructions:

- [Installing Crucible on Windows](#)
- [Installing Crucible on Linux and Mac](#)

Setting up a repository for use with stand-alone Crucible

For complete instructions, see [Configuring repositories](#).

Setting up a Repository for use with FishEye and Crucible

If you intend to use Crucible and FishEye with:

- [Subversion](#), please read [Supported platforms](#), [Subversion client setup](#), and [granting permission to FishEye](#) to scan your repository.
- [Git](#), please read [Supported platforms](#) and [Git Client setup](#).
- [Perforce](#), please read [Supported platforms](#) and [Perforce Client setup](#).
- [CVS](#), please read [Supported platforms](#) and [CVS Client setup](#).
- [Mercurial](#), please read [Supported platforms](#) and [Mercurial Client setup](#).

Detailed Documentation

You can find more information in:

- Crucible [Getting Started](#)
- FishEye [Getting started](#)

Administering projects

A Crucible *project* provides a way to group and manage related [reviews](#) – typically reviews that are all involved with the same software project. A Crucible project allows you to

- define default [moderators](#), [authors](#) and [reviewers](#) for the reviews in that project.
- define which people are eligible to be [reviewers](#) for the reviews in that project.
- use [permission schemes](#) to restrict who can perform particular actions (e.g. 'Create Review') in that project.

Every Crucible review belongs to a project. Each project has a *name* (e.g. ACME Development) and a *key* (e.g. ACME). The project key becomes the first part of that project's *review keys*, e.g. ACME-101, ACME-102, etc:

By default, Crucible contains one project. This default project has the key 'CR' and the name 'Default Project'.

When administering your Crucible projects from the projects listing in the [admin area](#), you can:

- Click **Add a new project** (at the bottom of the list) to [create a new project](#).
- Click **Edit** (in the 'Crucible Settings' column) for an existing project to [edit its settings](#).
- Click **Delete** for an existing project to delete it. See [Deleting a project](#) below.

Deleting a project

Before you begin:

- By default, Crucible contains one project; it has the key 'CR' and the name 'Default Project'. This project cannot be deleted.
- Deleted projects cannot be recovered.

To delete a Crucible project:

1. Go to the [admin area](#) and click **Projects** (under 'Project Settings').
2. Click **Delete** (in the 'Crucible Settings' column) for the project you wish to remove.
3. If empty, the project instantly disappears.

If the project contains reviews, you will be prompted to either delete all the reviews in the project, or move

them into the default project.

Creating a project

A Crucible *project* provides a way to group and manage related [reviews](#) – typically reviews that are all involved with the same software project. A Crucible project allows you to

- define default [moderators](#), [authors](#) and [reviewers](#) for the reviews in that project.
- define which people are eligible to be [reviewers](#) for the reviews in that project.
- use [permission schemes](#) to restrict who can perform particular actions (e.g. 'Create Review') in that project.

Every Crucible review belongs to a project. Each project has a *name* (e.g. ACME Development) and a *key* (e.g. ACME). The project key becomes the first part of that project's *review keys*, e.g. ACME-101, ACME-102, etc:

By default, Crucible contains one project. This default project has the key 'CR' and the name 'Default Project'.

To create a new project:

1. Click your user menu in the FishEye/Crucible header, and choose **Administration**. You need to be logged in as an [administrator](#) to see this.
2. Click **Projects** (under 'Project Settings').
3. Click **Add a new project** (at the bottom of the list).
4. Complete the fields in the 'Edit Project' page (described below).
5. Click **Save** to create your new project.

Identification	<ul style="list-style-type: none"> • Name – the plain language name as displayed in the Crucible interface. • Key – the project key used when giving reviews their unique code names. If you change the key for a project all open, and closed, reviews in the project are updated with the new key.
Content	<ul style="list-style-type: none"> • Default Repository – the repository that contains the source code for this project. This is the repository that will be searched by default when you add files to a review. • Store the contents of files in reviews – check to have the source files under review stored in the Crucible database, along with the comments and review data. This retains a copy of all the source files under review even if the repository is disconnected from Crucible. See Storing all revisions under review.
Permission Scheme	Permission Scheme – the permission scheme applied to this project. (A permission scheme controls who can perform particular actions, for example, create a review.)

Moderator	<ul style="list-style-type: none"> • Enable the Moderator role – clear to have reviews run by the author only. See Enabling the moderator role. • Default Moderator – the user who will be set as the moderator for all new reviews created in the project. Leave this field blank to force the review's creator to choose a moderator. See Creating a review.
Default Reviewers	<ul style="list-style-type: none"> • By default, allow anyone to join reviews after creation – sets the default state of the Allow anyone to join checkbox on the 'Choosing reviewers' screen. • Users – set the individual users to whom new reviews will be assigned by default. • Groups – set the groups to which new reviews will be assigned by default.
Allowed Review Participants	Use Users and Groups to restrict who can have a role (author/creator/moderator/reviewer) in this project's reviews. These users will be the only ones whose names appear when a review is assigned . Leave these fields blank to allow all users to have access.
Review Duration	Default duration – the default length of time (in week days) for reviews in this project. If you leave the field blank, then no time restriction is applied. Reviews that are overdue will show up in red on the reviewer's dashboards . Note that the review duration only affects the default due date that appears when creating a review . The review's creator or moderator can specify a different date if they wish.
Default Review Objectives	Default Objectives – specify some text that will appear by default in the Review Objectives field of each new review. This text can be edited, as with any text in the Review Objectives text box. See Setting default review objectives .

Screenshot: *The Edit Project Screen*

Edit Project

Identification


Name:

Key:


Default Review Content Repository

Default Repository:

☒ Store the contents of files in reviews


Project Permissions Scheme 

Permission Scheme:

Moderator 

☒ Enable the Moderator role for this project


Default Moderator: Start typing a user name then press enter to select.

Default Reviewers 

☐ By default, allow anyone to join reviews after creation


Users: Start typing a user name then press enter to select.

Groups: Start typing a group name then press enter to select.


Allowed Review Participants  (Leave blank to let all users access this project)

Users: Start typing a user name then press enter to select.

Groups: Start typing a group name then press enter to select.

Review Duration 


Default duration in week days:

Default Review Objectives 

Default Review Objectives:

Storing all revisions under review

When creating a project or editing a project's properties, you can set Crucible to save all files (and revisions of those) associated with a review to Crucible's database. This allows you to be able to view that file content whether or not the repository is online or accessible to Crucible. It also creates an enhanced audit trail should you require it, saving the review content regardless of whether or not it is deleted or lost from the repository.

 Note that the storage of files must be set per-project. Also, the storage only applies to reviews created after Revision Storage is enabled. This means that for existing projects, pre-existing reviews will not have files stored unless you look at them again after Revision Storage is enabled.

Enabling file storage

You can enable file revision storage on the 'Edit Project' page.

For an existing project:

1. Go to the [admin area](#) and click **Projects** (under 'Project Settings').
2. Click **Edit** (in the 'Crucible Settings' column) for an existing project.
3. Check **Store the contents of files in reviews** (under 'Content').
4. Click **Save**.

Editing a project

Once a project is created, an administrator can edit the default values for settings such as repository, moderator, allowed reviewers, allowed groups and permissions scheme. These are the settings that are applied to any new review created for the project.

To edit project settings:

1. In the admin area, click **Projects** (under 'Project Settings').
2. In the list of projects, click **Edit** in the ('Crucible' column) for the required project.
3. Modify the available settings, as required:

Identification	<ul style="list-style-type: none"> • Name – the plain language name as displayed in the Crucible interface. • Key – the project key used when giving reviews their unique code names. If you change the key for a project all open, and closed, reviews in the project are updated with the new key.
Content	<ul style="list-style-type: none"> • Default Repository – the repository that contains the source code for this project. This is the repository that will be searched by default when you add files to a review. • Store the contents of files in reviews – check to have the source files under review stored in the Crucible database, along with the comments and review data. This retains a copy of all the source files under review even if the repository is disconnected from Crucible. See Storing all revisions under review.
Permission Scheme	Permission Scheme – the permission scheme applied to this project. (A permission scheme controls who can perform particular actions, for example, create a review.)
Moderator	<ul style="list-style-type: none"> • Enable the Moderator role – clear to have reviews run by the author only. See Enabling the moderator role. • Default Moderator – the user who will be set as the moderator for all new reviews created in the project. Leave this field blank to force the review's creator to choose a moderator. See Creating a review.
Default Reviewers	<ul style="list-style-type: none"> • By default, allow anyone to join reviews after creation – sets the default state of the Allow anyone to join checkbox on the 'Choosing reviewers' screen. • Users – set the individual users to whom new reviews will be assigned by default. • Groups – set the groups to which new reviews will be assigned by default.

Allowed Review Participants	Use Users and Groups to restrict who can have a role (author/creator/moderator/reviewer) in this project's reviews. These users will be the only ones whose names appear when a review is assigned . Leave these fields blank to allow all users to have access.
Review Duration	Default duration – the default length of time (in week days) for reviews in this project. If you leave the field blank, then no time restriction is applied. Reviews that are overdue will show up in red on the reviewer's dashboards . Note that the review duration only affects the default due date that appears when creating a review . The review's creator or moderator can specify a different date if they wish.
Default Review Objectives	Default Objectives – specify some text that will appear by default in the Review Objectives field of each new review. This text can be edited, as with any text in the Review Objectives text box. See Setting default review objectives .

Screenshot: The Edit Project screen in Crucible

Admin

- Repository Settings
 - Repositories
 - Defaults
 - Smart Commits
 - Web Hooks
- Project Settings
 - Projects
- User Settings
 - Users
 - User Mappings
 - Avatars
- Security Settings
 - Change Admin Password
 - Authentication
 - Administrators
 - Groups
 - Permission Schemes
- Global Settings
 - Server
 - ViewCVS URL Mappings
 - Crucible
 - Front Page Customization
 - Application Links
- Systems Settings
 - Database
 - System Info
 - Content
 - Backup
 - Shutdown
 - Plugin Manager
 - Plugin Marketplace
 - Plugin Audit Log
 - FishEye Update Check
 - Atlassian Support Tools

Edit Project

Identification

Name

Key

Content

Default Repository

☒ Store the contents of files in reviews

Permissions Scheme

Permission Scheme

Moderator

☒ Enable the Moderator role for this project

Default Moderator Start typing a user name then press enter to select.

Default Reviewers

☐ By default, allow anyone to join reviews after creation

Users Start typing a user name then press enter to select.

Groups Start typing a group name then press enter to select.

Allowed Review Participants (Leave blank to let all users access this project)

Users Start typing a user name then press enter to select.

Groups Start typing a group name then press enter to select.

Review Duration

Default duration

Default duration in week days

Default Review Objectives

Default Objectives

Enabling the moderator role

By default, Crucible projects do not have a moderator. This allows for a streamlined review handling process, where the review [author](#) is the sole person who starts and stops the review. However, you can enable the moderator role for Crucible projects, if required.

The moderator role can only be set by a Crucible administrator.

On this page:

- [Enabling the moderator role](#)
- [Removing the moderator role from an existing project](#)
- [Adding the moderator role to an existing project](#)

Enabling the moderator role

The [moderator](#) role is configurable in Crucible as a per-project setting. By default, all reviews have an [author](#) and a [moderator](#). However, the moderator role can be disabled.

To enable or disable the moderator role on a project:

1. Go to the [admin area](#) in Crucible and click **Projects** (under 'Project Settings').
2. Click **Edit** (in the 'Crucible Settings' column) for the project.
3. Check **Enable the Moderator role** (under 'Moderator').

Removing the moderator role from an existing project

When you remove the moderator role from an existing project, note that:

- Existing reviews, created before the change, will still retain the moderator they were assigned.
- Reviews created after the change will not have the moderator role.
- If the removal of the moderator conflicts with other Crucible project settings, a warning will be shown on the Projects page.

i If in doubt about the impact of removing the moderator role, you can create a new project, and set the moderator status while doing that.

Adding the moderator role to an existing project

If you add the moderator role to an existing project, note that:

- Existing reviews, created before the change, will still have no moderator.
- Reviews created after the change will have the moderator role added.
- If the addition of the moderator role conflicts with other Crucible project settings, a warning will be shown on the Project page.

i If in doubt about the impact of adding the moderator role, you can create a new project, and set the moderator status while doing that.

Setting default review objectives

To set default review objectives for all the reviews in a given project:

1. Go to the [admin area](#) and click **Projects** (under 'Project Settings').
2. Click **Edit** (in the 'Crucible Settings' column) for the project.
3. In the **Default Objectives** text box specify the text that will appear by default in the **Review Objectives** field of each new review. This text will be able to be edited, as with any text in the Review Objectives text box.
4. Click **Save**.

See [Editing a project](#) for more information about project defaults.

Screenshot: Default Review Objectives in Crucible

The screenshot shows a web form titled "Default Review Objectives". Inside the form, there is a text input field containing the text: "To check this code against Sarbanes-Oxley requirements, as part of our annual compliance check." Below the text field, there are two buttons: "Save" on the left and "Preview" on the right.

Configuring repositories

The instructions for configuring your repositories differ, *depending on your Crucible setup*:

If you are running Crucible with [Atlassian's FishEye](#), you can manage your repositories using FishEye. See the [FishEye documentation](#) for more information.

If you are running **Crucible alone**, you can manage your repositories using native repository access (bundled with Crucible):

1. Go to the Crucible [admin area](#).
2. Click **Repositories** (under 'Repository Settings'), and then **Native Repository Access** (if necessary).
3. Click **Add Existing...**
4. Refer to the following pages in the [FishEye documentation](#) for details about setting up particular repositories:
 - [CVS](#)
 - [Git](#)
 - [Mercurial](#)
 - [Perforce](#)
 - [Subversion](#)

Please also see the [What happens if I decide to stop using FishEye with Crucible](#) page for important information about light FishEye.



Crucible SCM plugins superseded by Native Repository Access

Crucible now ships with native repository access, which allows you to connect to repositories without a working version of FishEye. Crucible SCM plugins will still work, but we recommend that you stop using them in favour of native repository access. See [What happens if I decide to stop using FishEye with Crucible](#) for instructions.

Setting up a Git repository in Crucible

This page describes how to use Crucible's native repository access to connect to an external Git repository. This native access uses a FishEye component (without requiring a FishEye license) which is why the description below refers to FishEye in places. See [What happens if I decide to stop using FishEye with Crucible](#) for more information.

Crucible interacts with Git repositories by executing the Git command in a separate process. Hence, the server running Crucible needs to have Git installed. Crucible indexes Git repositories by making a private, bare clone of your repository within Crucible's cache area. It uses this private clone for most Git operations.



See the [Supported Platforms](#) page for the version of Git that is required by the server running Crucible.

Git repository setup

To add an external Git repository to FishEye:

1. Click the user menu in the FishEye/Crucible header, and choose **Administration**. You will need to be logged in as an [administrator](#) to see this link.
2. Click **Repositories** (under 'Repository Settings').
3. Click **Add Existing...**
4. Complete the wizard:

Step 1

Field	Description
Repository Type	Select Git .
Name	Enter a name for this repository. The name may contain alphanumeric, underscore, '-' or '.' characters. This will be repository name in FishEye.

Description	Enter a short description of this repository.
-------------	---

Step 2

Field	Description
Repository Location	<p>Enter the URL describing the Git repository location. FishEye will clone this repository for indexing purposes. You can use any URL recognised by Git itself. FishEye recognizes the following URL's:</p> <pre>git://server_name[:port]/path_to_repository http://server_name[:port]/path_to_repository https://server_name[:port]/path_to_repository ssh://server_name[:port]/path_to_repository file://[hostname]/path_to_repository</pre> <p>Do not use spaces in your URL.</p>
Path	<i>(optional)</i> Enter the path within the Git repository that you want FishEye to index. This lets you limit FishEye to indexing a subset of the complete Git repository.
Block Size	<i>(optional)</i> Enter how many commits you want FishEye to process in one batch. Larger values require more memory and increase the amount of work FishEye commits to the database in a single operation. Requires a repository restart.
Command Timeout	<i>(optional)</i> Enter the time that a single Git command is allowed to take to execute. Any command that exceeds this time is terminated and the operation will fail.
Rename Detection	<i>(optional)</i> Select which Git rename detection strategy FishEye will use to detect copy and move operations within the repository. Please refer to the Git documentation for more information .

Step 3

Field	Description
Store Diff Info	Tick this checkbox, if you want FishEye to cache information about file diffs in its database. This is required for some FishEye features. See Configuring Repository Details for more information on this setting.
Enable Repository After Adding	Tick this checkbox, to enable the repository after adding (i.e. when you click the 'Add' button).

Screenshots: Adding a Git repository

Step 3

Step 2

Limitations

When FishEye indexes a Git repository, it indexes by the available branches. As it processes the commits on a branch, FishEye will assign the commit to the branch it first sees the commit on. Commits are only indexed once so if a commit belongs to multiple branches, the commit will not be indexed against subsequent branches.

Furthermore, indexing of a Git repository can be slow when new branches are pushed. Performance in such cases can be improved by setting a command line option for FishEye. See this [KB page](#) for more information.

Setting up a Perforce repository in Crucible alone

This page describes how to configure Crucible access to Perforce repositories.



Crucible SCM plugins superseded by Native Repository Access

Crucible now ships with native repository access, which allows you to connect to repositories without having FishEye integrated with your Crucible instance. Crucible SCM plugins will still work, but we recommend that you stop using them in favour of native repository access. See [What happens if I decide to stop using FishEye with Crucible](#) for instructions.

Setting up a Perforce repository using native access

To set up native access to a Perforce repository:


1. Go to the Crucible [admin area](#).
2. Click **Repositories** (under 'Repository Settings'), and then **Native Repository Access** (if necessary).
3. Click **Add Existing...**
4. Refer to [Perforce](#) in the FishEye documentation for detailed information about completing the wizard.

Setting up the Crucible Perforce SCM plugin

This section describes how to configure the [Crucible Perforce SCM plugin](#) to access Perforce repositories.

To set up Perforce in Crucible alone:

1. Ensure that the Perforce executable file is on the system path, in the Crucible server's [Environment Variables](#)
2. Start Crucible and go to the [admin area](#).
3. Click **Manage Add-ons** (under 'Systems Settings').
4. Find and click on the **Crucible Perforce SCM Plugin** (click **Show System Plugins**) and then click **Configure**.
5. Click **Add a repository** and complete the form:

Name	Choose a unique name for the repository.
Repository Server	Enter the base URL and port for the repository, for example: <code>example.com:666</code> .
Repository Path	Add the path to your Perforce repository. For example: <code>//depot/code/example/main</code> .
Perforce Username	Enter the username of the Perforce account that Crucible will use. (optional)  Note that this account should only have read-only access to the repository.
Perforce Password	Enter the password of the Perforce account that Crucible will use. (optional)

6. Click **Save**.

Your Perforce repository is now set up for Crucible. You will be able to select changesets from it when creating reviews.

Notes

- There is no 'initial scanning' required in this process, as Crucible's access to Perforce (when running alone) is strictly on-demand. Data is not indexed, hence there is no scanning.
- Crucible executes the Perforce command-line tool to enable this functionality.

Setting up a Subversion repository in Crucible alone

This page describes how to configure Crucible access to Subversion repositories.



Crucible SCM plugins superseded by Native Repository Access

Crucible now ships with native repository access, which allows you to connect to repositories without a working version of FishEye. Crucible SCM plugins will still work, but we recommend that you stop using them in favour of native repository access. See [What happens if I decide to stop using FishEye with Crucible](#) for instructions.

Setting up a Subversion repository using native access

To set up native access to a Subversion repository:

1. Go to the Crucible [admin area](#).
2. Click **Repositories** (under 'Repository Settings'), and then **Native Repository Access** (if necessary).
3. Click **Add Existing...**
4. Refer to [Subversion](#) in the FishEye documentation for detailed information about completing the wizard.

Setting up the Crucible Subversion SCM plugin

This section describes how to configure the [Crucible Subversion SCM plugin](#) to access Subversion repositories.

To set up Subversion in Crucible alone:

1. Start Crucible and go to the [admin area](#).
2. Click **Manage Add-ons** (under 'Systems Settings').
3. Find and click on **Crucible Subversion SCM Plugin** (click **Show System Plugins**) and then click **Configure**.

4. Click **Add a repository** and complete the form:

Name	Choose a unique name for the repository.
Repository Root	Enter the repository root URL for the repository. See Finding your repository root below for instructions on how to find this.
Repository Path	Add the path on the base URL where your repository. For example, if you used the root URL above, and the full path to your Subversion instance is 'http://svn.example.com/svn5/', you would enter 'svn5' into this field.
SVN Username	Enter the username of the Subversion account that Crucible will use. Note that this account should only have read-only access to the repository.
SVN Password	Enter the password of the Subversion account that Crucible will use.

5. Click **Save**.

Your Subversion repository is now set up for Crucible. You will be able to select changesets from it when creating reviews.

Note that there is no 'initial scanning' required in this process, as Crucible's access to Subversion (when running alone) is strictly on-demand. Data is not cached, hence scanning is not required.

Finding your repository root

Run the following command:

```
svn info SVN_URL
```

where SVN_URL is the complete URL of the repository you want to add.

You will get something like the following:

```
>svn info http://svn.example.com/svn5/
Path: svn5
URL: http://svn.example.com/svn5/
Repository Root: http://svn.example.com/
Repository UUID: ce062a09-193b-427a-a7b3-a85007076e5d
Revision: 83
Node Kind: directory
Last Changed Author: ryan
Last Changed Rev: 83
Last Changed Date: 2009-05-07 10:48:41 +1000 (Thu, 07 May 2009)
```

Next to "Repository Root" is the URL you should define as your repository root. The path will be whatever is remaining.

Enabling reviews from the server file system in Crucible

You can set up the server file system to be a code repository for Crucible. You will be able to browse files and directories on the hard drive and select files from it when creating reviews.

To set up the file system as a code repository in stand-alone Crucible:

1. Go to the [admin area](#) in Crucible.
2. Click **Manage Add-ons** (under 'Systems Settings').
3. Find and click on **Crucible FileSystem SCM Plugin** (click **Show System Plugins**, then click **Enable** if that is displayed).
4. Click **Configure** then **Add a repository**.
5. Complete the form:

Name	Choose a unique name for the repository.
Base Path	Choose the lowest level of directory that Crucible will access.

6. Click **Save**.

Setting up a repository via FishEye

To use FishEye to access an external source control repository, such as Subversion or Git, for Crucible, see the FishEye documentation for how to [add a repository](#).

- [CVS](#)
- [Git](#)
- [Mercurial](#)
- [Perforce](#)
- [Subversion](#)



Building index and cache

FishEye needs to build an index and cache of the contents of your repository, so some information will not appear in FishEye until this is complete. This may take some time to complete, depending on the size of the repositories.



We recommend you access the repository with a user that has only **read** access to the repository.


Setting up users and security

User management and security settings are covered in the [FishEye documentation](#).

Other related security resources

- [Configuring User Managed Mappings](#)
- [Creating a permission scheme](#)
- [Creating a user](#)
- [How to Report a Security Issue](#)
- [Security Advisory Publishing Policy](#)
- [Security Patch Policy](#)
- [Severity Levels for Security Issues](#)

Creating a user

 Some user management functions are identical in both Crucible and FishEye. See more [user management documentation](#) in the [FishEye documentation](#).

There are two types of user accounts:


- 'Built-in' user accounts — these are stored in the local database for FishEye/Crucible.
- 'External' user accounts — these are stored in an external directory (e.g. LDAP), if configured. See [Configuring External Authentication Sources](#).

 **Note regarding external directories:**

- New users can only be added if they already exist in the external directory. Your external directory will not be modified.
- If you have enabled 'auto-add' for your [external directory](#), users who don't exist locally in FishEye/Crucible will be automatically added the first time they log in to Crucible.

To add a new user:

1. In the [admin area](#), click **Users** under 'User Settings'.
2. Click **Add user** at the bottom of the screen.
3. Configure the following settings:

Username	Type the user's login name. You can use the following characters: <ul style="list-style-type: none">• letters and numbers• hyphen ('-')• underscore ('_')• 'at' sign ('@')
Display name	The user's display name appears in the user interface.
Email	The email address is where the user will receive notifications .
Auth Type	Select either built-in or the appropriate external directory where the user identity will be stored.
Password	(For built-in users only)  The user can easily change their own password later.

4. Click **Add**.

Add New User

Information about the new user

Username	<input type="text"/>
Display name	<input type="text"/>
Email	<input type="text"/>
Auth Type	<input type="button" value="built-in"/>
Password	<input type="password"/>
Confirm Password	<input type="password"/>
<input type="button" value="Add"/> <input type="button" value="Cancel"/>	

Permissions

A *permission* is the ability to perform a particular action in Crucible, e.g. 'Create Review'.

Permissions in Crucible are managed through the use of permission schemes.

A *permission scheme* assigns particular [permissions](#) to any or all of the following:

- Particular [Users](#).
- Particular [Groups](#).
- All logged-in users.
- [Anonymous Users](#)
- People in particular [Review Roles](#), such as:
 - [Author](#)
 - [reviewer](#)
 - [creator](#)
 - [moderator](#)

The scheme's permissions will apply to all reviews belonging to the [project\(s\)](#) with which the scheme is associated.

You can create as many permission schemes as you wish. Each permission scheme can be associated with many projects or just one project, allowing you to tailor appropriate permissions for individual projects as required.

Further reading

- [Creating a permission scheme](#)
- [Associating a permission scheme with a project](#)
- [Agile permissions schemes in Crucible](#)

Creating a permission scheme

This page contains information on how to create a permission scheme in Crucible.

On this page:

- [Creating a permission scheme](#)
- [Editing a permission scheme](#)

- [List of Crucible permissions](#)

Creating a permission scheme

To create a permission scheme:

1. In the [admin area](#), click **Permission Schemes**, under 'Security Settings'.
2. Under 'Add a new permission scheme', enter a **Name** to uniquely identify your new scheme.
3. Click **Add**. Your new permission scheme will have the default assignees shown in the [permissions table](#) below.
4. If required, edit this permission scheme, as described below.

i Next step: see [Associating a permission scheme with a project](#).

Screenshot: Adding a Permission Scheme

Add a new permission scheme

Name

Add

Editing a permission scheme

To edit a permission scheme:

1. In the [admin area](#), click **Permission Schemes** under 'Security Settings'.
2. Click **edit** for the scheme you wish to change.
3. Click **edit** for the permission you wish to modify, and choose the appropriate assignee(s) for this permission:

Allow Anonymous users	Assign this permission to anonymous users
Allow All logged in users	Assign this permission to all logged-in users
Individuals	Enter a username to assign this permission to a particular user.
Groups	Enter a group name to assign this permission to a particular group of users.
Review Participants	Select check boxes to assign this permission to users who belong to any of the Reviewer / Creator / Author / Moderator participants .

Click **Save** when you are done.

! Note: for ongoing ease of management, it is recommended that you grant permissions to [groups of participants](#) rather than to individual users.

4. Click **Save**.

Screenshot: Editing the 'Close' permission

Edit User Action

Close: *Ability to close a review once it has been summarized.*

☐ Allow All logged in users

Individuals Start typing a user name then press enter to select.

☒ Seb Ruiz

Groups Start typing a group name then press enter to select.

Review Participants ☒ Reviewer ☒ Creator ☒ Author ☒ Moderator

List of Crucible permissions

The following permissions are available:

Permission	Description	Default Assignees
Abandon	Ability to abandon (i.e. cancel) a review.	Creator Author Moderator
Approve	Ability to approve a review (i.e. issue it to the reviewers).	Creator Author Moderator
Close	Ability to close a review once it has been summarised.	Creator Author Reviewer Moderator
Comment	Ability to add or remove a comment to or from a review.	Creator Author Reviewer Moderator
Complete	Ability of a reviewer to change their individual review status to Complete.	Reviewer
Create	Ability to create a review.	All logged-in users
Delete	Ability to delete a review.	Creator Author Moderator
Edit Review Details	Ability to edit a review's details and change the set of revisions being reviewed.	Creator Author Reviewer Moderator
Re-Open	Ability to re-open a closed or abandoned review.	Creator Author Reviewer Moderator

Recover	Ability to resurrect an abandoned (i.e. cancelled) review.	Creator Author Reviewer Moderator
Reject	Ability to reject a review submitted for approval (i.e. prevent it from being issued to reviewers).	Creator Author Moderator
Submit	Ability to submit a review for approval (i.e. request that the review be issued to the reviewers).	Creator Author Moderator
Summarise	Ability to summarise a review. (Normally this would be done after all reviewers have completed their review.)	
Uncomplete	Ability of a reviewer to change their individual review status from Complete to Uncomplete.	Reviewer
View	Ability to view a review. (People without this permission will not know that the review exists.)	Anonymous users All logged-in users Creator Author Reviewer Moderator

Associating a permission scheme with a project


This page explains how to associate a permission scheme with a Crucible project and show details of the default permission schemes included with Crucible.

On this page:

- [Associating a permission scheme with a Crucible project](#)
- [Overview of the permission schemes bundled with Crucible](#)
 - [Default permission scheme settings](#)
 - [Agile permission scheme settings](#)
- [Related links](#)

Associating a permission scheme with a Crucible project

To associate a permission scheme with a project:

1. In the [admin area](#), click **Projects** (under 'Project Settings').
2. Find the project you wish to associate with your permission scheme, and click **Edit** (in the 'Crucible Settings' column).
3. Under 'Permissions Scheme', choose a scheme from the **Permission Scheme** list.
 -  You will be shown a list of the schemes that have been created in Crucible. You can [create a new permission scheme](#) if necessary.
4. Click **Save**.

Overview of the permission schemes bundled with Crucible


Crucible comes with two permission schemes. 'Default' and 'Agile'. The following tables show the default settings

in detail; note that these can be easily edited by admin users to suit your needs.

Default permission scheme settings

This table shows the various permissions and which user groups have them by default.

Permission	Anonymous	All Logged In	Individuals	Groups	Review Roles
Abandon	false	false	None	None	Creator, Moderator
Approve	false	false	None	None	Moderator
Close	false	false	None	None	Moderator
Comment	false	false	None	None	Reviewer, Creator, Author, Moderator
Complete	false	false	None	None	Reviewer
Create	false	true	None	None	No roles. All logged-in users
Delete	false	false	None	None	Creator, Moderator
Edit Review Details	false	false	None	None	Creator, Moderator
Recover	false	false	None	None	Creator, Moderator
Reject	false	false	None	None	Moderator
Re-Open	false	false	None	None	Moderator
Submit	false	false	None	None	Creator
Summarize	false	false	None	None	Moderator
Uncomplete	false	false	None	None	Reviewer
View	false	true	None	None	Reviewer, Creator, Author, Moderator All logged-in users

 The default permission scheme has changed since Crucible 1.6.

Agile permission scheme settings

This table shows the various permissions and which user groups have them by default.

Permission	Anonymous	All Logged In	Individuals	Groups	Review Roles
------------	-----------	---------------	-------------	--------	--------------

Abandon	false	false	None	None	Creator, Author, Moderator
Approve	false	false	None	None	Creator, Author, Moderator
Close	false	false	None	None	Reviewer, Creator, Author, Moderator
Comment	false	false	None	None	Reviewer, Creator, Author, Moderator
Complete	false	false	None	None	Reviewer
Create	false	true	None	None	No roles. All logged-in users
Delete	false	false	None	None	Creator, Author, Moderator
Edit Review Details	false	false	None	None	Reviewer, Creator, Author, Moderator
Recover	false	false	None	None	Reviewer, Creator, Author, Moderator
Reject	false	false	None	None	Creator, Author, Moderator
Re-Open	false	false	None	None	Reviewer, Creator, Author, Moderator
Submit	false	false	None	None	Creator, Author, Moderator
Summarize	false	false	None	None	No roles.
Uncomplete	false	false	None	None	Reviewer
View	true	true	None	None	Reviewer, Creator, Author, Moderator Anonymous users All logged-in users

Related links

- [Creating a permission scheme](#)

Agile permissions schemes in Crucible

This page contains information about using and editing Agile permission schemes in Crucible.

Understanding the Agile Permissions Scheme

[Agile development](#) teams may not want to use the default Crucible permission schemes that require one person to approve or summarise reviews. Crucible ships with a pre-defined Agile permission scheme. By Agile, we mean permission schemes that have no [moderator](#) and very liberal permissions, suited to Agile or self-organising teams.

To use the Agile permissions scheme when creating a project, simply select **agile** from the **Permissions Scheme** list on the 'Edit Project' screen.

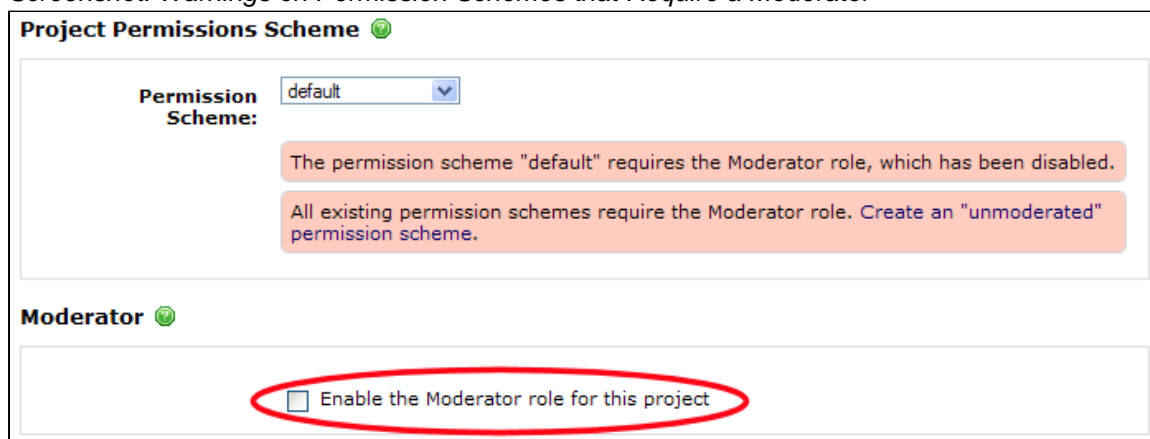
Considerations


i If you began your installation of Crucible with Crucible 2.1 or later, then this permission scheme will appear in the list of permission schemes in the administration menu.


! If you have upgraded from an earlier version of Crucible (pre Crucible 2.0), then the Agile permission may not appear by default. However, you can still create the equivalent by [disabling the moderator](#) when creating projects, allowing freer access to summarising, closing and generally tending to Crucible reviews.

i If you [disable the moderator role](#) on the Edit Project screen, then Crucible will check the current permission scheme. If the current permission scheme requires a moderator, a warning will be shown and you will be prompted to create a new permission scheme which will be called 'Agile' (or Agile-X if the name Agile already exists, where X is a number appended to the scheme name). The new permissions scheme will not require a moderator to carry out any actions.

Screenshot: Warnings on Permission Schemes that Require a Moderator




Project Permissions Scheme 

Permission Scheme: default 

The permission scheme "default" requires the Moderator role, which has been disabled.

All existing permission schemes require the Moderator role. Create an "unmoderated" permission scheme.

Moderator 

☐ Enable the Moderator role for this project

Migrating to an external database

This page contains information about migrating Crucible from its default embedded HSQL database to an external database. Advantages of using a database other than the embedded HSQL database include:

- **Improved Protection Against Data Loss:** The Crucible built-in database, running [HSQLDB](#) is somewhat susceptible to data loss during system crashes. External databases are generally more resistant to data loss during a system crash. HSQLDB is not supported in production environments and should only be used for evaluation purposes.
- **Performance & Scalability:** if you have many users on your Crucible instance, running the database on the same server as FishEye may slow it down. When using the embedded database, the database will always be hosted and run on the same server as Crucible.
- **Data Stored in the Crucible Database:** The Crucible database stores all information besides the cache

for repository scans. This means all reviews, comments, review states, user data and user preferences information.

On this page:

- [Supported Databases](#)
- [Support for Other Databases](#)
- [Notes](#)

Supported Databases

You can use a number of alternatives to the built-in HSQLDB database for storing FishEye and Crucible's relational data. The supported alternative databases are listed on the [Supported Platforms](#) page. Please note, that only the database versions listed on that page are supported.

The pages linked below outline the steps required to switch to an external database:

- [Migrating to MySQL](#)
- [Migrating to Oracle](#)
- [Migrating to PostgreSQL](#)
- [Migrating to SQL Server](#)

Support for Other Databases

If you are using another database product that you would like to see supported, please create a [JIRA issue](#) for it under the Crucible project.


Notes

Crucible uses Read Committed transaction isolation. There is no requirement to configure this explicitly when setting up an external database - Crucible will configure the transaction isolation when connecting to the database.

Migrating to MySQL

This page describes how to use FishEye/Crucible with both MySQL Enterprise Server and MySQL Community Server. Note that when they are used together, FishEye and Crucible share the same external database.

To switch to a MySQL database, install MySQL and then follow the steps below. Please note that during the migration of database servers, the FishEye/Crucible instance will not be available to users or to external API clients.

 Note that for FishEye 2.9+, the JDBC driver for MySQL is *not bundled* with FishEye/Crucible (due to [licensing restrictions](#)).



MySQL 5.6.x Compatibility

For MySQL 5.6, FishEye requires 5.6.11 or later.

Prerequisites

To start with:

1. Install a *supported version* of MySQL. Check the [Supported platforms](#) page for the exact versions that are supported.
2. Download and install the JDBC driver, if necessary. Note that for FishEye 2.9+, the JDBC driver for MySQL is *not bundled* with FishEye/Crucible (due to [licensing restrictions](#)).
 - a. Download the **MySQL Connector/J JDBC driver** from the [MySQL download website](#).
 - b. Expand the downloaded **zip/tar.gz file**.

- c. Copy the `mysql-connector-java-x.y.zz-bin.jar` file to your `FISHEYE_INST/lib` directory. If the `lib/` directory doesn't already exist, you will need to create it.
- d. Restart FishEye/Crucible.

On this page:

- [Prerequisites](#)
- [Step 1. Create a MySQL database](#)
- [Step 2. Configure FishEye/Crucible to use MySQL, and migrate data](#)

Related pages:

- [Migrating to PostgreSQL](#)
- [Migrating to Oracle](#)
- [Migrating to SQL Server](#)
- [Migrating to an external database](#)
- [Troubleshooting Databases](#)

Step 1. Create a MySQL database

Set up a MySQL database as follows:

- Configure the database to use the InnoDB storage engine
- Create a database on MySQL for FishEye/Crucible to use
- Create a FishEye user on the database
- Configure the database to use `utf8` character set encoding
- Configure the database to use `utf8_bin` collation (to ensure case sensitivity).

Here is an example of how to do that. When FishEye/Crucible and MySQL run on the same machine (accessible through `localhost`), issue the following commands (replacing `fisheyeuser` and `password` with you own values):

```
mysql> SET GLOBAL storage_engine = 'InnoDB';
mysql> CREATE DATABASE fisheye CHARACTER SET utf8 COLLATE utf8_bin;
mysql> GRANT ALL PRIVILEGES ON fisheye.* TO 'fisheyeuser'@'localhost'
IDENTIFIED BY 'password';
mysql> FLUSH PRIVILEGES;
mysql> QUIT
```

This creates an empty MySQL database with the name `fisheye`, and a user that can log in from the host that FishEye is running on who has full access to the newly created database. In particular, the user should be allowed to create and drop tables, indexes and other constraints.

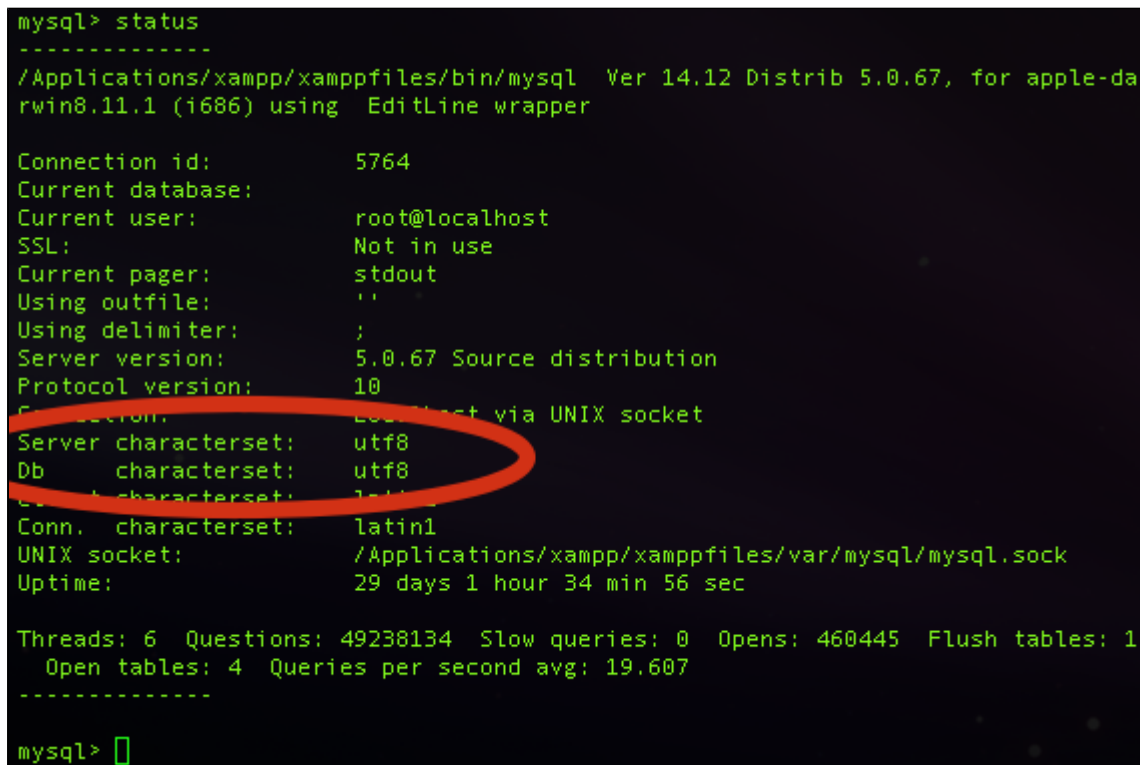
You will also need to set the `Server Characterset` to `utf8`. This can be done by adding the following in `my.ini` for Windows or `my.cnf` for other operating systems (create the file at `/etc/my.cnf` if it doesn't already exist). It has to be declared in the `Server` section, which is the section after `[mysqld]`:

```
[mysqld]
character-set-server=utf8
```


You'll need to restart MySQL for that change to take effect. Now use the `status` command to verify database character encoding information:

```
mysql> use fisheye;  
mysql> status;
```

Screenshot: Using the MySQL status command



```
mysql> status  
-----  
/Applications/xampp/xamppfiles/bin/mysql Ver 14.12 Distrib 5.0.67, for apple-da  
rwin8.11.1 (i686) using EditLine wrapper  
  
Connection id:          5764  
Current database:  
Current user:           root@localhost  
SSL:                    Not in use  
Current pager:          stdout  
Using outfile:          ''  
Using delimiter:        ;  
Server version:         5.0.67 Source distribution  
Protocol version:       10  
Connection:             Localhost via UNIX socket  
Server character set:    utf8  
Db character set:        utf8  
Charset character set:    latin1  
Conn. character set:     latin1  
UNIX socket:            /Applications/xampp/xamppfiles/var/mysql/mysql.sock  
Uptime:                 29 days 1 hour 34 min 56 sec  
  
Threads: 6 Questions: 49238134 Slow queries: 0 Opens: 460445 Flush tables: 1  
Open tables: 4 Queries per second avg: 19.607  
-----  
mysql> 
```

 Both the server and database character set must be UTF-8. You may not initially notice a problem because of the [character set overlap](#) but this is indeed a requirement. We've verified that when using a charset such as Swedish 7 bit as the server charset and UTF-8 as the database charset data corruption is easy to reproduce and obvious. This proves that the server character set is as important and that data corruption is possible when there is a charset mismatch. We absolutely cannot suggest a configuration where the server charset and database charset are anything other than UTF-8.

Step 2. Configure FishEye/Crucible to use MySQL, and migrate data

In order to migrate to a different database backend, you must create a backup of sql data, configure the database and finally import the data via a backup restoration process. This can be done from either the FishEye/Crucible administration console, which streamlines the process, or via the command line tool which FishEye/Crucible provides.

From FishEye/Crucible's administration area

1. Navigate to the Database page in FishEye/Crucible's Administration console.

To log in to the Admin area, you can either:

- click **Administration** at the foot of the page.
- navigate to <http://HOSTNAME:8060/admin/>, where `HOSTNAME` is the name of the server on which you installed Fisheye.

Once logged in as an [administrator](#) you can also get to the Admin area by clicking your user menu in the

FishEye/Crucible header, and choosing **Administration**.

2. Click **Edit** -> **Test Connection** to verify that FishEye/Crucible can log in to the database.
3. Select **MySQL** from the database type.
4. Fill in the appropriate fields, replacing the host, port, database name, username and password using the same connection details as used when creating the MySQL database in Step 1 above.
5. Click **Test Connection** to validate the values.

Screenshot: Testing the connection

Database Configuration 🟢

To switch to a different database, specify the database's configuration settings in the form below and use the Test Connection button to verify that the database can be used. We are currently connected to the Oracle database at jdbc:oracle:thin:@localhost:1521:xe.

Changes to connection pool settings will not take effect until the application is restarted before the new settings will take effect.

Type: **MySQL** (Built-In, PostgreSQL, Oracle)

Driver Location: **User Supplied - FISHEYE_INST/lib**

URL: **jdbc:mysql://localhost/dbname**

User Name: **username**

Password: *********

Minimum Pool Connections: **5**

Maximum Pool Connections: **20**

Parameters: **useUnicode=true
characterEncoding=UTF8
connectionCollation=UTF8_bin**

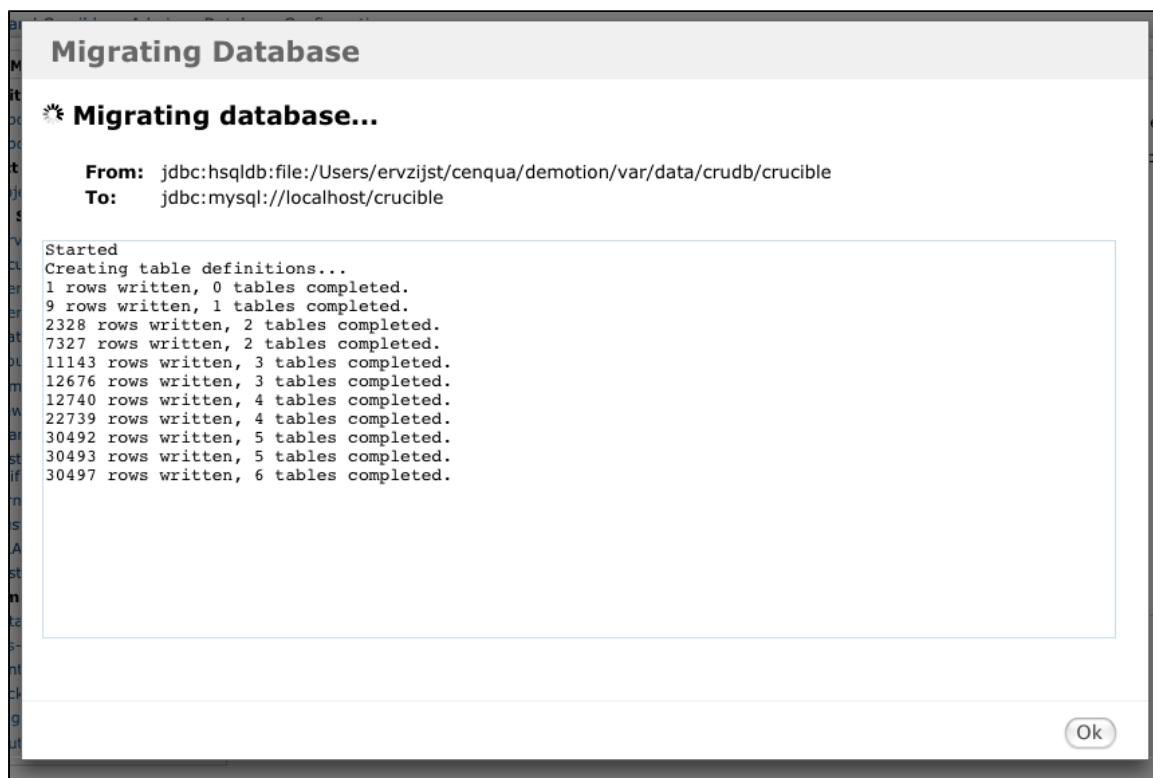
Buttons: **Cancel**, **Save & Migrate**, **Test Connection**, **Save**

If this fails, verify that you have the MySQL JDBC driver `.jar` file in the classpath (see [Prerequisites](#) section above for instructions on how to install the driver). Also, ensure that the database user can log in to the database from the machine that FishEye/Crucible is running on and that all the required privileges are present.

6. Click **Save & Migrate** to start the migration process.

During the migration process (which will take several minutes, depending on the size of your database and network throughput), the product will be inaccessible to users and external API clients. Users will see a maintenance screen that informs them of the process. Should the migration fail for any reason, FishEye/Crucible will not switch to the new database and report on the encountered problems. Because the destination database may now contain some, but not yet all data, drop all tables, indexes and constraints before attempting a new migration.

Screenshot: Migrating the database



From the command line

1. Create a backup of the `sql` data from the FishEye/Crucible instance. Read [Backing up and restoring FishEye data](#) and [Backing up and restoring Crucible data](#) for information on how to create a backup.
2. Run the following command from the `bin` directory in `FISHEYE_INST`

```
$ ./fisheyectl.sh restore --sql \  
    --file /path/to/backup.zip \  
    --dbtype mysql \  
    --jdbcurl jdbc:mysql://hostname/dbname \  
    --username crucible \  
    --password password
```

3. When the import is complete, FishEye/Crucible can be started and will use MySQL.

Migrating to Oracle

To switch to an Oracle database, install Oracle and follow the steps below. When they are used together, FishEye and Crucible share the same external database.

Please note that during the migration of database servers, the FishEye/Crucible instance will not be available to users or to external API clients.

i Oracle support for FishEye/Crucible and Crucible was introduced in version 2.5.0. In order to migrate to Oracle, your instance must be *currently running* at least version 2.5. If you are running an older version, then you will be required to first upgrade FishEye/Crucible and then migrate.

On this page:

- [Step 1. Install and Create a Oracle Database](#)
- [Step 2. Configure FishEye/Crucible to use Oracle, and Migrate Data](#)

Related pages:

- [Migrating to MySQL](#)
- [Migrating to PostgreSQL](#)
- [Migrating to SQL Server](#)
- [Migrating to an external database](#)
- [Troubleshooting Databases](#)

Step 1. Install and Create a Oracle Database

1. The JDBC drivers for Oracle are bundled with FishEye/Crucible. Skip to step 2 if this meets your needs. If you want to install a specific, different version of the bundled JDBC driver, download the download the Oracle JDBC driver .jar file from the Oracle website (<http://www.oracle.com/technetwork/database/features/jdbc/index-091264.html>) and copy the .jar file to your FISHEYE_INST/lib directory (create the lib/ directory if it doesn't already exist). Move the existing JDBC .jar file to another location (and back it up). Restart FishEye/Crucible to have it pick up the new driver.
2. Because creating a database with Oracle is a complex process, we recommend speaking to your resident DBA for creation of a new database for usage with Crucible. We *highly* recommend installing Oracle with the AL32UTF8 encoding otherwise you may see encoding issues in the product.

Step 2. Configure FishEye/Crucible to use Oracle, and Migrate Data

In order to migrate to a different database backend, you must create a backup of sql data, configure the database and finally import the data via a backup restoration process. This can be done from either the FishEye/Crucible administration console, which streamlines the process, or via the command line tool which FishEye/Crucible provides.

From FishEye/Crucible's Administration

1. Navigate to the Database page in FishEye/Crucible's Administration console.

To log in to the Admin area, you can either:

- click **Administration** at the foot of the page.
- navigate to <http://HOSTNAME:8060/admin/>, where HOSTNAME is the name of the server on which you installed Fisheye.

Once logged in as an **administrator** you can also get to the Admin area by clicking your user menu in the FishEye/Crucible header, and choosing **Administration**.

2. Then click '**Edit -> Test Connection**' to verify that FishEye/Crucible can log in to the database.
3. Select `Oracle` from the database type
4. Fill in the appropriate fields, replacing the host, port, database name, username and password using the same connection details as used when creating the Oracle database in Step 1 above.
5. Click on `Test Connection` to validate the values

Screenshot: Testing the Connection

If this fails, verify that you have the Oracle JDBC driver `.jar` file in the classpath (by placing the `.jar` file in `FISHEYE_INST/lib`). Also, ensure that the database user can log in to the database from the machine that FishEye/Crucible is running on and that all the required privileges are present.

- Click **'Save & Migrate Data'** to start the migration process.

During the migration process (which will take several minutes, depending on the size of your database and network throughput), the product will be inaccessible to users and external API clients. Users will see a maintenance screen that informs them of the process. Should the migration fail for any reason, FishEye/Crucible will not switch to the new database and report on the encountered problems. Because the destination database may now contain some, but not yet all data, drop all tables, indexes and constraints before attempting a new migration.

Screenshot: Migrating the Database

From the command line

1. Create a backup of the **sql data** from the FishEye/Crucible instance. Information on how to create a backup can be found at [Backing up and restoring FishEye data \ Backing up and restoring Crucible data](#)
2. Run the following command from the `bin` directory in `FISHEYE_INST`

```
$ ./fisheyectl.sh restore --sql \  
    --file /path/to/backup.zip \  
    --dbtype oracle \  
    --jdbcurl jdbc:oracle:thin:@hostname:port:dbname \  
    --username crucible \  
    --password password
```

3. When the import is complete, FishEye/Crucible can be started and will use Oracle.

Migrating to PostgreSQL

To switch to a PostgreSQL database, install PostgreSQL and follow the steps below. When they are used together, FishEye and Crucible share the same external database.

Please note that during the migration of database servers, the FishEye/Crucible instance will not be available to users or to external API clients.

On this page:

- [Step 1. Install and Create a PostgreSQL Database](#)
- [Step 2. Configure FishEye/Crucible to use PostgreSQL, and Migrate Data](#)

Related pages:

- [Migrating to MySQL](#)
- [Migrating to Oracle](#)
- [Migrating to SQL Server](#)
- [Migrating to an external database](#)
- [Troubleshooting Databases](#)

Step 1. Install and Create a PostgreSQL Database

1. The JDBC drivers for PostgreSQL are bundled with FishEye/Crucible. Skip to [Step 2](#) if this meets your needs. If you want to install a specific, different version of the bundled JDBC driver, download the PostgreSQL JDBC driver `.jar` file from the [PostgreSQL website](#) and copy the `.jar` file to your `FISHEYE_INST/lib` directory (create the `lib/` directory if it doesn't already exist). Move the existing JDBC `.jar` file to another location (and back it up). Restart FishEye/Crucible to have it pick up the new driver.
2. Create a new database user (replacing 'username' and 'password' with the appropriate values):

```
$ psql  
> create user username password 'password';
```

3. Create a UTF-8 database and make the newly created user the owner:

```
> create database crucible ENCODING 'UTF-8' OWNER username;
```

4. Make sure the user has full access to the database:

```
> grant all on database crucible to username;
```

Step 2. Configure FishEye/Crucible to use PostgreSQL, and Migrate Data

In order to migrate to a different database backend, you must create a backup of sql data, configure the database and finally import the data via a backup restoration process. This can be done from either the FishEye/Crucible administration console, which streamlines the process, or via the command line tool which FishEye/Crucible provides.

From FishEye/Crucible's Administration

1. Navigate to the **Database** page in FishEye/Crucible's Administration console.

To log in to the Admin area, you can either:

- click **Administration** at the foot of the page.
- navigate to <http://HOSTNAME:8060/admin/>, where `HOSTNAME` is the name of the server on which you installed Fisheye.

Once logged in as an **administrator** you can also get to the Admin area by clicking your user menu in the FishEye/Crucible header, and choosing **Administration**.

2. First click **Edit** and then click **Test Connection** to verify that FishEye/Crucible can log in to the existing database.
3. Select **PostgreSQL** from the database **Type**.
4. Fill in the appropriate fields, using the same connection details as used when creating the PostgreSQL database in Step 1 above.
 - a. **Driver Location**: either your own PostgreSQL JDBC or the **Bundled** one that came with FishEye
 - b. **URL**: create this field by replacing the host, port, and database name with your own (i.e. `jdbc:postgresql://localhost:5432/<dbname>` e.g. `jdbc:postgresql://localhost:5432/crucible`)
 - c. **Username**: your DB username
 - d. **Password**: your DB password
 - e. **Minimum Pool Connections**: 5 is the default
 - f. **Maximum Pool Connections**: 20 is the default
 - g. **Parameters**: (one per line)
 - i. `useUnicode=true`
 - ii. `characterEncoding=UTF8`
5. Click **Test Connection** to validate the values.

Screenshot: Testing the Connection

Database Configuration

To switch to a different database, specify the database's configuration settings in the form below and use the Test Connection button to verify that the database can be used. We are currently connected to the PostgreSQL database at jdbc:postgresql://localhost:5432/crucible.

Changes to connection pool sizes require a full restart before the new settings will take effect.

Type: Built-In PostgreSQL Oracle MySQL

Driver Location:

URL: jdbc:postgresql://localhost:5432/crucible

User Name: crucible

Password: *****

Minimum Pool Connections: 5

Maximum Pool Connections: 20

Parameters: useUnicode=true
characterEncoding=UTF8

Cancel Save & Migrate Test Connection Save

If this fails, verify that you have the PostgreSQL JDBC driver .jar file in the classpath (by placing the .jar file in FISHEYE_INST/lib). Also, ensure that the database user can log in to the database from the machine that FishEye/Crucible is running on and that all the required privileges are present.

- Click **Save & Migrate** to start the migration process.

During the migration process (which will take several minutes, depending on the size of your database and network throughput), the product will be inaccessible to users and external API clients. Users will see a maintenance screen that informs them of the process. Should the migration fail for any reason, FishEye/Crucible will not switch to the new database and report on the encountered problems. Because the destination database may now contain some, but not yet all data, drop all tables, indexes and constraints before attempting a new migration.

Screenshot: Migrating the Database

Migrating Database

Database migration successful.

From: jdbc:hsqldb:file:/Users/seb/dev/crucible/fe/output/dist_inst/var/data/crddb/crucible
To: jdbc:postgresql://localhost/crucible

507 rows written, 31 tables completed.
 511 rows written, 33 tables completed.
 512 rows written, 33 tables completed.
 514 rows written, 34 tables completed.
 529 rows written, 35 tables completed.
 531 rows written, 37 tables completed.
 532 rows written, 37 tables completed.
 532 rows written, 39 tables completed.
 533 rows written, 39 tables completed.
 541 rows written, 40 tables completed.
 543 rows written, 41 tables completed.
 546 rows written, 43 tables completed.
 547 rows written, 43 tables completed.
 558 rows written, 44 tables completed.
 572 rows written, 46 tables completed.
 Adding database constraints...
 Updating database to latest version...
 Switching to new database at: jdbc:postgresql://localhost/crucible...
 Complete

Ok

From the command line

1. Create a backup of the `sql` data from the FishEye/Crucible instance. Information on how to create a backup can be found at [Backing up and restoring FishEye data / Backing up and restoring Crucible data](#).
2. Run the following command from the `bin` directory in `FISHEYE_INST`:

```
$ ./fisheyectl.sh restore --sql \  
    --file /path/to/backup.zip \  
    --dbtype postgresql \  
    --jdbcurl jdbc:postgresql://hostname/dbname \  
    --username crucible \  
    --password password
```

3. When the import is complete, FishEye/Crucible can be started and will use PostgreSQL.

Migrating to SQL Server

To migrate FishEye/Crucible to an SQL Server database, install SQL Server and follow the steps below. When they are used together, FishEye and Crucible share the same external database.

Before you begin

Check that you are using version of SQL Server that is supported for use with FishEye. See [Supported platforms](#).

An existing Java bug prevents connection with Java 1.6.0_29 and above (including Java 1.7.0). Read more about the issue and possible workarounds [here](#).

Step 1. Install and create an SQL Server database

See the [SQL Server Online resources \(MSDN\)](#) for instructions on how to install and create an SQL Server database.

Please note the following FishEye/Crucible-specific information when installing and creating an SQL Server database:

- The JDBC jtds drivers for SQLServer are bundled with Crucible. We do not support using the Microsoft distributed jdbc driver.
- The FishEye database user must have permission to connect to the database and to create and populate tables.
- The database user should **not** be the database owner, but **should** be in the `db_owner` role. (See [SQL Server Startup Errors](#) for details.)
- Your database server must be configured to use the `Latin1_General_CS_AS` collation set.
- Your database server should be configured to use snapshot mode for the transaction isolation level. To enable snapshot mode, run:

```
ALTER DATABASE crucible  
    SET READ_COMMITTED_SNAPSHOT ON;
```

See [this](#) and [this](#) Microsoft MSDN articles for more information.

Note that it is preferable to run the above command after stopping FishEye/Crucible (and with no other applications connected to the SQL Server database), especially if you find that the `alter` statement does not complete quickly.

On this page:

- [Before you begin](#)
- [Step 1. Install and create an SQL Server database](#)
- [Step 2. Configure FishEye/Crucible to use SQL Server and migrate data](#)

Related pages:

- [Migrating to MySQL](#)
- [Migrating to PostgreSQL](#)
- [Migrating to SQL Server](#)
- [Migrating to an external database](#)
- [Troubleshooting Databases](#)

Step 2. Configure FishEye/Crucible to use SQL Server and migrate data

In order to migrate to a different database backend, you must create a backup of your SQL data, configure the database and finally import the data via a backup restoration process. This can be done from either the Crucible [administration console](#), which streamlines the process, or via the [command line tool](#) which Crucible provides. These two methods are described below. The following resources may be of interest:

- [Backing up and restoring FishEye data](#)
- [Backing up and restoring Crucible data](#)
- [SQL Server Online resources \(MSDN\)](#)

Configuring and migrating via FishEye/Crucible's administration console

Before you begin:

- Note, during the migration process (which will take several minutes, depending on the size of your database and network throughput), **the FishEye/Crucible instance will be inaccessible to users and external API clients**. Users will see a maintenance screen that informs them of the process.
- If you are attempting a migration after a previous migration has failed, you must drop all tables, indexes and constraints before attempting a new migration. This is because the destination database may contain data from the previous migration attempt.
- Verify that you have the jtds JDBC driver .jar file in the classpath (by placing the .jar file in FISHEYE_INST/lib).
- Ensure that the database user can log in to the database from the machine that FishEye/Crucible is running on and that all the required privileges are present.

To configure FishEye/Crucible to use SQL Server and migrate data using the administration console:

1. Navigate to the **Database** page in FishEye/Crucible's Administration console.

To log in to the Admin area, you can either:

- click **Administration** at the foot of the page.
- navigate to <http://HOSTNAME:8060/admin/>, where HOSTNAME is the name of the server on which you installed Fisheye.

Once logged in as an [administrator](#) you can also get to the Admin area by clicking your user menu in the FishEye/Crucible header, and choosing **Administration**.

2. Configure FishEye/Crucible to use SQL Server, as follows:

- Click **Edit** -> **Test Connection** to verify that FishEye/Crucible can log in to the database.
- Select **SQLServer** from the **Type** dropdown.
- Complete the appropriate fields, replacing the **URL** (host, port and database name), **User Name** and **Password** as required, using the same connection details as used when creating the SQL

Server database in Step 1 above.

NOTE: The default SQL server instance listens on port 1433. If your instance is not the default, use the port number that is associated with your particular instance.

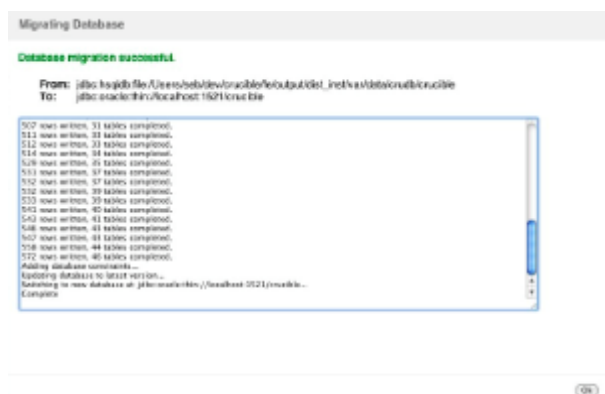
e.g. URL: jdbc:jtds:sqlserver://localhost:1433;databaseName= *your database name here*;



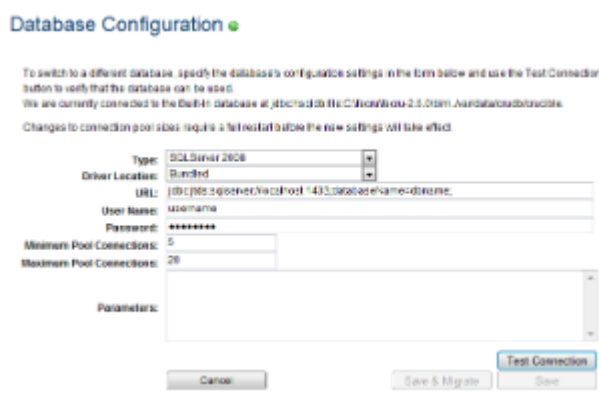
Please ensure that you use a **SQL Server** user account to log into your database, not a Windows user account.

1. Click **Test Connection** to verify that FishEye/Crucible can log in to the database (see 'Testing the Connection' screenshot below).
2. Click **Save & Migrate Data** to start the migration process (see 'Migrating the Database' screenshot below). If the migration fails, FishEye/Crucible will not switch to the new database and will report the problems encountered.

Screenshots: Configuring FishEye/Crucible to use SQL Server and migrating data (click to view full-size images)



2. Migrating Data



1. Configuring the Database

Configuring and migrating via the command line

To configure FishEye/Crucible to use SQL Server and migrate data using the command line:

1. Create a backup of the `sql` data from the FishEye/Crucible instance. Information on how to create a backup can be found at [Backing up and restoring FishEye data](#) \ [Backing up and restoring Crucible data](#)
2. Run the following command from the `bin` directory in `FISHEYE_INST`:

```

$ ./fisheyectl.sh restore --sql \
  --file /path/to/backup.zip \
  --dbtype sqlserver2008 \
  --jdbcurl
"jdbc:jtds:sqlserver://hostname:port;databaseName=dbName;" \
  --username crucible \
  --password password
  
```

3. When the import is complete, FishEye/Crucible can be started and will use SQLServer.

Backing up and restoring Crucible data

Crucible data can be backed up from the admin interface or command line. This page contains the command syntax, options and the required procedure to backup and restore your Crucible instance.

Backing up Crucible data

The Crucible admin backup process

1. Navigate to the Crucible Admin area (click the **Administration** link in the footer of any Crucible page).
2. Click **Backup** (under 'System' heading in the left navigation bar).
3. The **File Path** field indicates where the backup file (in .zip format) will be stored. You can manually edit this path to change it. Under 'Include', a list of check boxes is shown, with the following items:

On this page:

- Backing up Crucible data
 - The Crucible admin backup process
 - The Crucible command line backup process
 - Components of a Crucible backup
 - Backup command line options
 - Command line examples
 - Advanced backup command line settings
 - Known limitations
 - Scheduling Crucible backups
 - Restoring Crucible data
 - Restoring Crucible data from the command line
 - Command line restore options
 - Advanced command line restore settings
- Plugins and their configuration data
 - SQL database
 - Web templates
 - Uploaded files and local copies of files under review.
 - Repository and application caches.
 - i** Repository and application caches contain temporary data stored from repository scans and library caches that improve startup time. Both will be recreated automatically by re-scanning the source repositories, so the backup files can be reduced by a significant amount by excluding these (if the cost of re-scanning is acceptable).

4. Once you have chosen your options, click **Create Backup Now**.

Screenshot: The Crucible Backup Screen

Backup

FishEye and Crucible will be unavailable until the backup completes

Depending on the number of repositories and reviews, the backup may take a long time to complete and may require large amounts of disk space (especially when you are including the cache). Please make sure you have enough disk space before proceeding.

Your managed repositories will not be backed up!

FishEye does not automatically backup content stored in your managed repositories. Please ensure that a backup process which is satisfactory to your requirements is in place. [Read more](#)

Create a new backup

Filename

Specify the filename on the server where FishEye and Crucible should export.
This file will be created in /opt/j2ee/domains/atlassian.com/eac-fisheye/data/backup

Include

- ☒ ActiveObjects
- ☒ repository and application caches
- ☒ plugins and their configuration data
- ☒ SQL database
- ☒ web templates
- ☒ uploaded files and local copies of files under review

Choose the components that FishEye and Crucible should include in the backup.

or [Manage Scheduled Backups](#)

The Crucible command line backup process

- i** Your Crucible instance must be running during the backup.

1. Open a command line interface on the Crucible server computer.
2. Navigate to the `<Crucible home directory>/bin/` directory.
3. Run the backup command on the command line with the desired options.
4. The backup is created as a new Zip archive file and placed in the `FISHEYE_INST/backup/` directory.
 - i** Note that if your Crucible instance uses a custom `FISHEYE_INST` directory; make sure the environment variable is properly set when running the backup command.

Components of a Crucible backup

The Crucible backup is highly configurable and allows for many different configurations. This table shows the various components of the backup, what they are for and how they can be used.

Component	Purpose	Defaults
SQL Database	Refers to the SQL content database (used by both FishEye and Crucible and containing all user profile data, reviews and their comments).	Backed up by default.
Cache	The cache contains data that reflects the state of FishEye's repositories. Without it, FishEye must re-scan its repositories after a backup is restored. The cache also contains OSGI library data that increases startup time. These too can be excluded and will be generated automatically when the application is started.	The cache is not backed up by default as it tends to be large (running a risk of pushing the maximum file size for Java backups), whilst also representing replaceable data.
Plugins	Plugins are 3rd-party extensions that you may have installed, and configuration for all plugins (this includes configuration for Crucible's set of standard plugins).	Configuration data for all plugins are backed up by default, as well as all plugins installed in <code>FISHEYE_INST/var/plugins/user</code> .
Templates	In this context, these are custom freemarker templates that you or your users have created. They live in <code>FISHEYE_INST/template</code> .	Templates are backed up by default. You can choose to exclude them from the backup if your templates directory is covered by some other backup mechanism.
Uploads	In this context, uploads refers to files which are added to Crucible via the web interface (such as patch file reviews). It also includes each repository-backed file that went under review, when Crucible is configured to make a local copy of every reviewed file .	Uploads are backed up by default. You can choose not to back them up for example when the <code>FISHEYE_INST/var/data/uploads</code> directory is already covered by some other backup mechanism.

ActiveObjects	Configuration data stored by plugins	Backed up by default
---------------	--------------------------------------	----------------------

Note that the backup will always include the configuration data (`config.xml`), your license file and the FishEye user data.

Backup command line options

These examples are for use in a Linux-like operating system. When using these commands on Windows, use the file name `fisheyectl.bat` and use the correct slashes. Run the command from the `<Crucible home directory>/bin/` directory.

The basic syntax of the backup command is as follows:

```
$ ./fisheyectl.sh backup [OPTIONS]
```

To see inline help for all backup options, run the following command in the `<Crucible home directory>/bin/` directory:

```
$ ./fisheyectl.sh backup --help
```

|| Option || Switch || Description || Default setting ||

Quiet mode	-q OR --quiet	Suppresses output	No
Output filename	-f OR --file	Specify a different path and filename to the <code>FISHEYE_INST/backup/backup_YYYY-DD-MM_HHmm.zip</code> file. When filename is omitted, the backup filename contains the date and time.	<code>FISHEYE_INST/backup/</code> is the default directory.
Compression level	--compression OR -c	Sets the Zip compression level, from 1-9. Runs at level 6 if no argument is passed.	Yes (6)

Anonymise	-a OR --anonymise	Anonymises the SQL database by replacing all text with 'x'. This is only useful when sending a backup to Atlassian as part of a support case. Please do not anonymise data unless the Support Engineer handling your support case has specifically requested the data anonymised (as often anonymised data will not help reproduce the issue).	No
Cache Backup	--cache	Include the repository caching files in the backup. These hold information gained from scanning the repositories and can be quite large (many gigabytes). However, it can shorten the time needed to re-scan the repositories after data is restored.	No. By default, the cache data is excluded from backups.

Command line examples

i These examples are for use in a Linux-like operating system. When using these commands on Windows, use the filename `fishyeectl.bat` and use the correct slashes. Run the command from the `<Crucible home directory>/bin/` directory.

Backing up with compression of 9, quiet mode and setting an output location

```
$ ./fishyeectl.sh backup --compression 9 -q -f
/application_backups/fisheye/20090215.zip
```

Backup including cache data (also includes all default components)

```
$ ./fishyeectl.sh backup --cache
```

Restoring a backup with cache data (also restores all default components)

```
$ ./fishyeectl.sh restore --cache
```

Advanced backup command line settings

In some cases it might be preferable to only backup a limited set of items. This could be useful when your instance uses an external database such as MySQL or PostgreSQL and your DBA has already configured automatic backups in the database. The commands below allow this.

Option	Switch	Description	Default
Exclude Plugins	--no-plugins	Excludes plugins from the backup.	No. By default, plugins are included in every backup.
Exclude Templates	--no-templates	Excludes templates from the backup.	No. By default, templates are included in every backup.
Exclude Uploads	--no-uploads	Excludes uploaded files (such as patch reviews, stored in Crucible's internal database) from the backup.	No. By default, uploads are included in every backup.
Exclude SQL Database	--no-sql	Excludes the SQL content database used by both FishEye and Crucible.	No. By default, this data is included in every backup.
Show help	--help OR -h	Shows inline help on the command line.	No

Known limitations

Please note that the below limitations are common for any Java based backup tool.

Archives Containing Over 65535 Files

Versions of Java earlier than v1.6 (b25) are incapable of handling zip files that contain more than 65,535 files. The solution for this problem is to either upgrade to a version of Java later than v1.6 (b25), or ensure that the archive does not exceed the threshold (contains less than 65,535 files). The FishEye cache (not included in backups by default) can be a contributor of many small files. Hence, exclude the cache from backups if this is likely to be a concern.

Archives Larger Than 4GB

Java has trouble reading and writing zip files that are larger than 4GB. As of release 1.5 Java appears capable of reliably creating archives that are over 4GB, but remains unable to extract them. For details see [Sun's bug report](#). Also be aware of the fact that some file systems (including [FAT32](#)) have trouble with files larger than 4GB.

As a workaround, make sure you do not create archives that are larger than 4GB. The FishEye cache (not included in backups by default) can be a contributor of a lot of small files (although these tend to compress very well). If you still want to archive everything and end up with an archive that is too large, consider creating separate backups for the FishEye cache and uploaded files respectively.

Scheduling Crucible backups

To set a schedule for automatic backups, open the administration screen and click '**Backup**' under '**System**' on the left navigation bar. The 'Backup' page opens. Now, click the link '**Manage Scheduled Backups**' at the bottom of the page. The 'Scheduled Backups' page opens.

On the 'Scheduled Backups' page, click '**Edit**' to adjust the backup schedule. Set the desired options and click '**S**

ave'.

The options for scheduled backups are detailed in the table below.

Option name	Description	Allowed Values
Disable Scheduled Backups	Stops regular backups from taking place.	On (disabled) or Off (enabled)
Backup path	The path where the backup .zip file will be stored.	Any system or network path that FishEye or Crucible can access.
Backup file prefix	Characters that will be added to the beginning of the backup file name.	Any string of characters that can be used as part of a filename on the local operating system.
Backup file date pattern	Sets a date for the next (or initial) backup to take place.	Any valid date in the format <code>yyyy_MM_dd</code> (year, month, day of the month).
Backup frequency	Sets how often the backup will take place.	Can be set to ' every day ', ' every Sunday ', ' Monday to Friday ' and ' first day of the month '.
Backup time (HH:mm)	The time when the backup will take place.	Any valid 24-hour time in the format <code>HH:mm</code> (hours, minutes).
Include	Specifies which items must be included in the backups (these components are explained at the top of this page).	As per the options for regular on-demand backup (These components are explained at the top of this page).

Screenshot: Scheduling Backups in FishEye and Crucible

Scheduled Backups

⚠ Please choose the schedule for your backups carefully. FishEye and Crucible will be unavailable for the duration of the backup process.

⚠ Your managed repositories will not be backed up!
FishEye does not automatically backup content stored in your managed repositories. Please ensure that a backup process which is satisfactory to your requirements is in place. [Read more](#)

Schedule backups

Disable scheduled backups ☐ Switch scheduled backups on and off.

Backup directory **/opt/j2ee/domains/atlassian.com/eac-fisheye/data/backup**
The location to store the backups. Edit config.xml to change this setting.

Backup file prefix
The prefix for the generated backup file.

Backup file date pattern
The date/time format you specify will be added to the file prefix to differentiate between backup files.

Backup frequency How often do you want FishEye and Crucible to run a backup.


Backup Time (HH:mm)
What time would you like FishEye and Crucible to run the backup, e.g. 17:30.
Note that this is 24 hour notation in local server time. Current local server time is: 02:04.

Include ☐ ActiveObjects
☒ repository and application caches
☒ plugins and their configuration data
☒ SQL database
☒ web templates
☒ uploaded files and local copies of files under review
Choose the components that FishEye and Crucible should include in the backups.

 Be aware that scheduled backups can fill up disks unless you regularly move or delete old archives.

Restoring Crucible data


Restoring Crucible data from the command line

 There is currently no way to restore a backup from the web interface because Crucible must be shut down during a data restore.




Restoring a backup will irreversibly overwrite the data of your installation with the data from the backup archive.

If you made a backup from production which connected to an external database, and restore this backup to a test server without specifying another database to restore too, you will drop and restore to your production database. Thus when restoring to a test server, always ensure you specify the correct database to restore to (or restore to an in-built database).

1. [Install Crucible](#) into a new, empty directory (this must be the same version that the backup was created from, or later).
 Note that you cannot restore data into versions of Crucible which are older than the version that created the backup.
2. Make sure the Crucible instance is not running.
3. Open a command line interface on the Crucible server computer.
4. Run the restore command on the command line with the desired options.
5. The specified elements will be restored.
6. Start the Crucible instance.
7. When using FishEye integrated with Crucible, you will need to re-index your repositories after restoring data, unless the backup archive was created with the `--cache` option.

Command line restore options

 These examples are for use in a Linux-like operating system. When using these commands on Windows, use the filename `fishyeectl.bat` and use the correct slashes. Run the command from the `<Crucible home directory>/bin/` directory.

The basic syntax of the restore command is as follows:

```
$ ./fishyeectl.sh restore -f /path/to/backup_2009-10-02_1138.zip [OPTIONS]
```

To see inline help for all backup options, run the following command in the `<Crucible home directory>/bin/` directory:

```
$ ./fishyeectl.sh restore --help
```

Restores a FishEye/Crucible backup instance.

If you are using an external database (as opposed to the default built-in database), make sure the JDBC driver file is present in the `FISHEYE_INST/lib` directory when running restore.

Option	Switch	Description	Default
--------	--------	-------------	---------

Suppress output	--quiet OR -q	Suppress the output messages from the restore program on the command line.	No
Choose file to restore from	--file PATH/FILENAME OR -f PATH/FILENAME	Restore the backup from PATH/FILENAME.	Yes (required)
Show inline help	--help OR -h	Displays help for options on the command line.	No

Advanced command line restore settings

By default, the restore program will restore all items found in the backup archive (so if you included the caches using the `--cache` option, these will automatically be restored). However, it is possible to only restore a subset of items from the backup, by explicitly specifying the item names on the command line and only those will be restored.

Option	Switch	Description
Restore FishEye cache	--cache	Restore the repository cache backup.
Restore plugins	--plugins	Restore 3rd-party plugins and their configuration data.
Restore templates	--templates	Restore freemarker templates from the backup (the restored instance will use the built-in templates).
Restore uploads	--uploads	Restore uploads (e.g. patch files uploaded into Crucible and contents of files under review).
Restore Crucible reviews	--sql	Restore the SQL database containing user profiles, reviews and review comments.
Set database type	--dbtype OR -t	SQL database type ('mysql', 'postgresql', 'sqlserver2008' or 'built-in'). Only required when restoring to a database location different to that used at backup time.
Set JDBC URL	--jdbcurl OR -j	JDBC URL of the SQL database. Only required when restoring to a database location different to that used at backup time (not applicable for 'built-in').

Set JDBC username	--username OR -u	JDBC username of the SQL database. Only required when restoring to a database location different to that used at used at backup time (not applicable for 'built-in').
JDBC password	--password OR -p	JDBC password of the SQL database. Only required when restoring to a database location different to that used at used at backup time (not applicable for 'built-in').
JDBC class	--driver OR -d	Specifies the JDBC driver class name needed to access the SQL database. Only required when restoring to a database location different to that used at used at backup time and when using a different JDBC driver than the standard driver associated with the database specified through --dbtype. (Not applicable for 'built-in'.)

Notes on migrating backup data

When the process restores a SQL database, it looks at the configuration data (`config.xml`) included in the backup archive to learn which database product was used and how to connect to it. When Crucible uses the built-in HSQLDB database (which is the default), the restored instance will also use that.

However, when the restored instance will use a different database than the backed up instance (for instance, HSQLDB was used at the time the backup was created, but it needs to be restored on MySQL), use the command line options to point the process to the new database.

Command line example: migrating backup data to MySQL

i These examples are for use in a Linux-like operating system. When using these commands on Windows, use the filename `fishyectl.bat` and use the correct slashes. Run the command from the `<Crucible home directory>/bin/` directory.

Restoring to a Crucible instance that uses a different database (ensure the mysql driver jar file is present in the `FISHEYE_INST/lib` directory)

```
$ ./fishyectl.sh restore \
--username john \
--password smith \
--jdbcurl jdbc:mysql://localhost:3306/crucible \
--dbtype mysql \
--file /path/to/backup_2009-10-02_1138.zip
```

Customising Crucible

This section describes the ways in which you can configure Crucible.

- [Customising the Welcome Message](#)
- [Customising email notifications](#)
- [Customising the defect classifications](#)
- [Configuring User Managed Mappings](#)
- [Enabling Access Logging in Crucible](#)

Customising the Welcome Message

To customise the welcome message which is shown when Crucible opens, access the administration page and click '**Customize Front Page**' under '**Global Settings**' on the left navigation bar.

The '**Customize Front Page Messages**' page opens.

On this page, you can provide your own custom text for the Crucible welcome message that is displayed to users when they first log in. You can also provide custom Support text, providing the contact details of your own support organisation, which also appears on the opening page.

You can enter text into the boxes provided for either message and click the small '**Save Welcome Message**' or '**Save Support Message**' button to save it, or enter text for both messages and click '**Save All**'. The changes are made immediately.

Screenshot: Crucible Customize Welcome and Support Messages

Using HTML

The content in the welcome screen can be arranged using basic HTML tables, image references or anchor tags such as the following:

```
<a href="http://www.atlassian.com">Link to Atlassian Home Page</a>
```

Restoring the default messages

To revert to the default Welcome or Support messages, simply delete all text shown in the text box and click the corresponding '**Save**' button.

Manually editing the opening screen

You can also directly edit the XML file that contains the welcome and support messages. This file is called `config.xml`, located in your installation folder.

To do this, simply add the following XML tags to `config.xml`:

```
<content>
  <front-page-message>Example welcome message here</front-page-message>
  <support-message>Example support message here</support-message>
</content>
```

Customising email notifications

Email notifications in Crucible can be customised to change their formatting, by editing template files. This page contains instructions for this process.

Editing Crucible email templates

Template files for Crucible are stored in the `<Crucible home directory>/template/crucible/` folder.

There are sets of templates for both HTML and plain-text emails. Note that these templates do not support embedding full diffs into notifications. They are only for changing the appearance and order of certain content inside the messages.



If you edit the templates of an operational Crucible instance, you may disrupt notifications that are being sent at that time. To avoid this, shut Crucible down during template editing.

Editing the subject line

1. Open the `crucible-notification-subject.ftl` template file from `<Crucible home directory>/template/crucible/` in a text editor. This template is used as the subject template for all Crucible email notifications.
2. Type in new text for the email subject, ensuring that all of the content is contained within line 1 of the template.
3. Save and close the file.
4. Restart Crucible to activate the new templates.

Editing the header

Header information will be included at the beginning of the email body text.

1. Open the `'crucible-notification-header.ftl'` template file from `<Crucible home directory>/template/` in a text editor. This template is used as the header template for all Crucible email notifications.
2. Add your new header content.
3. Save and close the file.
4. Restart Crucible to activate the new templates.

Editing the footer

Footer information will be included at the end of the email body text.

1. Open the `'crucible-notification-footer.ftl'` template file from `<Crucible home directory>/template/` in a text editor. `'crucible-notification-footer.ftl'` is used as the footer template for all Crucible email notifications.
2. Add your new footer content.
3. Save and close the file.

- Restart Crucible to activate the new templates.

After an edit, the change to the email template will take place immediately. No restart is required.

i Try and avoid editing the live template file, as Crucible may try to use it while you are editing. This could have unpredictable results. Instead, back up the template file (it's wise to keep original versions of all these files), edit a copy you have made, then overwrite the 'live' template once you have finished.

Advanced editing of Crucible email templates

The email notification templates use the [Freemarker](#) format. Freemarker is a general templating engine enabling automated content.

If you are familiar with Freemarker, more advanced customisations can be made to the email notification templates. However, you make such adjustments at your own risk.

Crucible email template files

The following template files for Crucible notification are stored in the `<Crucible home directory>/template/` folder.

Template filename	Purpose
crucible-notification-subject.ftl	Subject template
crucible-notification-header.ftl	Header template
crucible-notification-footer.ftl	Footer template
state-closed-notification.ftl	State Closed template
all-completed-notification.ftl	All Completed template
state-changed-notification.ftl	State Changed template
completed-notification.ftl	Completed template
general-notification.ftl	General notification template
uncompleted-notification.ftl	'Uncompleted' template
all-no-longer-completed-notification.ftl	All-No-Longer-Completed template
comment-notification.ftl	Comment template
reply-notification.ftl	Reply template
review-precis-plain.ftl	Precis template
review-reminder-notification.ftl	Review Reminder template

See also [Customising FishEye Email Notifications](#).

Freemarker Data Model for Email Templates

Customising Crucible email templates with Freemarker

See the [Freemarker documentation](#) for instructions on Freemarker syntax. Use the templates that ship with Crucible as a guide to the properties available on each object.

Specific email types will have extra data associated with them, and this data will be available in that particular template (but not in others).

Example

The syntax to access the data-model, using the data model object '**link**' as an example, place this code into the email at the desired position.

```
${notification.link}
```

Customising the defect classifications

This page explains how to customise defects and their classifications in Crucible.

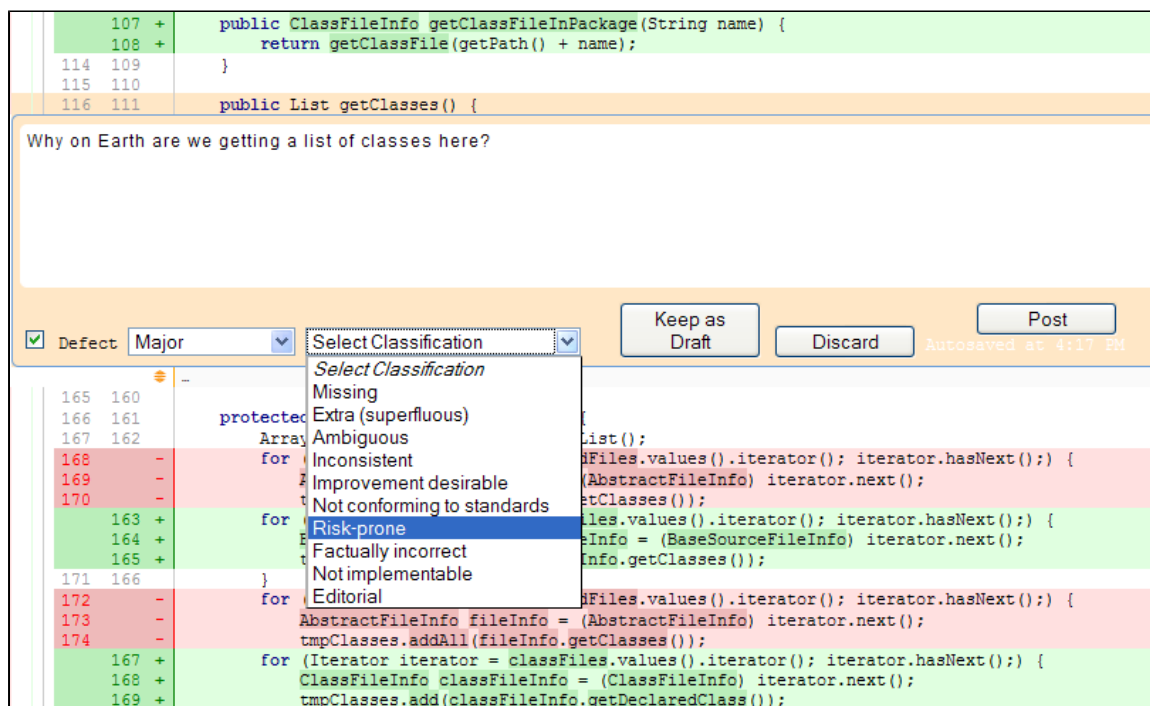
On this page:

- [Defects in Crucible comments](#)
- [Changing classification settings](#)
- [Default Crucible classifications](#)
 - [Ranking](#)
 - [Classification](#)

Defects in Crucible comments

Defects are comments made by [reviewers](#) that indicate a problem in a review. Defects can be classified by rank and type. Custom classifications can also be defined. The default classifications are shown in the screenshot below.

Screenshot: The list of defect classifications

**Changing classification settings**

i Only Crucible Admin users can edit defect classifications.

To change the default classifications:

1. In the Admin area, click **Crucible** under 'Global Settings'.
2. Click **Edit Defect Classifications**.
3. You can add and remove classifications, and add fields to, or remove fields from, classifications.

Any changes made to defect classifications will only apply to reviews created after the change is saved.

Screenshot: Editing defect classifications in Crucible

Defect Classifications

*Note: Changes will only apply to new reviews
Current defect classification version is 9.*

Ranking

Name

Ranking

Values

Major

remove

Minor

remove

Add field

Remove this Classification

Classification

Name

Classification

Values

Wrong

remove

Can be improved

remove

Risk-prone

remove

Security hole

remove

Over engineered

remove

Code duplication

remove

Add field

Remove this Classification

Add a new Classification

Save changes

Cancel

Default Crucible classifications

There are two default defect classifications that are preset in Crucible: Ranking and Classification. These settings (and their sub-categories) can be edited or removed; other custom classifications can be added.

Ranking

Crucible users can rank a defect as **Major** or **Minor**, indicating the importance of the defect.

Classification

This setting helps to provide more detail about the defect. This classification can be set to one of the options described in the following table:

Value	Description
Missing	The defect applies to code or information that is missing (absent).
Extra (superfluous)	The defect applies to code or information that should be removed.
Ambiguous	The defect applies to code or information that is not clear or easy to understand.

Inconsistent	The defect applies to code or information that is applied in several different ways.
Improvement desirable	The defect applies to code or information that needs to be revised.
Not conforming to standards	The defect applies to code or information that breaks established conventions.
Risk-prone	The defect applies to code or information that takes unacceptable risks.
Factually incorrect	The defect applies to code or information that is wrong.
Not implementable	The defect applies to code or information that may be impossible to create.
Editorial	The defect applies to code or information where the classification as a defect may be subject to personal opinion.

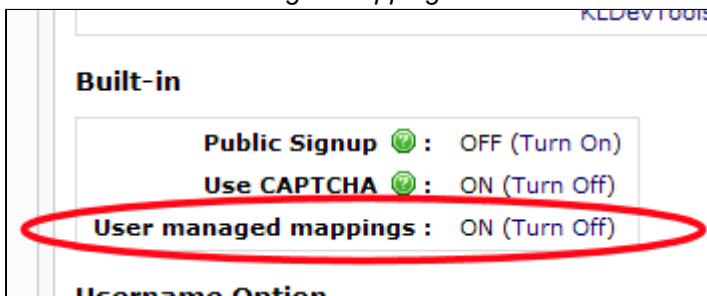
Configuring User Managed Mappings

In Crucible, Administrators can control whether users can use the [Author Mapping](#) setting to map their own Crucible usernames to repository committer accounts or not. By default, the setting allows users to set their own mappings.

If you wish to lock down the mappings for security or audit reasons, this setting lets you restrict all management of mappings to Crucible administrators only.

To do this, click **Administration** in the footer of the Crucible interface and then **Authentication** (under 'Security Settings') in the left navigation bar. You can set User Managed Mappings either **On** or **Off**. The setting is applied immediately.

Screenshot: User Managed Mappings



Enabling Access Logging in Crucible

To enable access logging in FishEye 3.0 and later:

1. Stop Fisheye/Crucible,
2. Create the file `FISHEYE_HOME/content/WEB-INF/jetty-web.xml` with the following content:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE Configure PUBLIC "-//Mort Bay Consulting//DTD
Configure//EN" "http://www.eclipse.org/jetty/configure.dtd" >
<Configure class="org.eclipse.jetty.webapp.WebAppContext">
  <Set name="handler">
    <New
class="com.cenqua.fisheye.web.jetty.FishEyeRequestLogHandler">
      <Set name="requestLog">
        <New id="RequestLogImpl"
class="org.eclipse.jetty.server.NCSARequestLog">
          <Arg><SystemProperty name="jetty.logs"
default="./var/log/" />fisheye-access-yyyy_mm_dd.log</Arg>
          <Set name="retainDays">90</Set>
          <Set name="append">true</Set>
          <Set name="extended">false</Set>
          <Set name="LogTimeZone">GMT</Set>
        </New>
      </Set>
    </New>
  </Set>
</Configure>
```

3. Restart Fisheye/Crucible.

This will create an access log in `FISHEYE_HOME/var/log/fisheye-access-yyyy_mm_dd.log` format (e.g. `fisheye-access-2010_03_17.log`). If you want to change the path to your `FISHEYE_INST` directory, change the `default="./var/log/"` to the path to the log folder in `FISHEYE_INST`.



The log directory must exist

If the path to the log directory given by the `default` attribute of the `SystemProperty` tag (defined in the line 10 in the `jetty-web.xml` above) does not exist, then FishEye will fail to start and will not log any error message.

The path given in the example below is correct when `FISHEYE_INST` and `FISHEYE_HOME` are the same directory, otherwise please use the absolute path of your `FISHEYE_INST/var/log` directory.

Log format

The logs are written in [NCSA format](#):

```
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=TestRepo&ou
tputtype=image HTTP/1.1" 200 256
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=npanday&out
puttype=image HTTP/1.1" 200 177
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=jutils&outp
uttype=image HTTP/1.1" 200 775
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=P4&outputty
pe=image HTTP/1.1" 200 177
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=Rails&outpu
ttype=image HTTP/1.1" 200 1311
172.20.5.186 - - [17/Mar/2010:22:50:22 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=FE-2363&out
puttype=image HTTP/1.1" 200 128
```

Please refer to the [Jetty documentation](#) for more configuration options.

Compatibility

If you are using an earlier version of FishEye than FishEye 2.7.8, replace `com.cenqua.fisheye.web.jetty.FishEyeRequestLogHandler` by `org.mortbay.jetty.handler.RequestLogHandler`.

`FishEyeRequestLogHandler` was added in 2.7.8 to fix an issue where the user credentials would not be added to the NCSA log: [FE-3040](#).

Integrating Crucible with Other Applications

- [JIRA integration in Crucible](#)
- [Configuring Application Links](#)
- [Trusted Applications](#)

JIRA integration in Crucible

[JIRA](#) is Atlassian's issue tracking and project management application. This page describes how to integrate JIRA with Crucible.

When Crucible was first installed, JIRA integration may have been configured using the setup wizard, which configures the JIRA connection automatically using the most common options. See [Configuring JIRA integration in the Setup Wizard](#).

However, JIRA integration with Crucible can be configured at any time after installation, as described on this page.

Initial configuration in JIRA

Configure the following setting in JIRA:

- [Allow remote API access](#)

Consider also the following settings, to make full use of the integration between Crucible and JIRA:

- [Enable subtasks](#)
- [Allow unassigned issues](#)

On this page:

- [Initial configuration in JIRA](#)
- [JIRA integration in Crucible](#)
 - [1. Configuring an application link with JIRA](#)
 - [2. Connecting to JIRA for user management](#)
- [Inline issue creation](#)

Related pages:

- [Using JIRA integration in Crucible reviews](#)
- [User management limitations and recommendations](#)
- [Configuring application links](#)

JIRA integration in Crucible

You can further configure the JIRA connections using the Crucible administration screens. There are two parts to the integration process:

- A peer-to-peer link between JIRA and Crucible for sharing information and facilitating integration features. This link is set up using Application Links.
- A client-server link between Crucible and JIRA for delegating user and group management to your JIRA server.

1. Configuring an application link with JIRA

This section describes how to create a two-way trusted applications link between Crucible and JIRA. We assume that your Crucible and JIRA servers are using the same set of users. If not, please refer to [Adding an application link](#) for information about the various options available.

To add a two-way trusted applications link between Crucible and JIRA:

1. Go to your Crucible administration screen and click **Application Links** (under 'Global Settings').
2. Now:
 - a. Click '**Add Application Link**'. Step 1 of the link wizard will appear.
 - b. Enter the **server URL** of the application that you want to link to (the 'remote application').
 - c. Click the '**Next**' button.
 - d. Enter the following information:
 - '**Create a link back to this server**' – Tick this check box to add a two-way link between the two applications.
 - '**Username**' and '**Password**' – Enter the credentials for a username that has administrator access to the remote application.
Note: These credentials are only used to authenticate you to the remote application, so that Application Links can make the changes required for the new link. The credentials are not saved.
 - '**Reciprocal Link URL**' – The URL you give here will override the base URL specified in your remote application's administration console, for the purposes of the application links connection. Application Links will use this URL to access the remote application.
 - e. Click the '**Next**' button.
 - f. Enter the information required to configure authentication for your application link:
 - '**The servers have the same set of users**' – Tick this check box, because the users are the same in both applications.
 - '**These servers fully trust each other**' – Tick this check box, because you trust the code in both applications and are sure both applications will maintain the security of their private

keys.

For more information about configuring authentication, see [Configuring Authentication for an Application Link](#).

- g. Click the **'Create'** button to create the application link.

2. Connecting to JIRA for user management

This option is available only with **JIRA 4.3 and later**.

To manage your Crucible users using JIRA, configure a connection in JIRA and then set up the user directory in Crucible. Both steps are described below.

2.1. To configure a new connection for user management in JIRA:

1. Log in to JIRA as a user with the 'JIRA System Administrators' global permission.
2. Click **Administration** on the JIRA top navigation bar.
 - a. Go to the JIRA administration screen for configuring the applications that have been set up to use JIRA for user management:
 - In JIRA 4.3: Click **'Other Applications'** in the **'Users, Groups & Roles'** section of the JIRA administration screen.
 - In JIRA 4.4: Select **'Administration' > 'Users' > 'JIRA User Server'**.
 - b. **Add** an application.
 - c. Enter the **application name** and **password** that your application will use when accessing JIRA.
 - d. Enter the **IP address** or addresses of your application. Valid values are:
 - A full IP address, e.g. 192.168.10.12.
 - A wildcard IP range, using CIDR notation, e.g. 192.168.10.1/16. For more information, see the introduction to [CIDR notation on Wikipedia](#) and [RFC 4632](#).
 - **Save** the new application.

2.2. To set up the JIRA user directory in Crucible:

Go to your Crucible administration screen.

1. Click **Authentication** (under 'Security Settings').
2. Click **Setup JIRA/Crowd authentication**. Note, if LDAP authentication has already been set up, you will need to remove that before connecting to JIRA for user management.
3. Make the following settings:

Authenticate against	Select a JIRA instance
Application name and password	Enter the values that you defined for your application in the settings on JIRA.
JIRA URL	The web address of your JIRA server. Examples: <div style="border: 1px solid #add8e6; padding: 10px; margin: 10px 0;"> <pre>http://www.example.com:8080/jira/ http://jira.example.com</pre> </div>
Auto-add	Select Create a FishEye user on successful login so that your JIRA users will be automatically added as a FishEye user when they first log in.

Periodically synchronise users with JIRA	Select Yes to ensure that JIRA will synchronize all changes in the user information on a regular basis. Change the value for Synchronise Period if required.
When Synchronisation Happens	Select an option depending on whether you want to allow changes to user attributes from within FishEye.
Single Sign On	Select Disabled . SSO is not available when using JIRA for user management and if enabled will make the integration fail.

- Click **Next** and select at least one user group to be synchronised from JIRA. If necessary, you could create a new group in JIRA, such as 'fisheye-users', and select this group here.
- Click **Save**.

Inline issue creation

Inline issue creation allows a user to create a JIRA issue from a review comment. The user must have the 'Comment' [permission](#) in Crucible to see the **Create Issue** link in the comment. See [Creating JIRA issues from the review](#).

This requires that Crucible is integrated with JIRA 5.0, or later, and is disabled if Crucible is integrated with an earlier version of JIRA.

When creating the issue, the Create Issue dialog only displays required fields for the selected issue type.

- A JIRA administrator can configure other fields to be required (and so displayed) from within JIRA. See [Specifying Field Behaviour](#).
- Not all field types are supported. In particular, unbundled custom field types are not supported. See [Supported fields for inline issue creation](#).
- If *any* required field for the selected issue type is not supported, Crucible displays an error, with a link to create the issue directly in JIRA. This link will pre-populate the project, issue type, summary and description fields, but will not create a link from the comment to the issue.

In the new issue in JIRA, you see a link back to the comment in Crucible. However:

- Issue links may be disabled in JIRA.
- The JIRA login that Crucible uses needs permission to create links.
- The FishEye plugin (available from the [Atlassian Marketplace](#)) must be installed in JIRA for permission checking on the display of issue links in JIRA.

You can disable the Inline Issue Creation plugin in Crucible to restore the earlier behaviour.

User Management Limitations and Recommendations

This page describes the optimal configurations and limitations that apply when you are connecting Crucible to JIRA for user management.

On this page:

- [Recommendations for Connecting to JIRA for User Management](#)
 - [Single Sign-On Across Multiple Applications is Not Supported](#)
 - [Custom Application Connectors are Not Supported](#)
 - [Custom Directories are Not Supported](#)
 - [Optimal Number of Users and Applications](#)
 - [Recommendations](#)

Recommendations for Connecting to JIRA for User Management

Please consider the following limitations and recommendations when connecting to a JIRA server for user management.

Single Sign-On Across Multiple Applications is Not Supported

When you connect to JIRA for user management, you will not have single sign-on across the applications connected in this way. JIRA, when acting as a directory manager, does not support SSO.

Custom Application Connectors are Not Supported

JIRA, Confluence, FishEye, Crucible and Bamboo can connect to a JIRA server for user management. Custom application connectors will need to use the new REST API.

Custom Directories are Not Supported

Earlier versions of JIRA supported OSUser Providers. It was therefore possible write a special provider to obtain user information from any external user directory. This is no longer the case.

Optimal Number of Users and Applications

Please consider the following limitations when connecting to a JIRA server for user management:

- Maximum 500 users.
- Maximum 5 connected applications.

Recommendations

Your environment	Recommendation
<p>If all the following are true:</p> <ul style="list-style-type: none"> • You have fewer than 500 users. • You want to share user and group management across just a few applications, such as one JIRA server and one Confluence server, or two JIRA servers. • You do not need single sign-on (SSO) between JIRA and Confluence, or between two JIRA servers. • You do not have custom application connectors. Or, if you do have them, you are happy to convert them to use the new REST API. • You are happy to shut down all your servers when you need to upgrade JIRA. 	<p>Your environment meets the optimal requirements for using JIRA for user management.</p>
<p>If one or more of the following are true:</p> <ul style="list-style-type: none"> • You have more than 500 users. • You want to share user and group management across more than 5 applications. • You need single sign-on (SSO) across multiple applications. • You have custom applications integrated via the Crowd SOAP API, and you cannot convert them to use the new REST API. • You are not happy to shut down all your servers when you need to upgrade JIRA. 	<p>We recommend that you install Atlassian Crowd for user management and SSO.</p>

If you are considering creating a custom directory connector to define your own storage for users and groups...

Please see if one of the following solutions will work for you:

- If you have written a custom provider to support a specific LDAP schema, please check the supported LDAP schemas to see if you can use one of them instead.
- If you have written a custom provider to support nested groups, please consider enabling nested groups in the supported directory connectors instead.
- If you have written a custom provider to connect to your own database, please consider loading the data into the application's database instead.
- If you need to keep the custom directory connection, please consider whether [Atlassian Crowd](#) meets your requirements. See the documentation on [Creating a Custom Directory Connector](#).

Related Topics

[JIRA integration in Crucible](#)

Supported fields for inline issue creation

Inline issue creation allows a user to create a JIRA issue from a review comment. See [Creating JIRA issues from the review](#).

This requires JIRA 5.0, or later, and is disabled if Crucible is integrated with an earlier version of JIRA. See [JIRA integration in Crucible](#).

When creating the issue, the Create Issue dialog only displays required fields for the selected issue type. However, a JIRA administrator can configure other fields to be required (and so displayed) from within JIRA. See [Specifying Field Behaviour](#).

Note that:

- Unbundled custom field types in JIRA are not supported for inline issue creation.
- If *any* required field for the selected issue type is not supported, Crucible displays an error, with a link to create the issue directly in JIRA. This link will pre-populate the project, issue type, summary and description fields, but will not create a link from the comment to the issue.

The tables below list the supported JIRA field types.

Built-in fields

Field Name	Supported
Affects Version/s	YES
Assignee	N/A
Attachment	N/A
Comments	N/A
Component/s	YES

Description	YES
Due Date	NO
Environment	YES
Fix Version/s	YES
Issue Type	N/A
Labels	YES
Linked Issues	NO
Log Work	NO
Priority	YES
Reporter	N/A
Resolution	N/A
Security Level	YES
Summary	YES
Time Tracking	YES

Bundled custom field types

Field Name	Supported
Bug Import Id	N/A
Date Picker	NO
Free Text Field	YES
Hidden Job Switch	NO
Job Checkbox	NO
Multi Checkboxes	NO
Multi Select	NO
Number Field	YES
Radio Buttons	NO
Select List	NO
Text Field	YES
User Picker	NO
Cascading Select	NO
Date Time	NO
Group Picker	NO

Import Id	N/A
Labels	YES
Multi Group Picker	NO
Multi User Picker	NO
Project Picker	YES
Read-only Text Field	N/A
Single Version Picker	YES
URL Field	YES
Version Picker	YES

Using Crucible gadgets

This page explains how to add a Crucible gadget to a JIRA dashboard. The process is similar for [adding a gadget](#) to a Confluence page.

On this page:

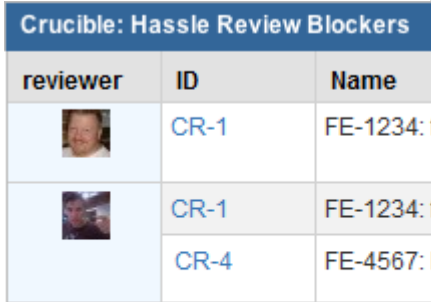
[Overview of Crucible gadgets](#)

1. Add an application link from FishEye to JIRA
2. Add the Crucible gadget to JIRA's Gadget Directory
3. Add the Crucible gadget to a JIRA dashboard

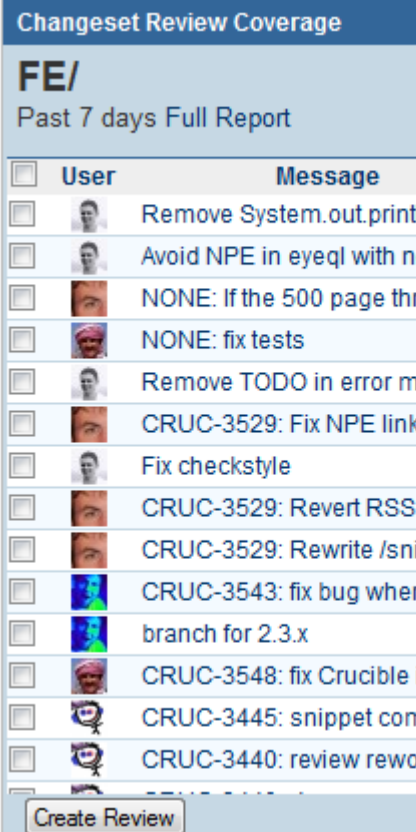
Overview of Crucible gadgets

As of the release of Crucible 2.3, you can display Crucible data in other Atlassian applications, such as JIRA and Confluence, by using Crucible gadgets.

Crucible bundles the following gadgets by default:

Gadget Name	Description and Gadget URL	Screenshot
Hassle Review Blockers	<p>This gadget shows you who you are still waiting on; in other words, which reviewers haven't completed your reviews.</p> <p>The URL for this gadget is:</p> <pre>http://HOSTNAME:8060/rest/gadgets/1.0/g/com.atlassian.fecru.fecru-gadgets-plugin:overdueReviews/gadgets/hassle.xml</pre> <p>Where HOSTNAME:8060 is the hostname of your Crucible instance.</p>	

<h3>Overdue Reviews</h3>	<p>This gadget shows you reviews that are yet to be completed in the project, across all authors. This is useful for managers or team leads.</p> <p>The URL for this gadget is:</p> <div><pre>http://HOSTNAME:8060/rest/gadgets/1.0/g/com.atlassian.fecru.fecru-gadgets-plugin:overdueReviews/gadgets/overdueReviews.xml</pre></div> <p>Where <code>HOSTNAME:8060</code> is the hostname of your Crucible instance.</p>	<table><tr><th colspan="2">Crucible: Overdue reviews in All Pro</th></tr><tr><th>ID</th><th>Name</th></tr><tr><td>CR-3</td><td>FE-3456: Make stuff nicer</td></tr><tr><td>CR-4</td><td>FE-4567: Disentangle states</td></tr></table>	Crucible: Overdue reviews in All Pro		ID	Name	CR-3	FE-3456: Make stuff nicer	CR-4	FE-4567: Disentangle states							
Crucible: Overdue reviews in All Pro																	
ID	Name																
CR-3	FE-3456: Make stuff nicer																
CR-4	FE-4567: Disentangle states																
<h3>Review Inbox</h3>	<p>This gadget is a list of Crucible to-do items including reviews to do, comments to read or reviews to summarise.</p> <p>The URL for this gadget is:</p> <div><pre>http://HOSTNAME:8060/rest/gadgets/1.0/g/com.atlassian.fecru.fecru-gadgets-plugin:overdueReviews/gadgets/todo.xml</pre></div> <p>Where <code>HOSTNAME:8060</code> is the hostname of your Crucible instance.</p>	<table><tr><th colspan="3">Crucible: Review Inbox</th></tr><tr><th>state</th><th>ID</th><th>Name</th></tr><tr><td>Summarize</td><td>CR-3</td><td>FE-3456: Make stuff nicer</td></tr><tr><td>Respond</td><td>CR-1</td><td>FE-1234: Disentangle states</td></tr><tr><td>Review</td><td>CR-2</td><td>FE-2345: Make stuff nicer</td></tr></table>	Crucible: Review Inbox			state	ID	Name	Summarize	CR-3	FE-3456: Make stuff nicer	Respond	CR-1	FE-1234: Disentangle states	Review	CR-2	FE-2345: Make stuff nicer
Crucible: Review Inbox																	
state	ID	Name															
Summarize	CR-3	FE-3456: Make stuff nicer															
Respond	CR-1	FE-1234: Disentangle states															
Review	CR-2	FE-2345: Make stuff nicer															

<h3>Review Coverage</h3> <p>This gadget shows content from the innovative Review Coverage report, letting you investigate how much of your codebase has been under code review.</p> <p>The URL for this gadget is as follows:</p> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <pre>http://HOSTNAME:8060/rest/gadgets/1.0/g/com.atlassian.fisheye.review-coverage-report/gadgets/recent-changesets.xml</pre> </div> <p>Where <code>HOSTNAME:8060</code> is the hostname of your Crucible instance.</p>		
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1. Add an application link from FishEye to JIRA

Go to the [admin area](#) in FishEye and [set up an application link](#) from FishEye to JIRA.

When completing the wizard, leave the **Also create a link** checkbox selected, and choose the **These servers fully trust each other** option.

2. Add the Crucible gadget to JIRA's Gadget Directory

As a JIRA administrator you allow the use of these gadgets by adding them to the Gadget Directory. You'll need the URL listed in the table above for each gadget that you want to add.

See the [JIRA documentation](#) for details on this process.

3. Add the Crucible gadget to a JIRA dashboard

As a JIRA user, you can [add gadgets to a JIRA dashboard](#) that you have created.








Once added, the gadget will appear on your JIRA dashboard and display information drawn from Crucible and FishEye.

You can also add Crucible gadgets to the Confluence dashboard. See the [General Gadgets Documentation](#) for more information.

Configuring Application Links

An application link is a trust relationship between two applications. Linking two applications allows you to share information and to access one application's functions from within the other.

For example, you may want to set up a trust relationship between Crucible and two JIRA servers.

Configure Application Links 							 Add Application Link
Name	Application	Application URL	Incoming Authentication 	Outgoing Authentication 	Primary	Actions	
 JDOG	JIRA	https://jdog.atlassian.com/secure/Dashboard.jspa	Trusted Applications	none		Configure Delete Make Primary	
 Your Company JIRA	JIRA	http://localhost:8080	Trusted Applications	Trusted Applications		Configure Delete	

Screenshot above: Application links to two JIRA servers

Related Topics

- [Adding an application link](#)
- [Configuring Authentication for an Application Link](#)
- [Deleting an Application Link](#)
- [Editing an Application Link](#)
- [Making an application link the primary link](#)
- [Relocating an Application Link](#)
- [Upgrading an Application Link](#)
- [Configuring Project Links across Applications](#)

Adding an application link

This page describes how to add a new application link in Crucible. The process for adding an application link depends on whether or not the application you are linking Crucible to supports Atlassian's Application Links.

If you are linking Crucible to an application that does not have Application Links, you will need to do additional configuration in that application. This is because Application Links in Crucible will not be able to automatically configure authentication in your remote application.

On this page:

- [Before you begin](#)
- [For applications that support Application Links](#)
- [For applications that do not support Application Links](#)

Before you begin

Check the following settings. This is required for synchronisation to work correctly:

- Make sure that the base URL is set correctly in Crucible. See the [FishEye documentation on configuring the web server](#).
- Make sure that the base URL is set correctly in the application you wish to link to. See the appropriate instructions for [JIRA](#), [FishEye](#), [Bamboo](#) and [Confluence](#).

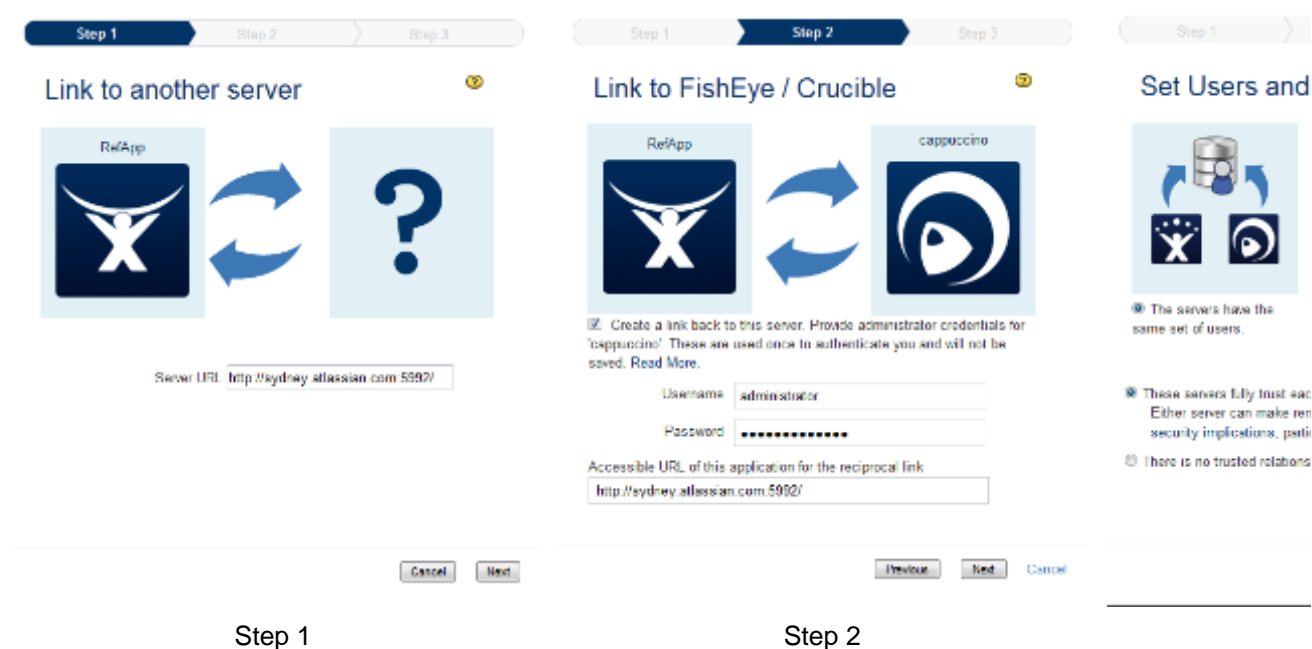
For applications that support Application Links

To link to an application that supports Application Links:

1. Log in as a system administrator and go to the administration page. Click 'Application Links' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click '**Add Application Link**'. Step 1 of the link wizard will appear.
3. Enter the **server URL** of the application that you want to link to (the 'remote application').
4. Click the '**Next**' button. Step 2 of the link wizard will appear.
5. Enter the following information:
 - '**Create a link back to this server**' – Tick this check box if you want to create a two-way link between the remote application and your application. If you want to do this, you will need to enter the username and password of an administrator for the remote application.
Note: These credentials are only used to authenticate you to the remote application, so that Application Links can make the changes required for the new link. The credentials are not saved.

- **'Reciprocal Link URL'** – The URL you give here will override the base URL specified in your remote application's administration console, for the purposes of the application links connection. Application Links will use this URL to access the remote application.
- Click the **'Next'** button. Step 3 of the link wizard will appear.
 - Enter the information required to configure authentication for your application link:
 - **'The servers have the same set of users'** or **'The servers have different sets of users'** – Select one of these options depending on how you manage users between the two applications.
 - **'These servers fully trust each other'** – Tick this check box if you know that the code in both applications will behave itself at all times and are sure each application will maintain the security of its private key.
For more information about configuring authentication, see [Configuring Authentication for an Application Link](#).
 - Click the **'Create'** button to create the application link.

Screenshots: Adding an application link to an application that supports Application Links (click to view full-sized images)



For applications that do not support Application Links

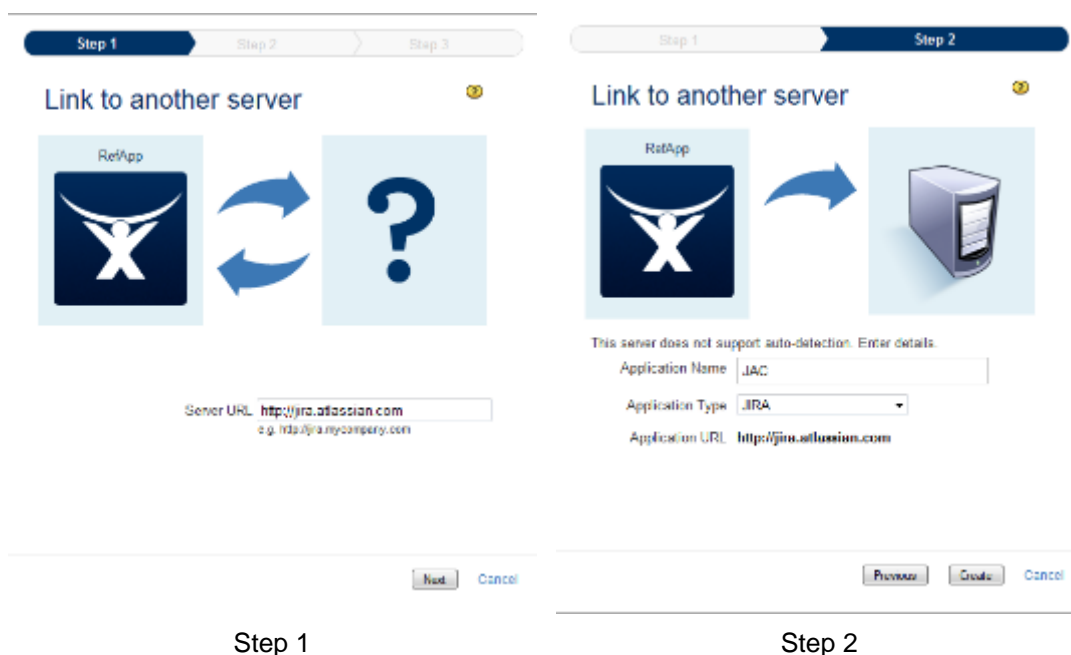
To link to an application that does not support Application Links:

- Log in as a system administrator and go to the administration page. Click 'Application Links' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
- Click **'Add Application Link'**. Step 1 of the 'Link to another server' dialogue will be displayed.
- Enter the server URL of the application that you want to link to, in the **'Server URL'** field. Click the **'Next'** button. Step 2 of the 'Link to another server' dialogue will be displayed.
- Fill out the fields, as follows:
 - **'Application Name'** — Enter the name by which this remote application will be referred to, in your application.
 - **'Application Type'** — Select the type of application that you are linking to: Generic, FishEye/Crucible, Confluence, Stash, Bamboo, JIRA.
 - **'Application URL'** — This will be set to the server URL you entered in the previous step and will

not be editable.

- Click the **'Create'** button to create the application link. The 'Configure Application Links' page will be displayed, listing all of the application links that have currently been set up for your application including the one you just added.
- Configure the desired authentication type (Trusted Applications, OAuth, basic HTTP, none) for your new application link. See [Configuring Authentication for an Application Link](#).
- In your application that does not support Application Links, configure the same type of authentication that you configured for your application link's *outgoing* authentication (in the previous step). For example, if you configured outgoing Trusted Applications authentication in your Application-Links-enabled application, you also need log into your non-Application-Links application and manually configure Trusted Applications (see the relevant administrator's documentation for the application).

Screenshots: Adding an application link to an application that does not support Application Links (click to view full-sized images)



Related Topics

[Making an application link the primary link](#)

[Configuring authentication for an Application Link](#)

[Configuring project links across applications](#)

Configuring Authentication for an Application Link

When you configure authentication for an application link, you are defining the level of trust between Crucible and the application that it is linked to.

On this page:

- [Choosing Authentication for an Application Link](#)
- [Security Implications for each Authentication Type](#)
- [About Primary Authentication Types](#)
- [About Impersonating and Non-Impersonating Authentication Types](#)

Choosing Authentication for an Application Link

The level of authentication that you should configure for your application link depends on a number of factors.

- Do the two applications trust each other? In other words, are you sure that the code in the application will behave itself at all times and that the application will maintain the security of its private key?

- Do the two applications share the same user base?
- Do you have administrative access to the application you are linking to?

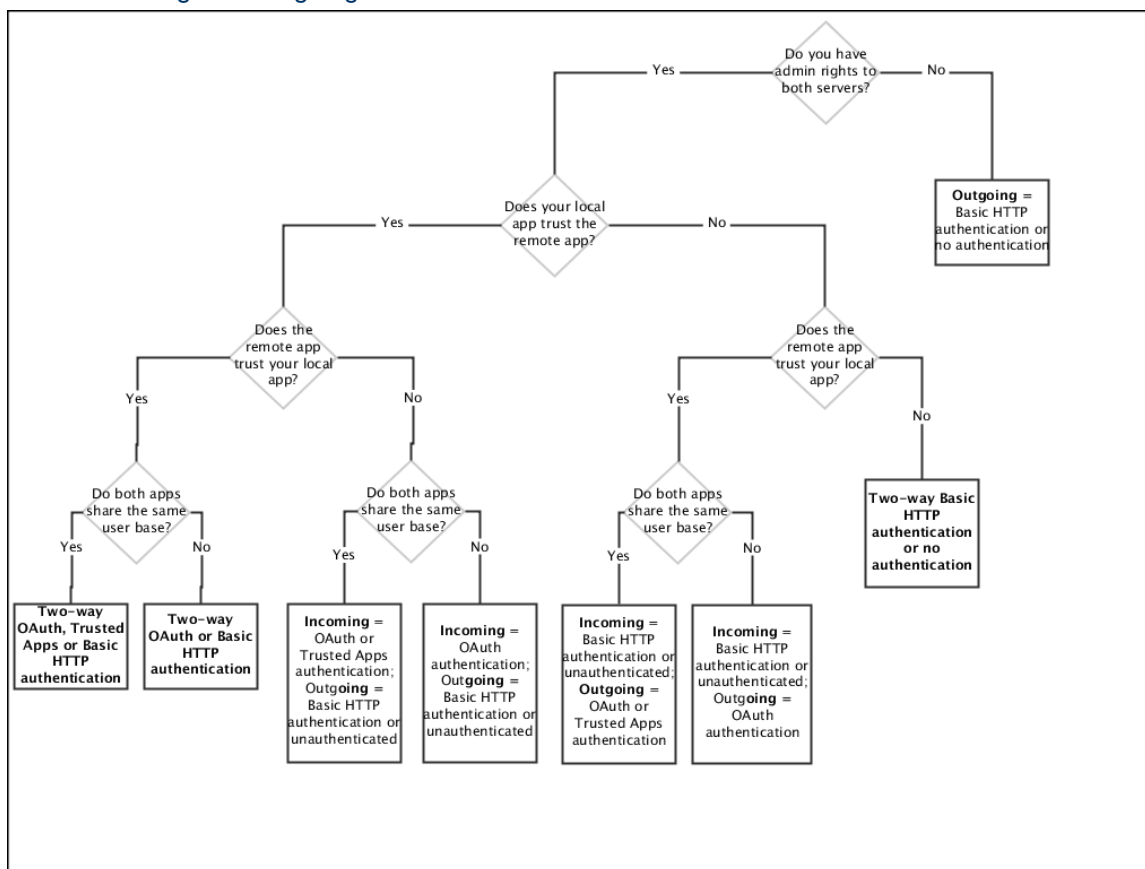
Common scenarios include:

- If the two applications you are linking **trust each other** and **share the same user base**, configure **two-way authentication using Trusted Applications** for both incoming and outgoing authentication. For example, you may link your internal Crucible server to an internal JIRA server.
- If the two applications you are linking **trust each other** but **do not share the same user base**, configure **two-way authentication using OAuth** for both incoming and outgoing authentication. For example, you may link your internal Crucible server to an external (customer-facing) JIRA server.
- If you **do not have administrative rights to the application that you are linking to** (for example, linking to a public Crucible server), configure a **one-way outgoing link** authenticated using **basic HTTP authentication** or **do not configure any authentication** for the link. For example, you may link your external Crucible server to a partner organisation's Crucible server. An unauthenticated link will still allow the local application to render hyperlinks to the remote application or query anonymously-accessible APIs.

The flowchart below provides a guide to what authentication you should configure for your application link.

Read the following topics for information on how to configure authentication for an application link:

- [Configuring Basic HTTP Authentication for an Application Link](#)
- [Configuring OAuth Authentication for an Application Link](#)
- [Configuring Trusted Applications Authentication for an Application Link](#)
- [Incoming and Outgoing Authentication](#)



Flowchart above: Determining what authentication to configure for an Application Link

Security Implications for each Authentication Type

If you configure **Trusted Applications** authentication for your application (meaning that your servers have the

same set of users and they fully trust each other) please be aware of the following security implications:

- Trusted applications are a **potential security risk**. When you configure Trusted Applications authentication, you are allowing one application to access another as any user. This allows all of the built-in security measures to be bypassed. Do not configure a trusted application unless you know that all code in the application you are trusting will behave itself at all times, and you are sure that the application will maintain the security of its private key.

If you configure **OAuth authentication** for your application (meaning that your servers have different sets of users and they fully trust each other) please be aware of the following security implications:


- Adding an OAuth consumer requires the transmission of sensitive data. To prevent '[man-in-the-middle attacks](#)', it is recommended that you **use SSL** for your applications while configuring OAuth authentication.
- Do not link to an application using OAuth authentication, unless you **trust all code in the application** to behave itself at all times. OAuth consumers are a potential security risk to the applications that they are linked to.

Step 1

Step 2

Step 3

Set Users and Trust



☒ The servers have the same set of users.

☐ The servers have different sets of users.

☒ These servers fully trust each other.
Either server can make remote requests as any user. [Read more on the security implications](#), particularly if you have public signup enabled.

☐ There is no trusted relationship between these servers.

Previous


Create

Cancel

Screenshot above: Configuring authentication during application link setup

About Primary Authentication Types

You can configure multiple authentication types for each application link. When a feature makes a request using an Application Link, it will use one of the configured authentication types. If more than one authentication type is

configured, it will by default use the authentication type that is marked as the primary authentication type. The default authentication type is indicated by the green tick  next to the authentication type on the list application link screen.

You **cannot** configure which authentication type is the primary authentication type. The primary authentication type is determined automatically by Application Links and depends on a weight defined by each authentication type method. However, every feature that uses Application Links can also choose to use a specific authentication type and might not use the default primary authentication type.

About Impersonating and Non-Impersonating Authentication Types

Applications Links allows you to configure 'impersonating' and 'non-impersonating' authentication types:

- **Impersonating authentication types** make requests on behalf of the user who is currently logged in. People will see only the information that they have permission to see. This includes [OAuth](#) and [Trusted Applications](#) authentication.
- **Non-impersonating authentication types** always use a pre-configured user when making a request. Everyone logged into the system will see the same information. This includes [basic HTTP authentication](#).

Configuring Basic HTTP Authentication for an Application Link

This page describes how to configure **Basic HTTP authentication** for incoming and/or outgoing authentication for an application link.

Basic HTTP authentication allows Crucible to provide a specific set of user credentials to a remote application and vice versa. Once authenticated, one application can access specified functions on the other application on behalf of that user. For example, if you supply the credentials of a Crucible administrator on your Crucible server to a remote application, the remote application will be able to access all functions on your Crucible server that the Crucible administrator can access.

This method of authentication relies on the connection between Crucible and the remote application being secure. We recommend that you use [Trusted Applications authentication](#) or [OAuth authentication](#) for your application link instead, if possible.

On this page:

- [Before You Begin](#)
- [Configuring Basic HTTP Authentication for Outgoing Authentication](#)
- [Configuring Basic HTTP Authentication for Incoming Authentication](#)

Before You Begin

- The instructions assume that **both of the applications that you are linking have the Application Links plugin installed**. If the remote application that you are linking to supports Basic HTTP authentication, but does not have the Application Links plugin installed, you will need to configure Basic HTTP authentication from within the remote application. See the relevant administrator's documentation for the application. This is in addition to configuring the outgoing/incoming authentication for the application link described below.
- You must be a Crucible administrator to configure Basic HTTP authentication for an application link.

Configuring Basic HTTP Authentication for Outgoing Authentication

Configuring **outgoing basic http authentication** will allow Crucible to trust a remote application. This allows the remote application to access specified functions in Crucible.

To configure basic http authentication for an outgoing application link:

1. Log in as a system administrator and go to the administration page. Click 'Application Links' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.

2. Click the '**Configure**' link next to the application link that you want to configure authentication for.
3. Click the '**Outgoing Authentication**' tab. The outgoing authentication page will be displayed.
4. Click the '**Basic Access**' tab.
5. Click the '**Configure**' button and enter the credentials (username and password) that the remote application will use to log into your application .
6. Click the '**Apply**' button to save your changes.

Configuring Basic HTTP Authentication for Incoming Authentication

Configuring **incoming basic http authentication** will allow the remote application that you are linking to, to trust Crucible. Crucible will be able to access specified functions on the remote application.

To configure basic http authentication for an incoming application link:

1. Log in as a system administrator and go to the administration page. Click 'Application Links' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the '**Configure**' link next to the application link that you want to configure authentication for.
3. Click the '**Incoming Authentication**' tab. The incoming authentication page will be displayed.
4. Click the '**Basic Access**' tab.
5. Click the '**Configure**' button and enter the credentials (username and password) that the your application will use to log in to the remote application.
6. Click the '**Apply**' button to save your changes.

Related Topics

[Configuring OAuth Authentication for an Application Link](#)

[Configuring Trusted Applications Authentication for an Application Link](#)

[Configuring OAuth Authentication for an Application Link](#)

This page describes how to configure **OAuth** for outgoing authentication and/or incoming authentication for an application link.

OAuth is a protocol that allows a web application to share data/resources with any other OAuth-compliant application. These applications could be another web application (such as a JIRA site or an [iGoogle](#) home page), a desktop application or a mobile device application, provided that they are accessible from within your network or available on the Internet.

A typical scenario is to set up an application link between two applications which trust each other, have the Application Links plugin installed, but do not share the same set of users. In this case, you would configure OAuth for both outgoing and incoming authentication.

Key OAuth Terminology:

- **Service provider** – An application that shares ('provides') its resources.
- **Consumer** – An application that accesses ('consumes') a service provider's resources.
- **User** – An individual who has an account with the service provider.

On this page:

- [Before You Begin](#)
- [Configuring OAuth for Outgoing Authentication](#)
- [Configuring OAuth for Incoming Authentication](#)

Related pages:

- [Configuring Basic HTTP Authentication for an Application Link](#)
- [Configuring Trusted Applications Authentication for an Application Link](#)

Before You Begin

- Adding an OAuth consumer requires the transmission of sensitive data. To prevent '[man-in-the-middle attacks](#)', it is recommended that you **use SSL** for your applications while configuring OAuth authentication.
- Do not link to an application using OAuth authentication, unless you **trust all code in the application** to behave itself at all times. OAuth consumers are a potential security risk to the applications that they are linked to.
- The instructions assume that **both of the applications that you are linking have the Application Links plugin installed**. If the remote application supports OAuth but does not have the Application Links plugin installed, you will need to configure OAuth from within the remote application (see the administrator's documentation for the application) in addition to configuring the outgoing/incoming authentication for the application link as described below.
- You must be a Crucible administrator to configure OAuth authentication for an application link.

Configuring OAuth for Outgoing Authentication

Configuring **outgoing OAuth authentication** will allow Crucible to access data in a remote application on behalf of a user. In other words, Crucible can access specified functions in the remote application.

To configure OAuth authentication for an outgoing application link:

1. Log in as a system administrator and go to the administration page. Click 'Application Links' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the '**Configure**' link next to the application link that you want to configure OAuth for.
3. Click the '**Outgoing Authentication**' tab. The outgoing authentication page will be displayed.
4. Click the '**OAuth**' tab.
5. If you are not currently logged in to the remote application (or you logged in to the remote application under a variant of the application's hostname, such as the IP address), a login dialogue will display.
 - Enter the '**Username**' and '**Password**' for the remote server, not your local server, and click the '**Login**' button. The remote server needs to learn the identity of your local server for the OAuth protocol to work and your admin credentials are used to store your local server's public key on the remote server. If you are already logged into your remote server, then the appropriate changes can be made without having to log in again.
6. Click the '**Enable**' button to enable OAuth authentication for the outgoing link. Your application will be automatically set up to be the 'consumer' and the remote application as a 'service provider'.

Configuring OAuth for Incoming Authentication

Configuring **incoming OAuth authentication** will allow the remote application to access data in Crucible.

To configure OAuth authentication for an incoming application link:

1. Log in as a system administrator and go to the administration page. Click 'Application Links' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the '**Configure**' link next to the application link that you want to configure OAuth for.
3. Click the '**Incoming Authentication**' tab. The incoming authentication page will be displayed.
4. Click the '**OAuth**' tab.
5. Click the '**Enable**' button to enable OAuth authentication for the incoming link. The remote application will be automatically set up to be the 'consumer' and your local application as a 'service provider'.

Configuring Trusted Applications Authentication for an Application Link

This page describes how to configure **Trusted Applications** for outgoing and/or incoming authentication for an application link.

Trusted Applications authentication allows one application to gain access to specified functions within another

application on behalf of any user, without the user having to log in to the second application.

A typical scenario is to set up an application link between two applications which trust each other, have the same set of users and have the application links plugin installed. In this case, you would configure Trusted Applications for both outgoing and incoming authentication.

On this page:

- [Before You Begin](#)
- [Configuring Trusted Applications for Outgoing Authentication](#)
- [Configuring Trusted Applications for Incoming Authentication](#)

Before You Begin


- Trusted applications are a **potential security risk**. When you configure Trusted Applications authentication, you are allowing one application to access another as any user. This allows all of the built-in security measures to be bypassed. Do not configure a trusted application unless you know that all code in the application you are trusting will behave itself at all times, and you are sure that the application will maintain the security of its private key.
- The instructions below assume that **both of the applications that you are linking have the Application Links plugin installed**. If the remote application supports Trusted Applications but does not have the Application Links plugin installed, you will need to configure Trusted Applications from within the remote application (see the relevant administrator's documentation for the application) in addition to configuring the outgoing/incoming authentication for the application link as described below.
- You must be a Crucible administrator to configure Trusted Applications authentication for an application link.

Configuring Trusted Applications for Outgoing Authentication

Configuring **outgoing Trusted Applications authentication** will allow the remote application to trust Crucible. In other words, Crucible will be able to access specified functions and data on the remote application.

To configure Trusted Applications authentication for an outgoing application link:

1. Log in as a system administrator and go to the administration page. Click 'Application Links' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the '**Configure**' link next to the application link that you want to configure Trusted Applications authentication for.
3. Click the '**Outgoing Authentication**' tab. The outgoing authentication page will show, with the '**Trusted Applications**' tab displayed.
4. If you are not currently logged into the remote application (or you logged into the remote application under a variant of the application's hostname, e.g. the IP address), a login dialogue will display.
 - Enter the '**Username**' and '**Password**' for the remote server, (not your local server), and click the '**Login**' button. You need to enter the credentials for the remote server, as the remote server needs to be instructed to trust your local server for the Trusted Applications protocol to work. If you are already logged into your remote server, then the appropriate changes can be made without having to log in again.
5. Configure the settings for the Trusted Applications authentication:
 - '**IP Patterns**' — Enter the IP addresses (IPv4 only) from which the remote application will accept requests (this effectively is the IP address your local server). You can specify wildcard matches by using an asterisk (*), e.g. '192.111.*.*' (note, you cannot use netmasks to specify network ranges). If you are entering multiple IP addresses, separate them with commas or spaces.

 *Please note, if you are setting up Trusted Applications between two applications that both have the Application Links plugin installed, you can leave this field blank (or explicitly use *.*.*.*). However, if your remote application does not have the Application Links plugin installed and you*

are configuring the IP Patterns in the remote application (not the Application Links plugin), **you must not leave this field blank nor use *.*.*.***. Failure to configure IP address restrictions in this scenario is a security vulnerability, allowing an unknown site to log into your site under a user's login ID.

Consider the following scenarios, if you want to limit access by using this field:


- If your local application is using a proxy server, you need to add the proxy server's IP address to this field.
- If your local application is a clustered instance of Confluence, you need to configure the remote server to accept requests from each cluster node. If you do not set up each node appropriately, your Confluence users may not be able to view any information from the remote server. You can set this up by either specifying each individual IP address for each node of the cluster (e.g. 172.16.0.10, 172.16.0.11, 172.16.0.12), or specifying the IP address for the clustered Confluence instance using wildcards (e.g. 172.16.0.*).
- **'URL Patterns'** — Enter the URLs in the remote application that your local application will be allowed to access. Each URL corresponds to a particular application function. Enter one URL per line, as follows:
 - If your remote application is JIRA, enter the following URL Patterns: /plugins/servlet/streams, /sr/jira.issueviews:searchrequest, /secure/RunPortlet, /rest, /rpc/soap
 - If your remote application is Confluence, enter the following URL Patterns: /plugins/servlet/streams, /plugins/servlet/applinks/whoami
- **'Certificate Timeout (ms)'** — Enter the certificate timeout. The default is 10 seconds. The certificate timeout is used to prevent replay attacks. For example, if a Trusted Applications request is intercepted and (maliciously) re-sent, the application will be able to check when the request was first sent. If the second request is sent more than 10 seconds (or whatever the certificate timeout is set to) after the initial request, it will be rejected. Please note, you should not have to change the default value of this field for most application links. Note that the certificate timeout relies on the clocks on both servers being synchronised.

6. Click the **'Apply'** button to save your changes.

Configuring Trusted Applications for Incoming Authentication

Configuring **incoming Trusted Applications authentication** will allow Crucible to trust the remote application. The remote application will be able to access specified functions and data on Crucible.

To configure Trusted Applications authentication for an incoming application link:

1. Log in as a system administrator and go to the administration page. Click 'Application Links' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
 2. Click the **'Configure'** link next to the application link that you want to configure Trusted Applications authentication for.
 3. Click the **'Incoming Authentication'** tab. The incoming authentication page will show, with the **'Trusted Applications'** tab displayed.
 4. The tab will show whether Trusted Applications is currently enabled or not. Use the **'Modify'** or **'Configure'** button to configure Trusted Applications. The Trusted Applications configuration settings will be displayed:
 - **'IP Patterns'** — Enter the IP addresses (IPv4 only) from which our application will accept requests. You can specify wildcard matches by using an asterisk (*), e.g. '192.111.*.*' (note, you cannot use netmasks to specify network ranges). If you are entering multiple IP addresses, separate them with commas or spaces.
-  *Please note, if you are setting up Trusted Applications between two applications that both have*

the *Application Links* plugin installed, you can leave this field blank (or explicitly use `*.*.*.*`). However, if your remote application does not have the *Application Links* plugin installed and you are configuring the *IP Patterns* in the remote application (not the *Application Links* plugin), **you must not leave this field blank nor use `*.*.*.*`**. Failure to configure IP address restrictions in this scenario is a security vulnerability, allowing an unknown site to log into your site under a user's login ID.

Consider the following scenarios, if you want to limit access by using this field:

- If the remote application is using a proxy server, you need to add the proxy server's IP address to this field.
- If the remote application is a clustered instance of Confluence, you need to accept requests from each cluster node. If you do not specify each node's address, Confluence users may not be able to view any data from your application. You can set this up by either specifying each individual IP address for each node of the cluster (e.g. 172.16.0.10, 172.16.0.11, 172.16.0.12), or specifying the IP address for your clustered Confluence instance using wildcards (e.g. 172.16.0.*).
- **'URL Patterns'** — Enter the local URLs that the remote application will be allowed to access. Each URL corresponds to a particular application function. Enter one URL per line, as follows:
 - If your local application is JIRA, enter the following URL Patterns — `/plugins/servlet/streams, /sr/jira.issueviews:searchrequest, /secure/RunPortlet, /rest, /rpc/soap`
 - If your local application is Confluence, enter the following URL Patterns — `/plugins/servlet/streams, /plugins/servlet/applinks/whoami`
- **'Certificate Timeout (ms)'** — Enter the certificate timeout. The default is 10 seconds. The certificate timeout is used to prevent replay attacks. For example, if a Trusted Applications request is intercepted and (maliciously) re-sent, the application will be able to check when the request was first sent. If the second request is sent more than 10 seconds (or whatever the certificate timeout is set to) after the initial request, it will be rejected. Please note, you should not have to change the default value of this field for most application links. Note that the certificate timeout relies on the clocks on both servers being synchronised.

5. Click the **'Apply'** button to save your changes.

Related Topics

[Configuring Basic HTTP Authentication for an Application Link](#)

[Configuring OAuth Authentication for an Application Link](#)

Incoming and Outgoing Authentication

When you configure authentication for an application link, you are defining the level of trust between the two linked servers. When configuring a link from one application to another, you can set up:

- **Incoming authentication** (authentication of requests coming from a linked application into this application).
- **Outgoing authentication** (authentication of requests sent from this application to a linked application).

See [Configuring Authentication for an Application Link](#).

Deleting an Application Link

Deleting an application link stops the two applications from sharing information. You will no longer be able to make requests from one application to the other. This means that certain integration features may not work.

If you have set up application links to multiple servers of the same application type, for example you have linked Crucible to multiple JIRA servers, deleting the [primary link](#) will mean that another of the links will be made the primary link.

Deleting an application link will also [delete all project links](#) set up for that application link.

To delete an application link:

1. Log in as a system administrator and go to the administration page. Click 'Application Links' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the **Delete** link next to the application link that you want to delete. A confirmation screen will be displayed.
3. Click the **Confirm** button to delete the application link.

RELATED TOPICS

[Editing an Application Link](#)[Relocating an Application Link](#)**Editing an Application Link**

You can change the details, such as the application name and display URL, for an existing application link.

To edit an application link:

1. Log in as a system administrator and go to the administration page. Click 'Application Links' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the **Configure** link next to the application link that you want to edit the details for. The application details for the application link will be displayed.
3. Update the application details as desired. Please note, you cannot update the Application Type nor the Application URL.
 - **'Application Name'** — Update this field to change the display name for the application that you are linking to.
 - **'Display URL'** — This URL is used when displaying links to the application in the browser. When creating the application link, you may have used a URL that is not accessible to other users, such as an internal IP address. If so, you can change the display URL to an address in a domain that is accessible to other users.
4. Click the **Update** button to save your changes.

Configure JAC

Application Details

Outgoing Authentication

Incoming Authentication

Application Name

Application Type **JIRA**

Application URL **http://jira.atlassian.com**
This is the URL used to connect to the application.

Display URL
The display URL is used when rendering links to the application.

Screenshot above: Editing an application link

Related Topics

[Configuring Authentication for an Application Link](#)

[Making an application link the primary link](#)



Making an application link the primary link

If you have set up application links to more than one of the same application type, for example you have linked Crucible to two JIRA servers, then one of the servers will be marked as the 'primary' link. This means that any outgoing requests will be directed to the primary link's application.

For example, if you have linked a Crucible server to two JIRA servers with two-way authentication for both links, you can nominate an application link to one of the JIRA servers as the primary link. Every time Crucible requests JIRA information, it will request it from the primary link's JIRA server. Both JIRA servers can still make requests of the Crucible server.

Please see [Configuring Project Links across Applications](#) for information on how primary project links also influence the information shared between servers.

To make an application link the primary link:

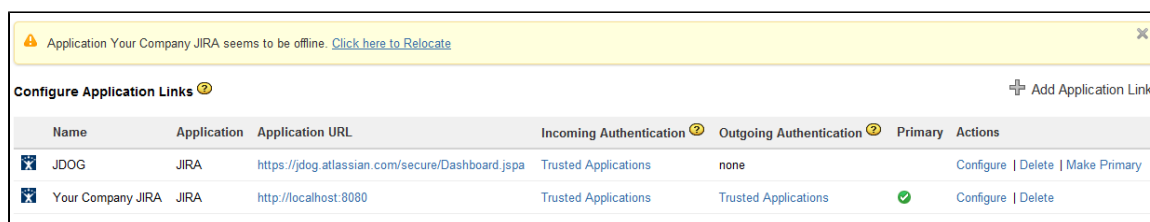
1. Log in as a system administrator and go to the administration page. Click 'Application Links' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the **'Make Primary'** link next to the application link that you want to make the primary link. A  symbol will display in the 'Primary' column next to the application link.
 The 'Primary' column and 'Make Primary' link will only display if you have set up application links to more than one of the same application type, e.g. you have linked your application to two JIRA servers.

Relocating an Application Link

This page describes how to change the location of an application link. You will need to relocate an application link if the target application has moved to a new address.

To relocate an application link:

1. Log in as a system administrator and go to the administration page. Click 'Application Links' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. If the remote application for an application link cannot be reached by your application, the '**List Application Links**' page will display a warning message (see 'Relocate Link - Warning Message' screenshot below).
3. If your remote application has been moved to a different address (rather than just being offline temporarily), click the '**Relocate**' link in the warning message (see 'Relocate Link - Updating URL' screenshot below).
4. Enter the new URL for the remote application of your application link and click '**Relocate**'.
5. You will need to confirm the relocation, if the new URL cannot be contacted. Otherwise, the application link will be updated.



Screenshot above: Relocate link – The warning message



Screenshot above: Relocate link – Updating the URL

Related Topics

Making an application link the primary link

Upgrading an Application Link

This page describes how to upgrade an existing application link. You may want to upgrade an application link in either of the two situations below:

- Your local Crucible application has been upgraded from a version that does not include Application Links to a version that does.
- Your remote application has been upgraded to a version that includes Application Links. For example, you had set up an application link to a JIRA 4.2 site (does not include Application Links) and have since

upgraded to JIRA 4.3 (includes Application Links).

On this page:

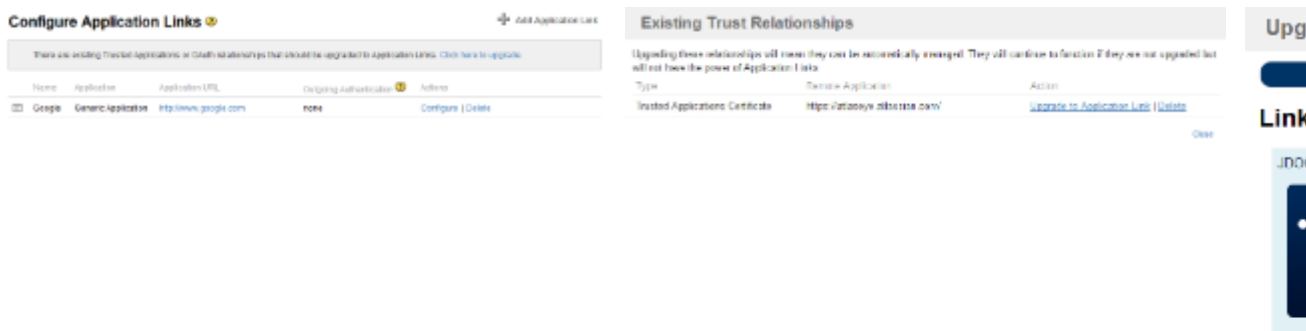
- [Upgrading an Application Link \(Local App Upgraded to Include Application Links\)](#)
- [Upgrading an Application Link \(Remote App Upgraded to Include Application Links\)](#)

Upgrading an Application Link (Local App Upgraded to Include Application Links)

When you upgrade from a Crucible version that does not include Application Links to a version that does, you will have the option of converting any Trusted Applications or OAuth links to Application Links. The advantage of converting your links to Application Links is that link configuration will be simplified in future.

To upgrade an application link when Crucible has been upgraded to include Application Links:

1. After your Crucible upgrade, go to the administration console.
2. Click '**Application Links**'. The 'Configure Application Links' screen will show the following message:
*"There are existing Trusted Applications or OAuth relationships that should be upgraded to Application Links. **Click here to upgrade.**"*
3. Click the '**Click here to upgrade**' link. The 'Existing Trust Relationships' screen will appear, showing all Trusted Applications and OAuth relationships that can be upgraded to Application Links.
4. Click the '**Upgrade to Application Link**' link next to the desired trust relationship. The 'Upgrade to Application Link' wizard will appear.
5. Complete the wizard. The process will be similar to adding a new link (described on [Adding an application link](#)), except that most fields should be pre-filled.



Step 1

Step 2

Screenshots above: Upgrading an application link for your local application

Upgrading an Application Link (Remote App Upgraded to Include Application Links)

When an application link is created between a version of Crucible that supports Application Links, and a remote application that does not (either a non-Atlassian product, or an older version of an Atlassian product that did not ship with Application Links), this link is configured to run in 'legacy mode'. While there is no distinguishable difference to a user, connection and configuration without Application Links is a little different. For example:

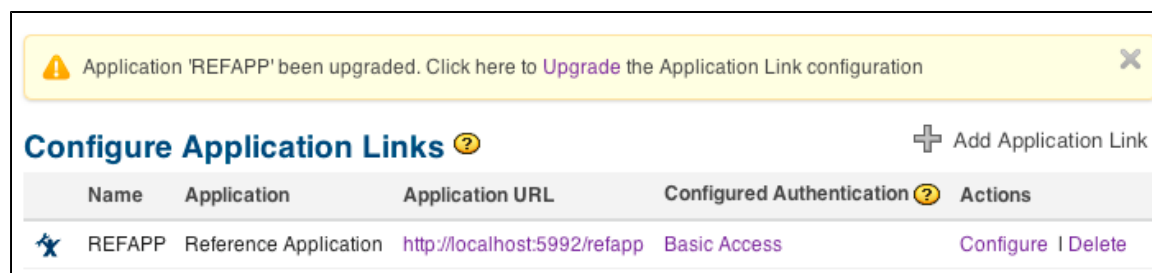
- Setting up OAuth requires manual configuration by the administrator. If your applications support Application Links, exchange of the consumer keys and public keys is done automatically.
- The Trusted Applications protocol (Atlassian-specific) will not be available for authentication.

If you upgrade your remote application to a version that does support Application Links, the application link will

continue to work. Upgrading your link may simplify link configuration and make additional authentication protocols available (as mentioned above).

To upgrade an application link when your remote application has been upgraded to include Application Links:

1. After you have upgraded your remote application to a version that includes Application Links, go to the administration console of your local application. A warning will be displayed, requesting that you upgrade the link to full Application Links mode.
2. Click '**Upgrade**' in the warning message to start the upgrade wizard. Note the following:
 - You will be prompted to make your application link a reciprocal link. You will need to provide administrator credentials for your remote application, if you choose to do so.
 - If you make your application link a reciprocal link, you will also be able to make reciprocal links for your project links. For example, you may be able to link your JIRA project to a FishEye repository and also make a link from your FishEye repository back to the JIRA project.



Screenshot above: Upgrading an application link for remote application

Step 1 **Step 2** Step 3

Link to Reference Application ?

RefApp - erik

REFAPP

☒ Create a link back to this server. Provide administrator credentials for 'REFAPP'. These are used once to authenticate you and will not be saved. [Read More.](#)

Username

Password

☒ For each existing Charlie link, create an incoming link from the remote application.

Accessible URL of this application for the reciprocal link

Screenshot above: Upgrading an application link wizard

Related Topics

[Adding an application link](#)

[Configuring Authentication for an Application Link](#)

Configuring Project Links across Applications

We no longer recommend the use of project links with Crucible 2.9 and later. This is because application links now provide all of the functionality previously available with project links.

However, project links are retained for the following reasons:

- Setting up project links provides a way to restrict the scope of JIRA searches, which can provide performance benefits.
- Legacy configurations can continue to use project links without any need for changes.
- Third-party plugins may continue to rely on project links for their functionality.

On this page:

- [Adding a Project Link](#)
- [Deleting a project link](#)
- [Making a project link the primary link](#)

Related pages:

- [Adding an application link](#)

Adding a Project Link**To link a Crucible project to a project in another application:**

1. Go to the Crucible administration console and click **Projects**.
2. Click **Application Links** in the 'Operations' column next to the project that you want to link from.
3. The instructions for adding a project link will vary depending on whether the target application has the Application Links functionality installed:
 - If the target application has Application Links:
 - a. Click **'Add Link'**. A dropdown menu will appear listing the applications you have already linked to.
 - b. In the dropdown menu, click the application that contains the project you want to link to. For example, if you want to link to a specific JIRA project, click the JIRA site that contains that project. If you want to link to a Confluence space, click the Confluence site that contains that space.
 - c. Click one of the options on the 'Authorization required' screen:
 - **'Authorize'** — Click this option if you want to grant your project authorised access to the target project. The target application will open in a new window, so that you can log in and authorise access.
 - **'Skip – your access is anonymous'** — Click this option if you only want to allow anonymous access to the target project.
 - d. In the **'Name or Key'** field, enter the name/key of the project in the remote application that you want to link to. For example, if you want to link to a JIRA project, enter the project key. If you want to link to a Confluence space, enter the space key.
 - e. Click the **'Create'** button to create the project link.
 - If the target application does not have Application Links:
 - a. Click **'Add Link'**. A dropdown menu will display listing the applications you have already linked to.
 - b. In the dropdown menu, click the application that contains the project you want to link to. For example, if you want to link to a specific JIRA project, click the JIRA site that contains that project. If you want to link to a Confluence space, click the Confluence site that contains that space.
 - c. In the **'Key'** field, enter the name/key of the project in the remote application that you want to link to. For example, if you want to link to a JIRA project, enter the project key. If you want to link to a Confluence space, enter the space key.
 - d. *(optional)* Enter the alias for the project in the **'Alias'** field. This is the display name for the project in your administration console.
 - e. Click the **'Create'** button to create the project link.

Deleting a project link

If you have set up multiple project links to the same application, for example you have linked a Crucible project to multiple JIRA projects, deleting the [primary link](#) will mean that another of the links will be made the primary link.

To delete a project link:


1. Go to the Crucible administration console and click **Projects**.
2. Click **Application Links** in the 'Operations' column next to the project that you want to link from.
3. Click **Delete** next to the link that you want to delete.
4. Click **Confirm**.

Making a project link the primary link

If you have set up project links to more than one project in the same application, then one of the project links will be marked as the primary link. All outgoing requests will be directed to the primary link.

For example, if you have a Crucible project that is linked to two JIRA projects, you can nominate the link to one of the JIRA projects as the primary link. Every time Crucible requests JIRA information, it will request it from the primary link's JIRA project. Both JIRA projects can still request information from the Crucible project.

To make a project link the primary link:

1. Go to the Crucible administration console and click **Projects**.
2. Click **Application Links** in the 'Operations' column next to the project that you want to link from.
3. Click **Make Primary** in the 'Action' column for the project link that you want to make the primary link. A  symbol will be displayed in the 'Primary' column next to the link.
Note: The 'Primary' column and 'Make Primary' link will appear only if you have set up multiple project links to the same application, for example if you have linked a Confluence space to a number of JIRA projects.

Trusted Applications

A '**trusted application**' is an application that Crucible will allow to access specific functions in Crucible on behalf of any user, without the user logging in to Crucible. You can configure Trusted Applications authentication between FishEye, Crucible, JIRA (3.12 and later) and Confluence (2.7 and later).

Using the bundled Application Links plugin, you can configure application links with Trusted Applications authentication as well as other types of authentication.

For further instructions, please see [Configuring Application Links](#).

Related Topics

[Configuring Application Links](#)

[JIRA integration in Crucible](#)

Managing add-ons

An add-on is an installable component that supplements or enhances the functionality of Crucible in some way. For example, the [Automatic Review Creator](#) automatically creates a Crucible review each time a commit is made to a FishEye repository. Other add-ons are available for reviewing changes in Git or Subversion source code repositories, and for using Crucible features directly from the IntelliJ IDEA interface.

Crucible comes with many pre-installed add-ons (called system add-ons). You can install more add-ons, either by acquiring the add-on from the [Atlassian Marketplace](#) or by uploading it from your file system. This means that you can install add-ons that you have developed yourself. For information about developing your own add-ons for Crucible, see the [Crucible Developer documentation](#).

On this page:

- [About the Universal Plugin Manager \(UPM\)](#)
- [Administering Add-ons in Crucible](#)



You may notice that the terms 'add-on' and 'plugin' both appear in the Atlassian documentation and tools. While the terms are often used interchangeably, there is a difference. A plugin is a type of add-on that can be installed into an Atlassian host application. Plugins are what developers create with the

Atlassian SDK. But there are other types of add-ons as well. For example, the JIRA client is an add-on that runs as a separate program rather than as a plugin to JIRA. This documentation uses the term 'add-on' most often.

About the Universal Plugin Manager (UPM)

You administer add-ons for Crucible using the Universal Plugin Manager (UPM). The UPM is itself an add-on that exposes add-on administration pages in the Crucible Administration Console. UPM works across Atlassian applications, providing a consistent interface for administering add-ons in Crucible, Confluence, Fisheye, JIRA, Stash and Bamboo.

UPM comes pre-installed in recent versions of all Atlassian applications, so you do not normally need to install it yourself. However, like other add-ons, the UPM software is subject to regular software updates. Before administering add-ons in Crucible, therefore, you should [verify your version](#) of the UPM and update it if needed.

Administering Add-ons in Crucible

You can update UPM, or any add-on, from the UPM's own add-on administration pages. Additionally, you can perform these tasks from the UPM administration pages:

- Install or remove add-ons
- Configure add-on settings
- Discover and install new add-ons from the [Atlassian Marketplace](#)
- Enable or disable add-ons and their component modules

For information on performing these add-on administration tasks, see the [Universal Plugin Manager documentation](#).

Crucible Release Notes

Crucible 3.0

30 May 2013

- Redesigned user experience
- Review CLI tool
- Iterative pre-commit reviews
- Platform upgrades: Jetty 8, Infinity 3 DB
- Optimised indexing for new SVN repositories
- Small improvements
- More in the [release notes and changelog](#)

See the [Crucible upgrade guide](#).

Crucible 2.10

15 January 2013

- Inline issue creation
- Repository management REST API
- Repository review creation limit
- More in the [release notes](#)

- [Crucible 2.10 upgrade guide](#)

Crucible 2.9

14 November 2012

- Simpler JIRA integration
- Better performance of the Reviews tab in JIRA
- Faster review creation for large teams
- More in the [release notes](#)
- [Crucible 2.9 upgrade guide](#)

Crucible 2.8

15 August 2012

- Mentions
- Shares
- Improved performance for the projects listing
- Support for Subversion 1.7
- End of life announcements
- More in the [release notes](#)
- [Crucible 2.8 Upgrade Guide](#)

Crucible 2.7

7 September 2011

- JIRA Transitions in Crucible
- Review Reminders
- Small Improvements
- More in the [release notes](#)
- [Crucible 2.7 Upgrade Guide](#)

Crucible 2.6

6 June 2011

- New Quick Search
- HTML Emails for Reviews
- Dashboard and Navigation Improvements
- SQL Server Support
- Oracle Support
- Review Creation without Metadata Changes
- Improved Patch Anchoring
- More in the [release notes](#)
- [Crucible 2.6 Upgrade Guide](#)

Crucible 2.5

8 February 2011

- Oracle (Beta)
- Redesigned Activity Stream
- Improved Header
- Comment Notification Batching

- More in the [release notes](#)
- [Crucible 2.5 Upgrade Guide](#)

▼ [Crucible older release notes \(click to expand\)](#)

Crucible 2.4

20 October 2010

- Easier Application Linking
- Native Repository Access
- Starter Licenses
- Adding Changesets to Reviews Simplified
- User Interface Improvements
- Snippets Tweaks
- More in the [release notes](#)
- [Crucible 2.4 Upgrade Guide](#)

Crucible 2.3

26 May 2010

- Snippet Reviews
- Changeset Discussions
- Mercurial SCM Alpha
- Review Coverage report
- Revamped Installation Process
- Gadgets
- More in the [release notes](#)
- [Crucible 2.3 Upgrade Guide](#)

Crucible 2.2

18 February 2010

- Smart Pre-Commit (Patch) Support
- 'No Moderator' Reviews
- Wizard-Like Review Creation
- Integrated Timetracking Between Crucible and JIRA
- Edit Mode for Reviews
- More in the [release notes](#)
- [Crucible 2.2 Upgrade Guide](#)

Crucible 2.1

12 November 2009

- Wiki Markup Rendering
- Progress Tracking
- Usability and Productivity Updates
- Streamlined JIRA Integration
- Review Time Tracking
- Review History Dialog
- "Blockers" Reports
- Threaded Comments

- [Plugin Developer Tools](#)
- More in the [release notes](#)
- [Crucible 2.1 Upgrade Guide](#)

Crucible 2.0

30 June 2009

- Support for iterative reviews
- New User Interface
- Indicators for read/unread comments
- Enhanced JIRA integration
- More in the [release notes](#)
- [Crucible 2.0 Upgrade Guide](#)

Crucible 1.6

23 September 2008

- Support for non-FishEye repositories
- Confluence page reviews
- Shared file system repositories
- Enhanced pre-commit reviews & image support
- Multiple admin users
- Expanded API
- More in the [release notes](#)
- [Crucible 1.6 Upgrade Guide](#)

Crucible 1.5

14 April 2008

- Project Dashboard
- Filtered comments & defects search, with statistical summary
- Customisable email templates
- Improvements to Crucible Plugin API beta
- More in the [release notes](#)
- [Crucible 1.5 Upgrade Guide](#)

Crucible 1.2

5 Dec 2007

- Reviews grouped into projects
- Customisable permission schemes
- Plugin API
- Enhancements to user management
- JIRA integration
- Crucible 1.2 includes FishEye 1.4
- More in the [release notes](#)
- [Crucible 1.2 Upgrade Guide](#)

Crucible 1.1

18 September 2007

- Pre-commit review (patch review)
- Review participants can keep track of their progress through a review by marking each file as "done"
- Side-by-side diff mode within the Review display
- Syntax highlighting when displaying a diff
- More in the [release notes](#)
- [Crucible 1.1 Upgrade Guide](#)

Crucible 1.0.x Changelog

▼ [Security advisories \(click to expand\)](#)

Security advisories

- [FishEye and Crucible Security Advisory 2012-08-21](#)
- [FishEye and Crucible Security Advisory 2012-05-17](#)
- [FishEye and Crucible Security Advisory 2012-01-31](#)
- [FishEye and Crucible Security Advisory 2011-11-22](#)
- [FishEye and Crucible Security Advisory 2011-05-16](#)
- [FishEye and Crucible Security Advisory 2011-01-12](#)
- [Crucible Security Advisory 2010-06-16](#)
- [Crucible Security Advisory 2010-05-04](#)

Crucible upgrade guide

This page describes how to upgrade to a new version of Crucible.

- For the latest Crucible release, see [Crucible Release Notes](#).
- Read about how your [Crucible installation works with FishEye](#).
- For production environments we recommend that you test the Crucible upgrade on a QA server before deploying to production.

On this page:

- [Upgrade steps](#)
- [Upgrading to Crucible 3.0](#)
- [Checking for known issues and troubleshooting the Crucible upgrade](#)

Upgrade steps

This section provides general instructions for upgrading Crucible. See also the specific notes on this page for the version of Crucible you are upgrading to. We *strongly recommend* that you upgrade Crucible by following these steps:

- Back up your **entire** Crucible instance (see [Backing up and restoring Crucible data](#)):
 - If you are backing up your Crucible instance via the Admin interface, tick all of the **Include** checkboxes (e.g. plugins, templates, uploads, SQL database, etc).
 - If you are backing up your Crucible instance using the command-line interface, do not use any [exclusion options](#).
- Read the [Release Notes and Changelog](#) and version-specific Upgrade Guides for the version you are upgrading to, as well as for any versions you are skipping.
- Read the [Supported platforms](#) page for the full list of supported platforms for Crucible.
- [Download](#) the Crucible zip file.

Your upgrade procedure depends on whether you are using a `FISHEYE_INST` directory (i.e. "FishEye instance" directory).

- The `FISHEYE_INST` directory is the FishEye data directory (*not* the installation directory) and has a location defined by the `FISHEYE_INST` environment variable. It is used to keep the FishEye data

completely separate from the FishEye/Crucible application files. We recommend that you configure FishEye/Crucible to use a `FISHEYE_INST` directory for production instances. Read more about `FISHEYE_INST` in [Installing FishEye on Windows](#) or [Installing FishEye on Linux and Mac](#).

- The `<FishEye home directory>` is the location of the FishEye/Crucible application files.

NOTE: For all methods below, if you previously ran FishEye as a Windows service and are installing the new version of FishEye in a new location, you need to reinstall FishEye as a Windows service. Make sure to run `...\wrapper\bin\Fisheye-Uninstall-NTService.bat` from the old location. Subsequently, prior to starting the new instance of FishEye, follow these instructions to set up [Fisheye as a Windows service](#) again. Make sure to copy over the changes from the old `...\wrapper\conf\wrapper.conf` file to the new `wrapper.conf` file.

Method 1: Using a `FISHEYE_INST` directory

▼ [Click here to expand...](#)

If you have FishEye/Crucible configured to use a `FISHEYE_INST` directory, then follow the instructions below. This is the recommended scenario for production installations.

1. Shut down your existing FishEye/Crucible server, using `bin\stop.bat` or `bin\stop.sh` from the `<FishEye home directory>`.
2. Make a backup of your `FISHEYE_INST` directory.
3. Download [FishEye](#) or [Crucible](#).
4. Extract the new FishEye/Crucible version to a new directory.
5. Leave your `FISHEYE_INST` environment variable set to its existing location. Both FishEye and Crucible use this variable.
 - Please be aware that jar files in the `FISHEYE_INST/lib` directory may conflict with those required for FishEye's normal operation. Jar files in this directory should be limited to those which provide functionality not provided by FishEye (e.g. database drivers).
6. Start FishEye/Crucible from the new installation directory by running `bin/run.sh`. (Use `run.bat` on Windows.)
7. Follow any version-specific instructions found in the [FishEye upgrade guide](#) or [Crucible upgrade guide](#).

Method 2: Without a `FISHEYE_INST` directory

▼ [Click here to expand...](#)

If you do not have FishEye/Crucible configured to use a `FISHEYE_INST` directory and do not want to set one up, then follow the instructions below. The `<FishEye home directory>` is the location of the existing FishEye/Crucible installation. Note that this is the typical scenario for evaluation installations, and is not recommended for production installations.

You will need to copy some files from your old FishEye/Crucible installation to your new one.

1. Download [FishEye](#) or [Crucible](#).
2. Extract the new FishEye/Crucible archive into a directory such as `<New FishEye home directory>`.
3. Shut down the old FishEye/Crucible server, using `bin\stop.bat` or `bin\stop.sh` from the `<FishEye home directory>`.
4. Copy `<FishEye home directory>/config.xml` to `<New FishEye home directory>`.
5. Delete the `<New FishEye home directory>/var` and `<New FishEye home directory>/cache` directories.
6. Copy (or move) the `<FishEye home directory>/var` directory to `<New FishEye home directory>/var`.
7. Copy (or move) the `<FishEye home directory>/cache` directory to `<New FishEye home directory>/cache`.

8. Start FishEye/Crucible from the new installation by running `<New FishEye home directory>/bin/run.sh`. (Use `run.bat` on Windows.)
9. Follow any version-specific instructions found in the [FishEye upgrade guide](#) or [Crucible upgrade guide](#).

Method 3: Without a FISHEYE_INST directory, but would like to set one up

▼ [Click here to expand...](#)

If you do not have FishEye/Crucible configured to use a `FISHEYE_INST` directory but would like to set one up, then follow the instructions below. You may wish to do this when reconfiguring an existing installation for a production environment.

The `FISHEYE_INST` directory is the FishEye data directory, which has a location defined by the `FISHEYE_INST` environment variable, and which should be completely separate from the `<FishEye home directory>`. The `<FishEye home directory>` is the location of the existing FishEye/Crucible installation.

1. Download [FishEye](#) or [Crucible](#).
2. Shut down the existing FishEye/Crucible server, using `bin\stop.bat` or `bin\stop.sh` from the `<FishEye home directory>`.
3. Set up the `FISHEYE_INST` [environment variable](#), then create the `FISHEYE_INST` directory on your file system.
4. Copy `<FishEye home directory>/config.xml` to the `FISHEYE_INST` directory.
5. Copy the `<FishEye home directory>/var` directory to the `FISHEYE_INST` directory.
6. Copy the `<FishEye home directory>/cache` directory to the `FISHEYE_INST` directory.
7. If it exists, copy the `<FishEye home directory>/data` directory to the `FISHEYE_INST` directory.
8. Extract the new FishEye/Crucible archive into a directory such as `<New FishEye home directory>`.
9. Start FishEye/Crucible from the new installation by running `<New FishEye home directory>/bin/run.sh`. (Use `run.bat` on Windows.)
 - If your configuration is not automatically picked up and you cannot see your existing repositories, check your **Administration > Sys-Info** page, where you will see information about the `<FishEye home directory>` and `FISHEYE_INST`. Check that your `FISHEYE_INST` is pointing to the right directory.
10. Follow any version-specific instructions found in the [FishEye upgrade guide](#) or [Crucible upgrade guide](#).

Upgrading to Crucible 3.0

Please also see the [Upgrade steps](#) section above.

Please note the following changes in Crucible 3.0:

Jetty 8

Crucible 3.0 now uses Jetty 8 as its web server and Java servlet container. This change should be completely transparent when you upgrade to Crucible 3.0. However, if you have customised either your `jetty-web.xml` file, or the `maxFormContentSize` [system property](#), you will need to update those in the new version. See [Enabling Access Logging in FishEye](#) and this [FishEye KB page](#) for more information.

Infinity DB

Crucible 3.0 now uses the InfinityDB 3.0 database internally to provide improved performance for concurrent access to Crucible. This change is transparent to users in all respects.

Pipelined indexing

Crucible 3.0 introduces a new indexing approach that splits the repository indexing process into separate tasks that can be performed in a phased and concurrent way. Users will benefit from the way in which Crucible functionality, such as review creation, now becomes available as indexing progresses. This change is transparent to users in all other respects. See [Pipelined indexing](#).















Improved handling of user preferences with session cookies

Upgrading may result in some users losing their preferences.

SQL Server transaction isolation configuration

We recommend a configuration change for SQL Server to use snapshot mode for the transaction isolation level – see [Migrating to SQL Server](#). This change avoids occasional database deadlocks, and prevents performance warning messages in the logs and admin screens.

Known issues (7 issues)

Type	Key	Summary	Status
	CRUC-6521	File creation is not displayed as change	 Open
	CRUC-6528	User still suggested for review after disabling for him Crucible	 Open
	CRUC-6525	upgrade to 3.x release fails when there are several null paths in db	 Open
	CRUC-6520	If the P4DIFF environment variable is set, the crucible.py review tool might not be able to get the patch properly	 Open
	CRUC-6487	ConstraintViolationException: could not insert: [com.cenqua.crucible.model.CommentReadStatus]	 Open
	CRUC-6470	Inline issue creation: when not logged in to Crucible the review comment icon is not fetched	 Open
	CRUC-6447	Providing s FishEye licence does not allow repositories to be	 Open

started until FishEye
itself has been stopped
and started

Checking for known issues and troubleshooting the Crucible upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues.** Sometimes we find out about a problem with the latest version of Crucible after we have released the software. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the [FishEye and Crucible Known Issues](#) in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the Crucible Knowledge Base.
- If you encounter a problem during the upgrade and cannot solve it, please create a [support ticket](#) and one of our support engineers will help you.

Upgrading from FishEye to Crucible

If you have been using FishEye and now want to move to Crucible, you can do this without losing your FishEye repositories.

 Read about how your [Crucible installation works with FishEye](#).

`FISHEYE_INST` – this is an environment variable that defines the path to the FishEye data directory, which is used for installations where the FishEye instance data is stored in a separate location from the install (home) directory. Both Crucible and FishEye use this environment variable.

 Read more about the `FISHEYE_INST` [environment variable](#).

On this page:

- [Upgrade procedure](#)
 - [Method 1: Without a FISHEYE_INST directory \(default\)](#)
 - [Method 2: Using a FISHEYE_INST directory](#)
 - [Method 3: No FISHEYE_INST directory, but wish to use one](#)
- [Initial Crucible configuration](#)

Upgrade procedure

- **We strongly recommend that you make a backup of your data before following one of the methods below.** Refer to [making a backup](#).
- Follow **Method 1** if you have a default configuration and are not using a `FISHEYE_INST` directory (that is, your FishEye binaries and data are all stored under the same location, in the default `<FishEye home directory>`). This is the typical scenario for evaluation installations.
- Follow **Method 2** below if you have FishEye configured to use a `FISHEYE_INST` directory (that is, your FishEye binaries are stored in the `<FishEye home directory>`, separately from your FishEye data directory, which has a location defined by `FISHEYE_INST`). This is the recommended scenario for production installations.
- Follow **Method 3** if you are not using a `FISHEYE_INST` directory but would now like to start using one. You may wish to do this when configuring an existing installation for a production environment.

Method 1: Without a FISHEYE_INST directory (default)

1. [Download](#) Crucible.
2. Extract the new Crucible archive into a directory, which we will refer to as <Crucible directory>.
3. Shut down your existing FishEye server, if it is running.
4. Copy <FishEye home directory>/config.xml to <Crucible directory>.
5. Delete the <Crucible directory>/var directory.
6. Copy the <FishEye home directory>/var directory to <Crucible directory>/var.
7. Follow any version-specific instructions found in the [Release Notes](#).
8. Start Crucible from the new installation by running <Crucible directory>/bin/run.sh. (Use run.bat on Windows).
9. Follow the initial configuration steps outlined below.

Method 2: Using a FISHEYE_INST directory

1. Shut down your existing FishEye server, if it is running.
2. Make a backup of your FISHEYE_INST directory.
3. [Download](#) Crucible and unzip the archive into a directory, which we will refer to as <Crucible directory>.
4. Leave your FISHEYE_INST environment variable set to its existing location. Crucible will use this variable.
5. Start Crucible from the new installation by running <Crucible directory>/bin/run.sh. (Use run.bat on Windows).
6. Follow the initial configuration steps outlined below.

Method 3: No FISHEYE_INST directory, but wish to use one

1. Shut down your existing FishEye server, if it is running.
2. Create a new directory on your filesystem, then set up a FISHEYE_INST [environment variable](#) to point to the new directory.
3. Copy the <FishEye home directory>/config.xml to the FISHEYE_INST directory.
4. Copy the <FishEye home directory>/var directory to the FISHEYE_INST directory.
5. [Download](#) Crucible.
6. Extract the new Crucible archive into a directory such as <Crucible directory>.
7. Start Crucible from the new installation by running <Crucible directory>/bin/run.sh. (Use run.bat on Windows).
8. Follow the initial configuration steps outlined below.
9. If your configuration is not automatically picked up and you cannot see your existing repositories, check your Administration > Sys-Info page, where you will see information about the <Crucible directory> and FISHEYE_INST. Check that FISHEYE_INST is pointing to the correct directory - it should point to the location to where you copied the existing FishEye files in steps 3 and 4 above.

Initial Crucible configuration

1. You can access FishEye immediately by going to <http://HOSTNAME:8060/> in a browser.
2. The first time you run FishEye, enter your Crucible license key. To do this, update your Crucible license by clicking **Sys-Info/Support** in the admin area. On this screen, you can enter your Crucible license key. You can view your license key [here](#). The Crucible functionality will be instantly unlocked.
3. If you do not already have user accounts configured, you will need to do this via the Administration screens or by configuring Crucible/FishEye to use external authentication.
To add users:
 - Open the [FishEye Administration screens](#) at <http://HOSTNAME:8060/admin/>.
 - Click **Users/Security** under 'Global Settings' in the admin area.
Read more details about the different ways of [creating users](#).
4. Crucible can email each review participant on a range of changes. Each user can then set up their own

preferences. This is described in the [User Profile guide](#). First, you must [set up the SMTP Server](#).

Crucible 3.0 release notes

30 May 2013

Today we're excited to release [Crucible 3.0](#), which introduces huge indexing performance gains – especially for Subversion repositories – and significant upgrades to how you perform pre-commit reviews. We think development teams will be able to work faster, every day.

If you are upgrading from an earlier version of Crucible, please read the [Crucible upgrade guide](#).

The Crucible 3.0 changelog is [at the bottom](#) of this page.

Try it for FREE ➞

Redesigned user experience

We've made a few key design changes to help you work faster with your reviews:

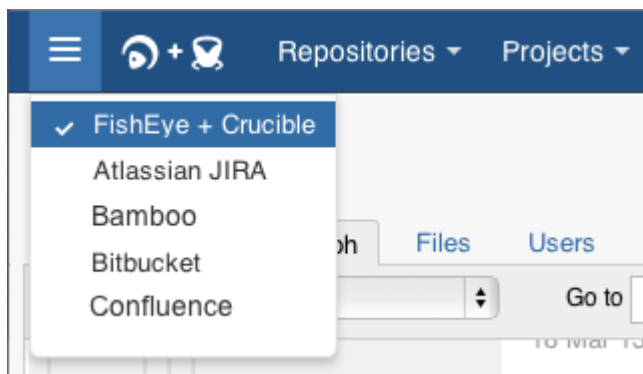
New global header

The new header across the top of the page makes it quicker to access recent repositories, projects, people and reviews, and has the large **Create review** button at top center, right where you can find it.



Application navigator

The new application navigator, at the left of the header, connects you directly to your other applications, such as JIRA and Bamboo. Now you can switch between Crucible and JIRA – or any other Atlassian application – all from the Crucible header. No more bookmarks in your browser; we do the job for you. Admins can easily configure which apps appear in the navigator – just click **Application navigator** in the admin area.



JIRA Reviews tab redesign

We wanted to simplify the experience but still give you the important information you need to make decisions around your issues. We think you'll like it:

Activity

All	Comments	Work Log	History	Activity	Commits	Source	Reviews	Builds
-----	----------	----------	---------	----------	---------	--------	---------	--------

CR-FE-7319 CLOSED

FEGRU-3340 document @experimental REST calls added for barracuda performance testing
 {cs:id=42f8aedebe471f2adb5c6dac08d03635b11b17b|rep=FE-hg}
 : **FEGRU-3340** added javadocs, test

CR-FE-7341 DRAFT

Crucible code reviews made easy
 Inline comments and threaded discussions.

Review CLI tool

Crucible now ships with a command line tool that allows you to quickly create reviews in Crucible directly from your terminal. The tool takes the uncommitted changes in your workspace and creates a review for them in Crucible. You can use the tool to create new reviews, and to update existing pre-commit reviews with new patches. [Read more..](#)

Iterative pre-commit reviews

Crucible now supports iterative reviews for both post-commit and pre-commit reviews. This allows you to update the review with new versions of files, and changesets (for post-commit reviews) or patches (for pre-commit reviews) that have been created after the review was started.

Iterative reviews allow your team to discuss changing code in the context of a single review. This lets the reviewers see all the related changes together, and to more easily keep track of comments and defects. [Read more...](#)

Create reviews sooner for new SVN repositories

We've introduced a new approach that splits the indexing process into separate tasks that can be performed in a phased and concurrent way. This allows you to start using core functionality in Crucible, such as creating reviews, up to 15X sooner than in Crucible 2.10. You can get on with your work, while Crucible quietly completes the fine details of indexing in the background. [Read more...](#)

Small improvements

Faster browsing for large teams

Crucible now uses the InfinityDB 3.0 internal database to provide faster concurrent access. Your team gets a better browsing experience!

Quicker review creation

We've optimised some SQL statements in Crucible. You spend less time creating, or modifying, reviews.

Better review creation from JIRA when Stash is integrated

We've improved the integration between JIRA and Crucible. Now you can create a review for all the commits related to a JIRA issue, even when Atlassian Stash is integrated with JIRA.

Activity


All Comments Work Log History Activity Commits **Source** Reviews Builds

Source changes - FishEye

Maciej Swinarski <mswinarski@atlassian.com> committed [7a373ea...](#) (2 files) 28/May/13 2:42 AM


Reviews: none Create review for all 10 commits

merge with 3.0-[FECRU-3340](#)

FE-hg  3.0

-	-	build.xml
-	-	src/java/com/atlassian/feclu/gwt/admin/client/ui/repositories/displays/vieworedit/SummaryTab.ui.xml

Create review



Diff hunk shortcuts

We've changed the 'j' and 'k' keyboard shortcuts to now work with diff hunks when looking at a review, so as to be consistent with their new behaviour in FishEye.

Improved handling of user preferences with session cookies

We've made session cookies more robust, but this may result in your existing preferences being lost at upgrade time.

REST API change

The 'groups-v1' REST endpoint now requires the user to be an administrator – it will fail authentication and return a 403 otherwise. [Read more...](#)




Change log

This section will contain information about the Crucible 3.0 minor releases as they become available. These releases will be free to all customers with [active Crucible software maintenance](#).

If you are upgrading from an earlier version of Crucible, please read the [Crucible upgrade guide](#).

The issues listed below are just the highlights of all those that have been resolved for the Crucible 3.0.x releases.

2 JULY 2013 - Crucible 3.0.2 (3 issues)

Type	Key	Summary
	CRUC-6503	Crucible upgrade may fail in the middle if DB socket timeout too short
	CRUC-6504	Review pre-commit tool can fail to include all the lines for an added file with Perforce
	CRUC-6416	Optimize number of database queries for Crucible instances with Many Projects and Permission Schemes

6 JUNE 2013 - Crucible 3.0.1 (1 issues)

Type	Key	Summary
	CRUC-6491	duplicated null cru_stored_path rows leads to 3.0 upgrade problems
28 May 2013 - Crucible 3.0 (28 issues)		
Type	Key	Summary
	CRUC-6434	Add disclaimer that "Create crucible review" is only available with FishEye integration
	CRUC-6414	Update on 'Editing a Project' documentation
	CRUC-6271	Update on Using Gadgets in Crucible documentation
	CRUC-6410	Allow /filter/details to include a date range filter
	CRUC-6361	Change semantics of j/k shortcuts in Crucible, be consistent with the new diff navigation in Fisheye
	CRUC-6394	Crucible Project Repository Link is Broken if Leading Slash Is Omitted
	CRUC-6391	Documentation Update for JIRA Integration
	CRUC-6349	Crucible and FishEye Page Contains Outdated Information
	CRUC-4518	Crucible regularly hangs and is very slow
	CRUC-2998	Iterative pre-commit reviews
	CRUC-6466	Dismiss barracuda's feature discovery message when it is closed.
	CRUC-6463	Multiple open transactions in idle instance
	CRUC-6454	Scheduled user synchronization doesn't close DB sessions
	CRUC-6412	Stream has already been closed on getting Notifications
	CRUC-6408	URLs in comments with #

followed by ! and other characters are not correctly generated.



CRUC-6398

Unable to link to JIRA issues containing a project key longer than 10 characters, containing underscores _



CRUC-6395

Inconsistent Repository Links on Project Page



CRUC-6390

Documentation Update for Smart Commits



CRUC-6385

An SQLException can corrupt a connection in the connection pool and cause Crucible to become unstable



CRUC-6380

Reinstate the Star/Favourite link for comments



CRUC-6345

Can not remove reviewers in IE



CRUC-6268

When creating issue from comment summary put by the user gets lost on JIRA/project change



CRUC-6246

User hovers are broken in IE9 (and probably 8 and 10 as well)



CRUC-6226

Is not possible to remove users from a review when using Internet Explorer 8



CRUC-6154

Crucible sends cookies for UI preferences that can end up larger than the small Jetty default of 4096, consider alternative approaches to sending UI preferences and consider increasing the Jetty default



CRUC-5683

Requests to remote APIs are processed anonymously if CAPTCHA attempt limit is exceeded



CRUC-5238

URLs with # in comments do not render properly



CRUC-2747

Review details says "Reviewer is 100% complete" when she hasn't completed the review

Crucible 2.10 release notes

15 January 2013

With great pleasure, Atlassian presents **Crucible 2.10**, which introduces the best JIRA integration we have ever built.

- See the [change log](#) for Crucible 2.10.x minor releases.
- [Visit our issue tracker](#) to see the full list of improvements and bug fixes in Crucible and FishEye for this release.
- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the [Crucible 2.10 Upgrade Guide](#) for further essential information about your upgrade.
- **Known Issues.** Please check the [important technical advisories](#) on the front page of the Knowledge Base for information about any known issues for this release.
- **JIRA 5.0 integration.** The features described below are supported by **JIRA 5.0**, or later, with the latest version of the [JIRA FishEye plugin](#).

Highlights of this release:

- [Inline Issue Creation](#)
- [Repository Management REST API](#)
- [Repository review creation limit](#)
- [Other announcements](#)



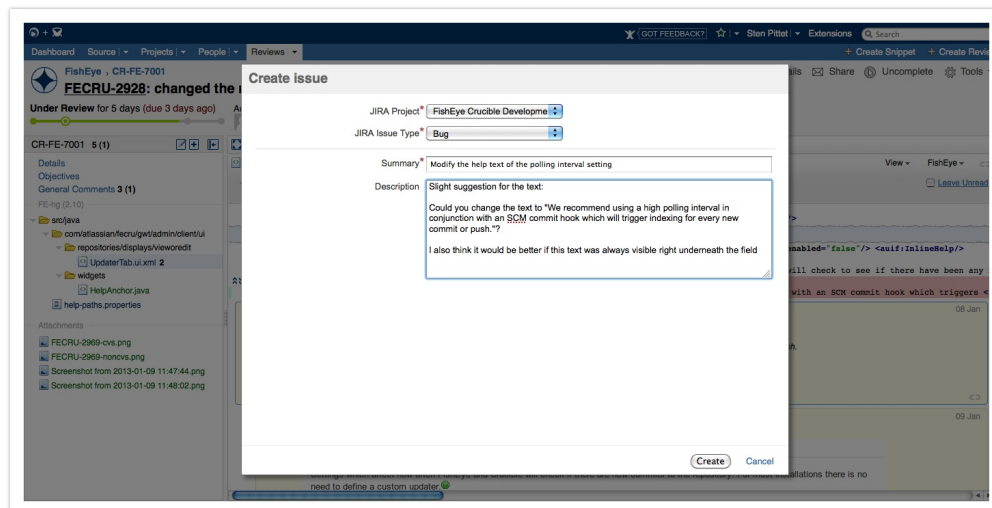
Providing feedback:

Please log your [votes](#) and [issues](#). They help us decide what needs doing, and are much appreciated!



Inline Issue Creation

With Crucible 2.10 you can now create any type of issue from your reviews. You only need to link your Crucible and JIRA instances to get it working. Once this is done you can create issues in any JIRA project you have access to.



2

Repository Management REST API

Crucible 2.10 lets you optimize your instance by using the REST API to trigger indexing when it's necessary. Instead of configuring Crucible to poll each repository every minute, you can add a post-commit or post-receive hook to your repositories which will ping Crucible when new commits need to be indexed.

If your repositories are hosted on Bitbucket or Github you will find corresponding Service Hooks in the settings of your repositories which will do the job for you.



3

Repository review creation limit

Crucible 2.10 now has a limit to prevent oversized reviews from being created during wrong manipulations. We have set the limit fairly high at 800 file revisions, a number way above the recommended number of files per review. The limit will help to prevent your instance from having performance issues.

4

Other announcements

- Improved performance of the repositories listing in the administration interface.
- Snippets share the same permission as reviews.
- You can now easily step through the diffs in reviews via shortcuts.

The Crucible 2.10 team

Development

Core team

Brendan Humphreys
Conor MacNeill
Geoff Crain
Lukasz Pater
Maciej Swinarski
Piotr wity wicki
Richard Stephens
Tom Davies
Valery Trubnikov

Team lead

Nick Pellow

Product management

Sten Pittet

Project manager

Anton Mazkovo

Support

Ajay Sridhar
Daniel Rohan
Douglas Fabretti
Felipe Kraemer
Gurleen Anand
Kah Loun Foong
Leonardo Macedo
Malik Mangier
Patrick Hill
Renan Battaglin
Rene Verschoor
Ricardo Martins

Others

Product marketing

Giancarlo Lionetti

Quality assurance

George Filippoff
Mark Hrynczak

Technical writing

Paul Watson


Operations

James Fleming



Crucible 2.10 changelog

This page contains information about the Crucible 2.10 minor releases. FishEye license holders should also check the [FishEye 2.10 Changelog](#).

See the [Crucible 2.10 release notes](#) for details of what's new in 2.10.

 Please read the [Crucible 2.10 Upgrade Guide](#) before upgrading to any of the minor releases below.



06 Jun 2013 - Crucible 2.10.5 (1 issues)

Type	Key	Summary	Status
	CRUC-6463	Multiple open transactions in idle instance	 Closed















02 Apr 2013 - Crucible 2.10.4 (6 issues)

Type	Key	Summary	Status
	CRUC-6394	Crucible Project Repository Link is Broken if Leading Slash Is Omitted	 Closed
	CRUC-6412	Stream has already been closed on getting Notifications	 Closed
	CRUC-6408	URLs in comments with # followed by ! and other characters are not correctly generated.	 Closed
	CRUC-6395	Inconsistent Repository Links on Project Page	 Closed
	CRUC-5238	URLs with # in comments do not render properly	 Closed
	CRUC-2747	Review details says "Reviewer is 100% complete" when she hasn't completed the review	 Closed





19 Mar 2013 - Crucible 2.10.3 (1 issues)

Type	Key	Summary	Status
	CRUC-6398	Unable to link to JIRA issues containing a project key longer than 10 characters, containing underscores —	 Closed

25 Feb 2013 - Crucible 2.10.2 (7 issues)

Type	Key	Summary	Status
	CRUC-6385	An SQLException can corrupt a connection in the connection pool and cause Crucible to become unstable	 Closed
	CRUC-6383	Inline Issue Creation doesn't remember the last issue type selected	 Closed
	CRUC-6380	Reinstate the Star/Favourite link for comments	 Closed
	CRUC-6350	JIRA errors being displayed inline on review comments	 Closed
	CRUC-6345	Can not remove reviewers in IE	 Closed
	CRUC-6268	When creating issue from comment summary put by the user gets lost on JIRA/project change	 Closed
	CRUC-6246	User hovers are broken in IE9 (and probably 8 and 10 as well)	 Closed

29 Jan 2013 - Crucible 2.10.1 (4 issues)

Type	Key	Summary	Status
	CRUC-6274	Update Add Comments related Crucible document	 Closed
	CRUC-6344	Change Inline Issue	 Closed

Creation upgrade task warning



CRUC-6342

LazyInitializationExcepti
on during indexing of
repositories containing
Changeset Comments

Closed





CRUC-6333

IIC Plugin makes
unneeded AJAX
requests on pages other
than the review page

Closed

15 Jan 2013 - Crucible 2.10.0 (19 issues)

Type	Key	Summary	Status
	CRUC-6282	If an Entity Link is present between a JIRA Project and a Crucible Project, then a review created from the JIRA Source Tab should default to the entity linked Crucible Project.	Closed
	CRUC-6351	Managing Add-Ons Page Refers to Add-On That Is Not Compatible With Latest Versions	Closed
	CRUC-6143	When Creating Jira Issues From a Code Review Provide Capability to Handle REQUIRED Fields	Closed
	CRUC-6031	Need keyboard shortcuts for moving to previous, current, and next diff.	Closed
	CRUC-5847	The Graph should display % and also value.	Closed
	CRUC-5628	Add Ability to Limit Number and/or Size of Crucible Reviews	Closed
	CRUC-6267	No success/error notification when creating JIRA issue directly from comment	Closed

	CRUC-6266	Smart commit plugin does not handle multi-line commit messages	 Closed
	CRUC-6259	Share review user suggestion contain deleted user	 Closed
	CRUC-6249	There is no pre-load handling for next diff?	 Closed
	CRUC-6248	Double infinite spinner, what does it mean?	 Closed
	CRUC-6210	Deleted users are appearing in reviewer, moderator dropdown	 Closed
	CRUC-6142	"Edit Review Details" end sometimes in "The server is not responding" but the server is ok	 Closed
	CRUC-6072	FeCru REST API docs don't provide description of the XML tags.	 Closed
	CRUC-6038	Error creating subtask in JIRA: com.atlassian.jira.rpc.exception.RemotePermissionException: This issue does not exist or you don't have permission to view it.	 Closed
	CRUC-5716	GWT error when navigating away from loading page	 Closed
	CRUC-5666	Snippet review link is displayed even if user doesn't have permission to create a review in any project	 Closed
	CRUC-2667	Not able to create the subtask in JIRA if some of the fields are required in the subtask creation screen	 Closed
	CRUC-2202	NPE thrown when trying	

[to change project key](#)

Closed

Crucible 2.10 upgrade guide

Please refer to the [FishEye 2.10 upgrade guide](#) for important notes on upgrading to Crucible 2.10.

For details of the new features and improvements in this release, please read the [Crucible 2.10 Release Notes](#).

Upgrading to Crucible 2.10

Crucible Subtask Creation has been deprecated

If you are currently using issue subtask creation please read the following section.

▼ [Click here to expand...](#)

We have improved JIRA issue creation from Crucible with a feature called Inline Issue Creation. It uses JIRA APIs introduced in JIRA 5.0, so it is not compatible with earlier versions. It also has some changed behaviour from the old "Crucible Subtask Creation".

If you are using JIRA 4.4 or earlier

The new feature will not be compatible with your JIRA version. You can revert back to the old behaviour if you want to continue being able to create Crucible subtasks from review comments.

Disabling of the plugin should be automatic on upgrade. Crucible will poll your linked JIRA servers to check their version. If a version earlier than JIRA 5.0 is detected, the 'Inline Issue Creation' plugin will be disabled.

If the plugin is not disabled you can revert to the old behaviour by clicking **Manage Add-ons**, under 'System Settings' in the Admin area. Click **Show system plugins**, find the 'Inline Issue Creation' plugin, and disable it. When you upgrade your JIRA server, you can come back here to re-enable the plugin.

If you are using JIRA 5.0 or later

Removed functionality:

- The ability to "Resolve" after the issue has been created has been removed. Users will now have to transition issues via the JIRA interface.
- Existing subtasks that have been created will still be visible, however you will not be able to resolve them.

New functionality:

- We now support various required fields, both built-in and custom field types.
- There is no longer any configuration required, except for the Application Link to JIRA.
- We now support 'normal' (non-subtask) issue creation, users can choose what Project and Issue Type to create in, and we support various required fields.
- There is now a report at the top of the review for all issues created.
- There is now a Remote Issue Link from the JIRA issue back to the comment.
 - Note that Issue Linking can be disabled in JIRA.
 - The user creating the issue must have the permission to create Remote Issue Links.
 - The latest version of the JIRA FishEye Plugin will hide these links from users without the View Source permission.

Crucible 2.9 release notes

14 November 2012

With great pleasure, Atlassian presents **Crucible 2.9**, which introduces the best JIRA integration we have ever built.

- See the [change log](#) for Crucible 2.9.x minor releases.
- [Visit our issue tracker](#) to see the full list of improvements and bug fixes in Crucible and FishEye for this release.
- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the [Crucible 2.9 Upgrade Guide](#) for further essential information about your upgrade.
- **Known Issues.** Please check the [important technical advisories](#) on the front page of the Knowledge Base for information about any known issues for this release.
- **JIRA 5.0 integration.** The features described below are supported by **JIRA 5.0**, or later, with the latest version of the [JIRA FishEye plugin](#).

Highlights of this release:

- [Simpler JIRA integration](#)
- [Better performance of the Reviews tab in JIRA](#)
- [Faster review creation for large teams](#)
- [Other announcements](#)



Providing feedback:

Please log your [votes and issues](#). They help us decide what needs doing, and are much appreciated!



Simpler JIRA integration

With Crucible 2.9, linking your instance to JIRA is as simple as Plug & Play. As soon as you create an Application Link between your JIRA server and your Crucible instance, you get all the power of the JIRA / Crucible integration:

- See in JIRA the list of reviews corresponding to a specific issue
- Navigate to the related review from your issue page
- Get the JIRA data corresponding to issues mentioned in your review comments, titles and objectives

You no longer need to create and maintain multiple links between projects in JIRA and projects in Crucible. Maintaining your JIRA / Crucible integration has never been simpler! [More...](#)

Activity

All Comments Work Log History Activity Commits Source Reviews Builds

CR-FE-6832 Closed

FEGRU-2765: re-enable highlights for ie

{cs:id=e32efa760e915697497b33e10303821747274139|rep=FE-hg}: FEGRU-2765: re-enable highlights for ie

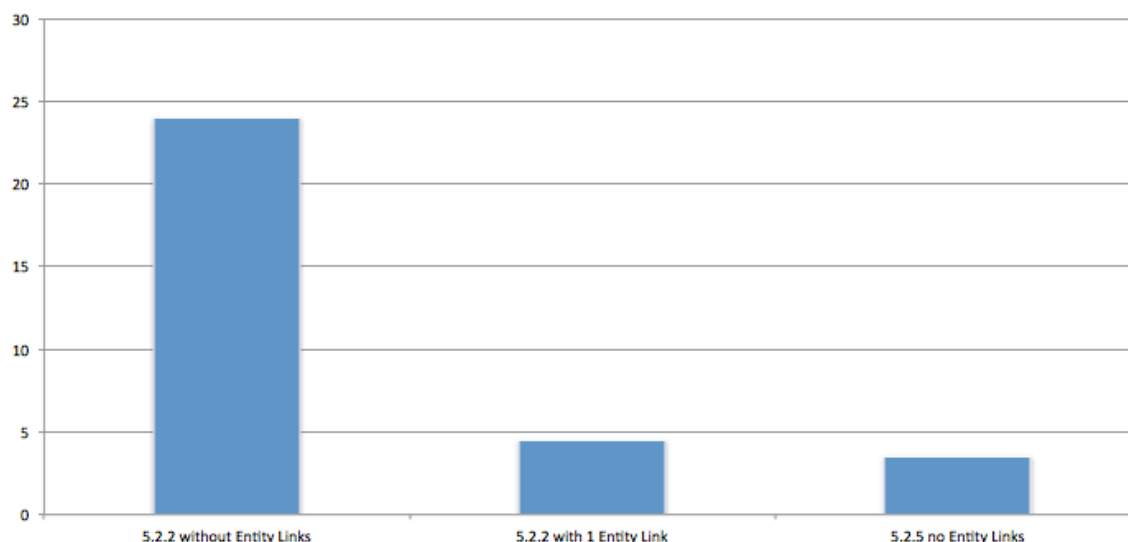
Comment

2

Better performance of the Reviews tab in JIRA

When we changed the implementation of the Crucible / JIRA integration we also improved the performance of the Reviews Tab display in JIRA. You will see your reviews in JIRA faster, even without having to create any links between your JIRA project and your Crucible repositories. In other words, with Crucible 2.9 you spend less time administering your instance, while your users get all the relevant content in JIRA in a better way than before.

Reviews Tab Performance



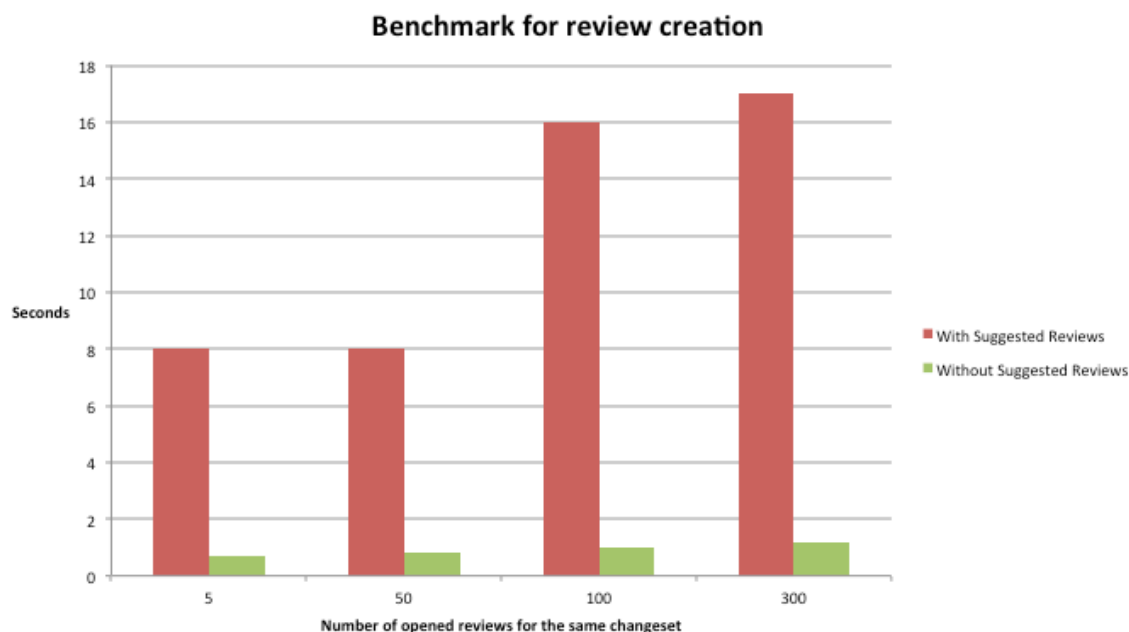
3

Faster review creation for large teams

Crucible is a tool that is built to help organizations and distributed teams perform code reviews. When you have large teams you can find that you always have a large number of reviews waiting to be closed. Prior to Crucible 2.9, this could slow down the review creation process because Crucible looked for other reviews where

changesets might have been included.

With Crucible 2.9 we have removed the Suggested Reviews step during review creation. Not only does this accelerate the process, but it also ensures that performance of the whole Crucible instance is not impacted by single process. The chart below shows the performance improvement we have seen from this modification.



3

Other announcements

- **Suggested reviews removed**

As described above, we have removed the suggested reviews step during review creation, to improve Crucible performance and to ensure that review creation never interferes with the responsiveness of your Crucible instance.

- **Remote API setting always on**

We have removed the Remote API setting from the Server Settings page. From this release onwards, Remote APIs are always accessible, which helps to make the JIRA integration straightforward.

- **Changes to the JIRA settings dialog**

- *Allow Time Tracking Submission* is no longer a configurable option. Users are always able to submit time for their reviews when the JIRA integration is set up.
- We have simplified permissions by removing the *Disable for Unmapped Projects* setting. All permissions to view the reviews tab are now controlled by the Project permission settings in JIRA.
- *Force Project Mappings* has been removed as part of simplifying the JIRA FishEye Plugin behavior. Project links are respected, and act as restrictions on the integration.
- *Max review age* is now only applied to versions of Crucible prior to 2.9.0.

- **Changes to the diff view in reviews**

In order to facilitate the review process and give a clearer interface to see all the modifications and

comments on a particular file we are now showing one file at a time in the reviews. You can use the file tree or the keyboard shortcuts to navigate between files.

The Crucible 2.9 team

Development

Core team

Brendan Humphreys
Conor MacNeill
Geoff Crain
Lukasz Pater
Maciej Swinarski
Piotr wity wicki
Richard Stephens
Tom Davies
Valery Trubnikov

Team lead

Nick Pellow

Product management

Sten Pittet

Project manager

Anton Mazkovo

Support

Ajay Sridhar
Daniel Rohan
Douglas Fabretti
Felipe Kraemer
Gurleen Anand
Kah Loun Foong
Leonardo Macedo
Malik Mangier
Patrick Hill
Renan Battaglin
Rene Verschoor
Ricardo Martins

Others

Product marketing

Giancarlo Lionetti

Quality assurance

George Filippoff

Technical writing

Paul Watson


Operations

James Fleming

Crucible 2.9 changelog

This page contains information about the Crucible 2.9 minor releases. FishEye license holders should also check the [FishEye 2.9 Changelog](#).

See the [Crucible 2.9 release notes](#) for details of what's new in 2.9.0.







 Please read the [Crucible 2.9 Upgrade Guide](#) before upgrading to any of the minor releases below.



From 2.9.1 to 2.9.2

11 December 2012

This is a bug fix release. The complete list of issues is below.

JIRA Issues (4 issues)





Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-4392	Svnkit fine logging causes very large debug logs	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↓	 Closed	Fixed	Dec 03, 2012	Dec 10, 2012
	FE-4391	Validation of start-rev in admin is incorrect	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↓	 Closed	Fixed	Dec 03, 2012	Dec 10, 2012
	FE-4368	Chang eset Comment re-indexing incorrectly uses a threadl	Brenda Humphreys [Atlassian]	Brenda Humphreys [Atlassian]	↑	 Closed	Fixed	Nov 19, 2012	Dec 10, 2012

		ocal session							
	FE-4357	Improve the way permissions are handled, as a lot of time is spent in user/repo permission checks, which should be cached	Brendan Humphreys [Atlassian]	Geoff Crain [Atlassian]	↑	 Closed	Fixed	Nov 06, 2012	Jun 14, 2013

From 2.9.0 to 2.9.1**19 November 2012**

This is a bug fix release. The complete list of issues is below.









JIRA Issues (2 issues)











Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-6279	Next review comment button does not work	Unassigned	Kah Loun Foong [Atlassian]	↓	 Closed	Fixed	Nov 21, 2012	Nov 26, 2012
	CRUC-6272	Crucible calls out to JIRA once per Comment	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↑	 Closed	Fixed	Nov 13, 2012	Nov 18, 2012










Crucible 2.9**14 November 2012**

The complete list of issues is below.

JIRA Issues (12 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-6372	Update doco for "Opening the List of People"	Paul Watson [Atlassian]	Malik Mangier [Atlassian]	↓	 Closed	Fixed	Feb 12, 2013	Mar 22, 2013
	CRUC-6351	Managing Add-Ons Page Refers to Add-On That Is Not Compatible With Latest Versions	Unassigned	Ricardo Martins [Atlassian]	↓	 Closed	Fixed	Jan 30, 2013	Mar 06, 2013
	CRUC-6163	Display month in a literal format for the due date	Val Trubnikov [Atlassian]	Sten Pittet [Atlassian]	↓	 Closed	Fixed	Jul 02, 2012	Sep 13, 2012
	CRUC-6129	Odd and Even rows in all tables should have different	Jeroen De Raedt [Atlassian]	Robert Massaioli [Atlassian]	↓	 Closed	Fixed	May 08, 2012	Oct 25, 2012

		t shadin g betwee n rows.							
	CRUC-2752	if backup cant stop one repository, no caches are included	Conor MacNeill [Atlassian]	Geoff Crain [Atlassian]	↓	 Closed	Fixed	Nov 19, 2009	Oct 31, 2012
	CRUC-6238	Perforce patches cannot be anchored	Richard Stephens [Atlassian]	Richard Stephens [Atlassian]	↑	 Closed	Fixed	Oct 10, 2012	Oct 31, 2012
	CRUC-6231	Gravatar-s avatars dont show	Brendan Humphreys [Atlassian]	Malik Mangier [Atlassian]	↓	 Closed	Fixed	Oct 05, 2012	Oct 31, 2012
	CRUC-6204	Dead link on README.html file	Nick Pellow [Atlassian]	Katie Grigortou [Atlassian]	↑	 Closed	Fixed	Aug 31, 2012	Oct 23, 2012
	CRUC-6138	Deadlocks occur in c3p0 GooGo StatementCache when using MS SQL Server	Val Trubnikov [Atlassian]	Tom Davies [Atlassian]	↑	 Closed	Fixed	May 31, 2012	Nov 05, 2012

	CRUC-6105	Chrome crashes if during a code review the user navigate using the shortcuts	Maciej Swinarski [Atlassian]	Renan Battaglin [Atlassian]		 Closed	Fixed	Apr 05, 2012	Oct 17, 2012
	CRUC-5781	In a Review containing a single Attachment, the 'Go to next element' button causes an infinite Javascript loop	Maciej Swinarski [Atlassian]	Tom Davies [Atlassian]		 Closed	Fixed	Jun 01, 2011	Oct 23, 2012
	CRUC-5731	No entity exists with key <code>\${helper.project.key}</code> of type <code>com.atlassian.applinks.api.application.fecru.FishEyeCrucible</code>	Geoff Crain [Atlassian]	Felipe Kraemer [Atlassian]		 Closed	Fixed	Apr 18, 2011	Oct 28, 2012

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Crucible 2.9 upgrade guide

Please refer to the [FishEye 2.9 upgrade guide](#) for important notes on upgrading to Crucible 2.9.

For details of the new features and improvements in this release, please read the [Crucible 2.9 Release Notes](#).

Crucible 2.8 Release Notes

15 August 2012

With great pleasure, Atlassian presents **Crucible 2.8**, introducing social features and performance improvements.

See the [change log](#) for Crucible 2.8.x minor releases.

Visit our [issue tracker](#) to see the full list of improvements and bug fixes in Crucible and FishEye for this release.

- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the [Crucible 2.8 Upgrade Guide](#) for further essential information about your upgrade.
- **Known Issues.** Please check the [important technical advisories](#) on the front page of the Knowledge Base for information about any known issues for this release.

Highlights of this release:

- [Mentions](#)
- [Shares](#)
- [Improved performance for the projects listing](#)
- [Support for Subversion 1.7](#)
- [End of life announcements](#)



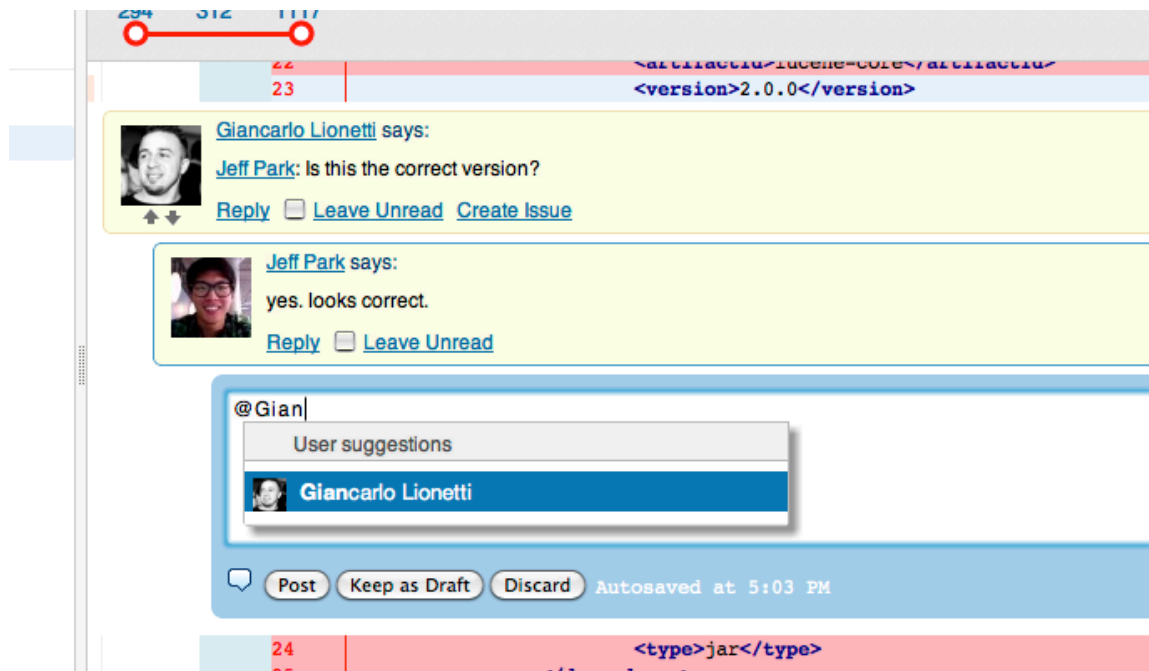
Providing feedback:

Please log your [votes](#) and [issues](#). They help us decide what needs doing, and are much appreciated!



Mentions

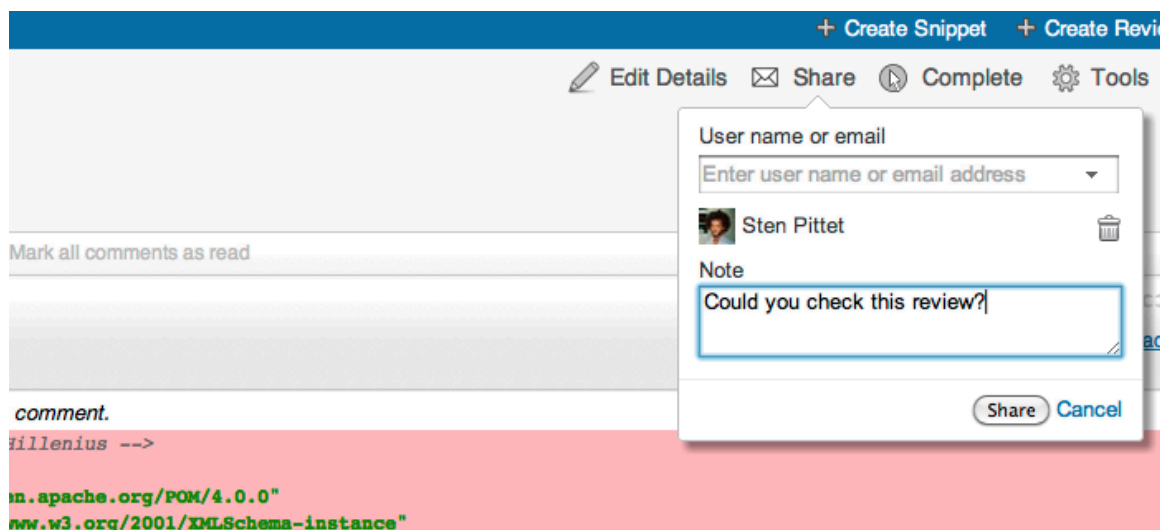
In Crucible 2.8 you can use mentions to notify other users in the changeset discussions, review comments and snippet comments. Simply type @ and the name of the person you would like to notify to create a mention.



2

Shares

You can now share reviews with other users of Crucible as well as external people via their email. Sharing Crucible content has never been easier.



3

Improved performance for the projects listing

We improved the rendering performance of the projects listing in Crucible.

4

Support for Subversion 1.7

Crucible now supports Subversion 1.7.

5

End of life announcements

As [announced earlier](#), support for IBM ClearCase repositories has been removed in Crucible 2.8.



The Crucible 2.8 team

Development

Core team

Geoff Crain
Tom Davies
Brendan Humphreys
Conor MacNeill
Richard Stephens

Team lead

Nick Pellow

Product management

Sten Pittet

Project manager

Anton Mazkovi

Support

Ajay Sridhar
Armen Khachatryan

Daniel Rohan
 Douglas Fabretti
 Felipe Kraemer
 Gurleen Anand
 Renan Battaglin
 Rene Verschoor
 Malik Mangier

Others

Product marketing

Giancarlo Lionetti
 Jeff Park

Quality assurance

George Filippoff

Technical writing

Paul Watson

Operations

James Fleming

Crucible 2.8 Changelog

This page contains information about the Crucible 2.8 minor releases. FishEye license holders should also check the [FishEye 2.8 Changelog](#).

See the [Crucible 2.8 Release Notes](#) for details of what's new in 2.8.0.



Please read the [Crucible 2.8 Upgrade Guide](#) before upgrading to any of the minor releases below.

On this page:

- [From 2.8.1 to 2.8.2](#)
- [From 2.8.0 to 2.8.1](#)

JIRA Issues (2 issues)

- [Crucible 2.8](#)

JIRA Issues (16 issues)

From 2.8.1 to 2.8.2

5 October 2012

This is a FishEye bug fix release.







From 2.8.0 to 2.8.1

29 August 2012

This is a bug fix release. The complete list of issues is below.

JIRA Issues (2 issues)







Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
------	-----	---------	----------	----------	----------	--------	------------	---------	---------











	CRUC-6203	Notifications/Shares don't work if Oracle is being used.	Geoff Crain [Atlassian]	Renan Battaglian [Atlassian]		 Closed	Fixed	Aug 27, 2012	Mar 12, 2013
	CRUC-6200	Missing Attachment Upload Item's cause NullPointerException when viewing a Review which has inline comments on the missing attachment	Geoff Crain [Atlassian]	Nick Pellow [Atlassian]		 Closed	Fixed	Aug 26, 2012	Aug 29, 2012

Crucible 2.8**15 August 2012**







The complete list of issues is below.











JIRA Issues (16 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-6156	Test upgrade from 2.7 to 2.8 on all Supported DBs	Unassigned	Nick Pellow [Atlassian]		 Closed	Fixed	Jun 20, 2012	Jul 01, 2012
	CRUC-	Allow	Unassigned	Felipe		 Closed	Fixed	Apr 04,	Aug 13,

	6104	sharing reviews using emails or account	igned	Kraemer [Atlassian]		ed		2012	2012
	CRUC-5146	show last indexed time of a repository	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	 Closed	Fixed	Dec 12, 2010	May 09, 2012
	CRUC-6188	Crucible privilege escalation vulnerability	Vitaly Osipov [Atlassian]	Paul Watson [Atlassian]	↑	 Closed	Fixed	Aug 09, 2012	Aug 21, 2012
	CRUC-6168	A null review participant causes review indexing to fail partway through the set of reviews	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↓	 Closed	Fixed	Jul 10, 2012	Sep 26, 2012
	CRUC-6166	Setup Func Tests are failing under JDK 1.7	Geoff Crain [Atlassian]	Nick Pellow [Atlassian]	↑	 Closed	Fixed	Jul 06, 2012	Jul 09, 2012
	CRUC-6162	Investigate why Crucible	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]	↑	 Closed	Fixed	Jul 02, 2012	May 01, 2013

seems
to
auto-sa
ve
always
exactly
when
you go
to post
a
comme
nt.

	CRUC-6157	Re-ind exing crucible can cause a NullPoi nterExc eption if Loglte m table contain s referen ces to non-exi stant users	Richard Stephe ns [Atlassi an]	Richard Stephe ns [Atlassi an]	↓	 Clos ed	Fixed	Jun 22, 2012	Jul 09, 2012
	CRUC-6151	Fix perform ance issues caused by Lower and Upper DB functio ns	Geoff Crain [Atlassi an]	Renan Battagli n [Atlassi an]	↓	 Clos ed	Fixed	Jun 17, 2012	Jul 02, 2012
	CRUC-6149	Update support ed platfor ms now that	Paul Watson [Atlassi an]	Melani e Wright [Atlassi an]	↓	 Clos ed	Fixed	Jun 14, 2012	Aug 13, 2012

		Clearcase is no longer supported							
	CRUC-6132	NPE on manual reminder email if due date is null	Roman Tekhov [Atlassian]	Geoff Crain [Atlassian]	↓	 Closed	Fixed	May 22, 2012	Jul 16, 2012
	CRUC-6131	Invalid email notification and inconsistent language	Geoff Crain [Atlassian]	Sean Curtis [Atlassian]	↑	 Closed	Fixed	May 17, 2012	Jul 29, 2012
	CRUC-6130	Missing parent on one side of a merge fails indexing process	Brendan Humphreys [Atlassian]	Renan Battaglin [Atlassian]	↓	 Closed	Fixed	May 09, 2012	Jul 05, 2012
	CRUC-5987	LDAP/Crowd Users auto-synced and added as crucible users, exceeding licence limit	Geoff Crain [Atlassian]	Matthew Watson [Atlassian]	↑	 Closed	Fixed	Nov 28, 2011	Jun 18, 2012
	CRUC-5845	Whitespace at	Tom Davies	Rene Versch	↑	 Closed	Fixed	Jul 26, 2011	Jun 18, 2012

		the end of a pasted patch are strippe d off	[Atlassi an]	oor [Atlassi an]					
	CRUC- 3124	Permis sion schem e page fails when the userna me is rename d	Conor MacNei ll [Atlassi an]	Ming Giet Chong [Atlassi an]		 Clos ed	Fixed	Feb 22, 2010	Jun 18, 2012

Crucible 2.8 Upgrade Guide

Below are some important notes on upgrading to **Crucible 2.8**. For details of the new features and improvements in this release, please read the [Crucible 2.8 Release Notes](#).

On this page:

- [Upgrade Notes](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the Crucible Upgrade](#)

Related pages:

- [Crucible 2.8 Release Notes](#)

Upgrade Notes

Crucible 2.8

• Crucible 2.8

A minor schema change has been made to the Crucible SQL Schema in 2.8. If you need to rollback to an earlier version, you will need to restore from a backup to do so. Be sure to take a backup before you upgrade.

Please also be sure to read the [End of Life Announcements for FishEye/Crucible 2.8](#) .

Upgrade Procedure



Before you begin

- Test your upgrades in your test environment before rolling into production.
- Back up your **entire** Crucible instance (see [Backing up and restoring Crucible data](#)), i.e.
 - If you are backing up your Crucible instance via the Admin interface, tick all of the '**Include**'

checkboxes (e.g. plugins, templates, uploads, SQL database, etc).

- If you are backing up your Crucible instance using the command-line interface, do not use any [exclusion options](#).

If you are already running a version of Crucible, please refer to the [Crucible upgrade guide](#).

Checking for Known Issues and Troubleshooting the Crucible Upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues.** Sometimes Atlassian finds out about a problem with the latest version of Crucible after the software is released. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the [Crucible 2.8 Known Issues](#) in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the Crucible Knowledge Base.
- If you encounter a problem during the upgrade and cannot solve it, please create a [support ticket](#) and one of our support engineers will help you.

Crucible 2.7 Release Notes

7 September 2011

With great pleasure, Atlassian presents **Crucible 2.7** featuring new JIRA Transitions and Review Reminders.

Highlights of this Release:

- JIRA Transitions in Crucible
- Review Reminders
- Small Improvements



- Thank you for all your issues and votes. [Keep logging issues](#) to help us keep improving!
- Read the [release notices](#) for important information about this release.

Highlights of Crucible 2.7




JIRA Transitions in Crucible


For Crucible reviews that are linked to JIRA issues, you can now transition these JIRA issues through workflow from within Crucible.

After **closing a review**, Crucible will now display any available transitions for the linked JIRA issue.

CR-FE-6163 Closed

Linked issue

Issue:  **FECRU-1401** – Add a review action in the UI to send manual reminder...

Status:  To be reviewed

Transition issue:

Log work:

You're done!

You have no outstanding reviews to attend to right now.

[Dashboard](#) [Close](#)

[More...](#)

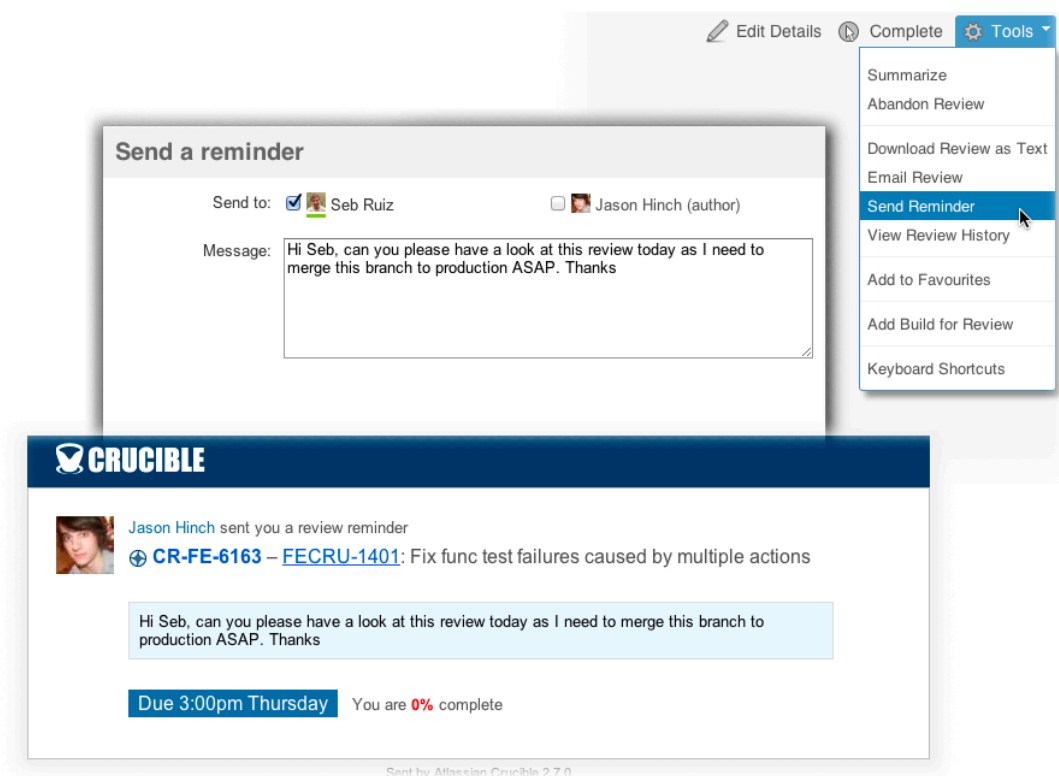
2

Review Reminders

Crucible will now automatically send reviewers a reminder email one working day before the deadline.

Review authors and moderators can also do the following:

- Send manual reminders to reviewers whose work is still pending.
- Configure preset reminders for reviews that have a deadline.



More...

3

Small Improvements

Crucible 2.7 also comes bundled with numerous other bug fixes and improvements, including:

- Syntax highlighting for Java 7, Groovy, Velocity and Scala
- Crucible can now run on Java 7
- Improved user interface for the administration screens
- Improved plugin points for developers

Visit our [issue tracker](#) to see the full list of improvements and bug fixes in Crucible and FishEye for this release.

Release Notices

- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the [Crucible 2.7 Upgrade Guide](#) for further essential information about your upgrade.
- **Known Issues.** Please check the [important technical advisories](#) on the front page of the Knowledge Base for information about any known issues for this release.

Crucible 2.7 Changelog

This page contains information about the Crucible 2.7 minor releases. FishEye license holders should also check the [FishEye 2.7 Changelog](#).

See the [Crucible 2.7 Release Notes](#) for details of what's new in 2.7.0.



Please read the [Crucible 2.7 Upgrade Guide](#) before upgrading to any of the minor releases below.

On this page:

- [From 2.7.14 to 2.7.15](#)

JIRA Issues (7 issues)

- [From 2.7.13 to 2.7.14](#)

JIRA Issues (6 issues)

- [From 2.7.12 to 2.7.13](#)

JIRA Issues (39 issues)

- [From 2.7.11 to 2.7.12](#)

JIRA Issues (7 issues)

- [From 2.7.10 to 2.7.11](#)

JIRA Issues (25 issues)

- [From 2.7.9 to 2.7.10](#)

JIRA Issues (3 issues)

- [From 2.7.8 to 2.7.9](#)

JIRA Issues (23 issues)

- [From 2.7.7 to 2.7.8](#)

JIRA Issues (12 issues)

- [From 2.7.6 to 2.7.7](#)

JIRA Issues (17 issues)

- [From 2.7.5 to 2.7.6](#)

JIRA Issues (19 issues)

- [From 2.7.4 to 2.7.5](#)

JIRA Issues (19 issues)

- [From 2.7.3 to 2.7.4](#)

JIRA Issues (13 issues)

- [From 2.7.2 to 2.7.3](#)

JIRA Issues (2 issues)

- [From 2.7.1 to 2.7.2](#)

JIRA Issues (12 issues)

- [From 2.7.0 to 2.7.1](#)

JIRA Issues (6 issues)







From 2.7.14 to 2.7.15









10 July 2012

This is a bug fix release. The complete list of issues is below.

JIRA Issues (7 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-4087	IllegalArgumentExceptio: No local entity with key	Geoff Crain [Atlassian]	Nick Pellow [Atlassian]	↓	Closed	Fixed	May 07, 2012	Jul 09, 2012

		'REPO NAME' and type 'class com.atl assian. applink s.applic ation.fe cru.Fis hEyeR eposito ryEntity TypeIm pl' exists							
	FE-422 2	FishEy e privileg e escalati on vulnera bility	Vitaly Osipov [Atlassi an]	Paul Watson [Atlassi an]		 Clos ed	Fixed	Aug 09, 2012	Aug 21, 2012
	FE-417 8	Getting "No entity exists with key <REPO NAME> of type com.atl assian. applink s.api.a pplicati on.fecr u.FishE yeRepo sitoryE ntityTy pe" editing clicking applink	Unassi gned	David Corley		 Clos ed	Fixed	Jul 05, 2012	Jul 08, 2012

	FE-4156	s for a repository Watch Emails throwing exception in certain circumstances	Unassigned	Nick Pellow [Atlassian]	↑	 Closed	Fixed	Jun 24, 2012	Feb 17, 2013
	CRUC-6188	Crucible privilege escalation vulnerability	Vitaly Osipov [Atlassian]	Paul Watson [Atlassian]	↑	 Closed	Fixed	Aug 09, 2012	Aug 21, 2012
	CRUC-6157	Re-indexing crucible can cause a NullPointerException if LogItem table contains references to non-existent users	Richard Stephens [Atlassian]	Richard Stephens [Atlassian]	↓	 Closed	Fixed	Jun 22, 2012	Jul 09, 2012
	CRUC-6136	java.lang.IllegalArgumentException: No local entity with key	Unassigned	Rene Verschuur [Atlassian]	↓	 Closed	Fixed	May 30, 2012	Jul 05, 2012







'PROJECTNAME'
and
type
'class
com.atlassian.
applinks.application.fishEyeCrucibleProjectEntityTypeImpl'
exists










From 2.7.13 to 2.7.14

12 June 2012

This is a bug fix release. The complete list of issues is below.

JIRA Issues (6 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-4119	Missing change sets cause Hg indexing to fail	Unassigned	Tom Davies [Atlassian]	↓	 Closed	Fixed	May 30, 2012	May 30, 2012
	FE-4111	If Anon Access is OFF, smart commits that interact with JIRA will not work	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]	↓	 Closed	Fixed	May 24, 2012	Aug 01, 2012
	FE-4106	Fisheye 2.7.13 startup	Nick Pellow [Atlassian]	Leo Leung	↑	 Closed	Fixed	May 24, 2012	Jun 08, 2012













		error when FISHE YE_IN ST have spaces							
	FE-410 5	100+ request s of type "update JiraTim eAjax!d efault" timing out when modifyi ng Time Spent	Geoff Crain [Atlassi an]	Daniel Rohan [Atlassi an]		 Clos ed	Fixed	May 23, 2012	Jun 08, 2012
	FE-410 3	NPE when indexin g git repo with missing ancest or	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]		 Clos ed	Fixed	May 22, 2012	Jun 08, 2012
	CRUC- 6107	Error synchr onizing users: null	Tom Davies [Atlassi an]	Sheppe Pharis		 Clos ed	Fixed	Apr 05, 2012	Jun 13, 2012









From 2.7.12 to 2.7.13**21 May 2012**









This is a bug fix release. The complete list of issues is below.









JIRA Issues (39 issues)











Type	Key	Summ ary	Assign ee	Report er	Priorit y	Status	Resolu tion	Create d	Update d
	FE-396 1	Emulat e pre-2.7	Brenda n Humph	Pierre- Etienne Poirot		 Clos ed	Fixed	Feb 16, 2012	Aug 20, 2012







		behavi our: when an user is created by the user synchr onisation, restore any deleted user with the same userna me	reys [Atlassi an]	[Atlassi an]					
	CRUC-6092	Email generat ed via "Tools -> Email Review " has incorre ct comme nt URLs	Brenda n Humph reys [Atlassi an]	Sylvia Yee		 Res olved	Fixed	Mar 16, 2012	May 18, 2012
	FE-4019	web-se rver/ma x-threa ds increas es from 20 to 150	Nick Pellow [Atlassi an]	Nick Pellow [Atlassi an]		 Clos ed	Fixed	Mar 13, 2012	Nov 18, 2012
	FE-4018	EyeQL Search Results not displayi ng author fields	Conor MacNei ll [Atlassi an]	Conor MacNei ll [Atlassi an]		 Clos ed	Fixed	Mar 27, 2012	Apr 09, 2012
	FE-401	Add	Brenda	Issa		 Clos	Fixed	Mar 26,	Apr 05,











	7	authenticated user in http response headers for logging ability in reverse proxy	n Humphreys [Atlassian]			ed		2012	2012
	FE-3989	Allow disabling of precise content Hash to csid mapping	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↓	 Closed	Fixed	Mar 08, 2012	May 01, 2012
	FE-3922	Add custom syntax highlighting for shell scripts	Brendan Humphreys [Atlassian]	Eddie Webb	↓	 Closed	Fixed	Jan 27, 2012	Nov 07, 2012
	FE-3495	com.atlassian.crowd.exception.OperationFailedException if SSO is enabled with JIRA user management	Brendan Humphreys [Atlassian]	Gurleen Anand [Atlassian]	↑	 Closed	Fixed	Jun 13, 2011	Jul 31, 2012
	CRUC-6075	Link to comments from	Richard Stephen	Frederik Dinkelder	↓	 Closed	Fixed	Feb 26, 2012	Apr 09, 2012









		dashbo ard	ns [Atlassi an]						
	CRUC-6017	Allow plugins to detect when a draft comment is published	Richard Stephens [Atlassian]	Olli Nevalainen [Atlassian]	↑	 Closed	Fixed	Jan 04, 2012	Apr 17, 2012
	CRUC-6009	Allow plugins to detect changes to reviewers or moderator	Brendan Humphreys [Atlassian]	Olli Nevalainen [Atlassian]	↑	 Closed	Fixed	Dec 21, 2011	Apr 02, 2012
	FE-4084	hidden text behind the left navigation panel when using Firefox 12	Unassigned	Leonardo De Macedo [Atlassian]	↓	 Closed	Fixed	May 01, 2012	Jun 27, 2012
	FE-4070	Fisheye does not allow username returned by AuthToken to be different from username	Richard Stephens [Atlassian]	Richard Stephens [Atlassian]	↓	 Closed	Fixed	Apr 19, 2012	Apr 30, 2012











		entered by user							
	FE-4060	CC Indexing can fetch version 0 and index it even if before the start date.	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↓	 Closed	Fixed	Apr 17, 2012	Apr 18, 2012
	FE-4044	Lack of usernames element in security config can stop AJPAuth working	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↑	 Closed	Fixed	Apr 11, 2012	Apr 15, 2012
	FE-4043	Handle NPE caused by change set without a position value in Commit Graph	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↓	 Closed	Fixed	Apr 10, 2012	Apr 15, 2012
	FE-4036	P4 GetLatestRevision will fail for paths with no revisions - leads	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↓	 Closed	Fixed	Apr 05, 2012	Apr 10, 2012

		to excessi ve logging .							
	FE-403 4	Copy from a file which existed before the start-re vision is ignored .	Conor MacNei ll [Atlassi an]	Conor MacNei ll [Atlassi an]	↑	 Clos ed	Fixed	Apr 03, 2012	Apr 10, 2012
	FE-402 9	Store Perforc e Branch Details	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]	↓	 Clos ed	Fixed	Apr 02, 2012	Apr 25, 2012
	FE-402 5	Modifie d port not reflecte d in startup messa ge of uninitial ized FishEy e	Brenda n Humph reys [Atlassi an]	Rene Versch oor [Atlassi an]	↓	 Clos ed	Fixed	Mar 31, 2012	Apr 04, 2012
	FE-402 4	Clearca se FileHist ory can throw an excepti on if no HEAD revision s	Conor MacNei ll [Atlassi an]	Conor MacNei ll [Atlassi an]	↓	 Clos ed	Fixed	Mar 29, 2012	Apr 10, 2012
	FE-402 0	Deleted git branch	Conor MacNei ll	Matthe w Watson	↓	 Clos ed	Fixed	Mar 27, 2012	Apr 18, 2012

		es show in branch selecto r	[Atlassi an]	[Atlassi an]						
	FE-401 2	Avatars in user dropdo wn are too big	Richard Stephe ns [Atlassi an]	Seb Ruiz [Atlassi an]	↑	 Clos ed	Fixed	Mar 22, 2012	Apr 05, 2012	
	FE-400 3	JIRA Applica tion Passw ord Field Not Refres hing with Apply Button	Brenda n Humph reys [Atlassi an]	Daniel Rohan [Atlassi an]	↑	 Clos ed	Fixed	Mar 15, 2012	Apr 04, 2012	
	FE-398 6	An svn copy from an uninde xed part of a repo to an indexe d part causes an error: com.ce nqua.fi sheye.r ep.DbE xceptio n: Attempt to load isDelet ed from non existent revid = -1	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]	↓	 Clos ed	Fixed	Mar 06, 2012	Jul 13, 2012	

	FE-3985	Display the SSID above the license texture	Richard Stephens [Atlassian]	Stefan Sorin Nicolin	↓	 Closed	Fixed	Mar 06, 2012	Mar 27, 2012
	FE-3984	JIRA user management fails if there are no groups selected to sync	Brendan Humphreys [Atlassian]	Ajay Sridhar [Atlassian]	↑	 Closed	Fixed	Mar 06, 2012	Feb 19, 2013
	FE-3979	Missing label for "Allow remote API calls" option in FishEye UI	Richard Stephens [Atlassian]	Sarah Maddox [Atlassian]	↑	 Closed	Fixed	Feb 27, 2012	Apr 23, 2012
	FE-3899	fisheye doesnt handle p4 branch specs in ways that p4 supports	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	 Closed	Fixed	Jan 18, 2012	May 01, 2012
	FE-3870	Removed license gets replaced by "Disabled", prevent	Conor MacNeill [Atlassian]	Ajay Sridhar [Atlassian]	↓	 Closed	Fixed	Dec 29, 2011	Sep 07, 2012

		ing Update							
	FE-373 2	Switchi ng from tag to trunk results in a 500 Server Error	Conor MacNei ll [Atlassi an]	Rene Versch oor [Atlassi an]	↓	 Clos ed	Fixed	Sep 21, 2011	Apr 18, 2012
	CRUC- 6125	after replyin g to a comme nt, the form to post another reply has "disca rd" and "keep as draft" disable d	Tom Davies [Atlassi an]	Geoff Crain [Atlassi an]	↓	 Clos ed	Fixed	May 03, 2012	May 08, 2012
	CRUC- 6116	Defect checkb ox is enable d when I edit a comme nt	Tom Davies [Atlassi an]	Michael Heems kerk [Atlassi an]	↓	 Clos ed	Fixed	Apr 25, 2012	Apr 30, 2012
	CRUC- 6101	webite ms that throw a runtime excepti on will cause HTTP 500 and render	Nick Pellow [Atlassi an]	Nick Pellow [Atlassi an]	↓	 Clos ed	Fixed	Apr 02, 2012	Apr 10, 2012







		crucible unusable							
	CRUC-6086	Total LoC column should not appear in Suggest Reviewers popup for DVCS repos.	Richard Stephens [Atlassian]	Don Willis [Atlassian]	↑	 Closed	Fixed	Mar 08, 2012	Mar 30, 2012
	CRUC-6052	Crucible sometimes redirects to my host name instead of the configured URL	Tom Davies [Atlassian]	Borek Bernard	↑	 Closed	Fixed	Feb 13, 2012	Apr 10, 2012
	CRUC-5928	Cannot create Anchor Patch for GIT	Richard Stephens [Atlassian]	Piotr Maruszak	↓	 Closed	Fixed	Sep 29, 2011	May 21, 2012
	CRUC-5779	Abandoned reviews cannot be searched for after a Crucible reindex	Conor MacNeill [Atlassian]	Gurleen Anand [Atlassian]	↑	 Closed	Fixed	May 29, 2011	Apr 22, 2012
	CRUC-	Improv	Tom	Andrew	↑	 Closed	Fixed	Sep 12,	Apr 23,









4188	e logging of databa se errors - java.sql .Batch Update Excepti on: Batch entry 0 ... was aborted . Call getNext Excepti on to see the cause.	Davies [Atlassi an]	Myers [Atlassi an]	ed	2010	2012
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From 2.7.11 to 2.7.12**16 April 2012**

This is a bug fix release. The complete list of issues is below.

JIRA Issues (7 issues)

Type	Key	Summ ary	Assign ee	Report er	Priorit y	Status	Resolu tion	Create d	Update d
	FE-4016	FishEye XML Vulnerability	Vitaly Osipov [Atlassi an]	Paul Watson [Atlassi an]	↑	 Closed	Fixed	Mar 26, 2012	May 17, 2012
	FE-4001	Perforce branches are unnecessarily, repeatedly, scanned	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]	↓	 Closed	Fixed	Mar 15, 2012	Apr 02, 2012
	FE-4000	Corruption of CrossRepository	Conor MacNeill [Atlassi an]	Conor MacNeill [Atlassi an]	↑	 Closed	Fixed	Mar 14, 2012	Mar 21, 2012









		Index Propert ies							
	FE-399 6	Clear to ol since date format need to be English	Conor MacNei ll [Atlassi an]	Conor MacNei ll [Atlassi an]	↓	 Clos ed	Fixed	Mar 12, 2012	Mar 21, 2012
	FE-397 6	ClassC astExc eption on startup on window s	Richard Stephe ns [Atlassi an]	Wanne s Geysen	↓	 Clos ed	Fixed	Feb 27, 2012	Apr 11, 2012
	FE-397 0	Commit Calend ar incorre ct for project s includin g several paths in the same reposit ory	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]	↓	 Clos ed	Fixed	Feb 22, 2012	Feb 28, 2012
	FE-396 9	The 'Param eters' on the 'Databa se Configu ration' page are ignored .	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]	↑	 Clos ed	Fixed	Feb 22, 2012	Oct 03, 2012









From 2.7.10 to 2.7.11








27 February 2012










This is a bug fix release. The complete list of issues is below.
















JIRA Issues (25 issues)










Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3941	Add a limit for the number of paths to index to a change set	Matthew Watson [Atlassian]	Matthew Watson [Atlassian]	↑	 Closed	Fixed	Feb 09, 2012	Feb 26, 2012
	FE-3937	Add properties to stop branch and tag point ancestry detection for SVN	Matthew Watson [Atlassian]	Matthew Watson [Atlassian]	⛔	 Closed	Fixed	Feb 07, 2012	Feb 26, 2012
	FE-3931	Null Pointer Exception com.cenqua.fisheye.rep.impl.CommonFileRevision.setAuthor(CommonFileRevision.java:149)	Brendan Humphreys [Atlassian]	Cardinal Armand du Piessis de Richelieu, First Minister of Louis XIII	↓	 Closed	Fixed	Feb 03, 2012	Jan 17, 2013
	FE-3958	Content Indexin	Matthew Watson	Matthew Watson	↓	 Closed	Fixed	Feb 15, 2012	Feb 21, 2012





		g: Filter the paths to index before processing the list twice.	[Atlassian]	[Atlassian]					
	FE-3957	Lucene re-index is only triggered for cross-repo until after first commit	Matthew Watson [Atlassian]	Matthew Watson [Atlassian]	↓	 Closed	Fixed	Feb 15, 2012	Feb 16, 2012
	FE-3956	Content Indexing: Add an option to only index trunk, not root and trunk	Matthew Watson [Atlassian]	Matthew Watson [Atlassian]	↓	 Closed	Fixed	Feb 15, 2012	Feb 26, 2012
	FE-3955	ReIndex: Only delete all the content docs if there are >0 docs in the index	Matthew Watson [Atlassian]	Matthew Watson [Atlassian]	↓	 Closed	Fixed	Feb 15, 2012	Feb 19, 2012
	CRUC-6051	Improve performance of	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]	↓	 Closed	Fixed	Feb 12, 2012	Feb 23, 2012

		the Review Blockers Report plugin							
	FE-3953	Per user LoC figures are meaningless when the 'All' button is selected	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↓	 Closed	Fixed	Feb 14, 2012	Feb 15, 2012
	FE-3952	Breadcrumb links on the Users tab are incorrect when a branch is selected	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↓	 Closed	Fixed	Feb 14, 2012	Feb 14, 2012
	FE-3939	PHP syntax highlighting incorrectly matches keywords at the end of function names	Brendan Humphreys [Atlassian]	Chris Butler	↓	 Closed	Fixed	Feb 08, 2012	Feb 08, 2012
	FE-3934	Changesets	Conor MacNei	Conor MacNei	↑	 Closed	Fixed	Feb 06, 2012	Feb 26, 2012

		with large number of revisions can exhaust heap	 [Atlassian]	 [Atlassian]					
	FE-3932	FishEye appears hung on upgrade, till upgrade finishes.	Conor MacNeill [Atlassian]	Matthew Watson [Atlassian]		 Closed	Fixed	Feb 06, 2012	Mar 28, 2013
	FE-3921	Fisheye treats files as binary if they used to have a svn:mime-type property, even after the property has been removed	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Jan 26, 2012	Feb 23, 2012
	FE-3908	Investigate libdir containing random JS files and directories. and	Unassigned	Nick Pellow [Atlassian]		 Closed	Fixed	Jan 22, 2012	Feb 07, 2012

		scmutils.jar is missing.							
	FE-3905	Upgrade from 2.5->2.7 fires events for all commits and replays all smart commits	Matthew Watson [Atlassian]	Matthew Watson [Atlassian]		 Closed	Fixed	Jan 20, 2012	Jan 23, 2012
	FE-3885	Smart Commits: Using the #time command with a complex time format (i.e. 2d 4h) only saves the 2d part	Nick Pellow [Atlassian]	Felipe Cuzzo [Atlassian]		 Closed	Fixed	Jan 12, 2012	May 30, 2013
	FE-3859	Unable to add users when using IE8	Sebastian Ruiz [Atlassian]	Felipe Kraemer [Atlassian]		 Closed	Fixed	Dec 12, 2011	Nov 07, 2012
	FE-3851	Old broken Support Zip link still present	Brendan Humphreys [Atlassian]	Rene Verschuur [Atlassian]		 Closed	Fixed	Dec 02, 2011	Feb 15, 2012
	FE-360	Issue	Brenda	Nick		 Closed	Fixed	Jul 27,	Feb 22,



	8	keys, wrapped in square brackets [JRA-9] are not linked correctly in quick search results	n Humphreys [Atlassian]	Pellow [Atlassian]		ed		2011	2012
	CRUC-6060	Work Day Plugin throwing an exception will cause the add comment transaction to be rolled back	Unassigned	Michael Heems kerk [Atlassian]		 Closed	Fixed	Feb 15, 2012	Feb 16, 2012
	CRUC-6058	Paged Search is not being injected with the request in some cases	Brendan Humphreys [Atlassian]	Brendan Humphreys [Atlassian]		 Closed	Fixed	Feb 14, 2012	Mar 07, 2012
	CRUC-6050	freemarker templates for email notifications do not suffice	Brendan Humphreys [Atlassian]	Brendan Humphreys [Atlassian]		 Closed	Fixed	Feb 12, 2012	Feb 15, 2012







	CRUC-6029	ntly null-ch eck								
		Reduce number of database calls when listing projects with Application Links in admin screen.	Tom Davies [Atlassian]	Nick Pellow [Atlassian]	↓	 Closed	Fixed	Jan 22, 2012	Feb 14, 2012	
	CRUC-5955	Improve performance of "Application Links" web item on project admin list page	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↓	 Closed	Fixed	Nov 02, 2011	Feb 08, 2012	

From 2.7.9 to 2.7.10**20 January 2012**

This is a bug fix release. The complete list of issues is below.

JIRA Issues (3 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3903	Unable to see FishEye activity stream in JIRA Activity Stream gadget	Unassigned	Matthew Watson [Atlassian]	↓	 Closed	Fixed	Jan 19, 2012	Jan 19, 2012

		on dashboard when have Repository with no description							
	FE-3902	Issue Transition controls don't appear when closing a review	Unassigned	None		 Closed	Fixed	Jan 19, 2012	Jan 19, 2012
	FE-3900	fecru-review-is sue-transition-plugin fails under fisheye 2.7.9 due to incompatible class change error	Unassigned	Nick Pellow [Atlassian]		 Closed	Fixed	Jan 18, 2012	Jan 19, 2012







From 2.7.8 to 2.7.9**19 January 2012**









This is a bug fix release. The complete list of issues is below.

JIRA Issues (23 issues)











Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-6027	New parameter to GET /rest-se	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]		 Closed	Fixed	Jan 15, 2012	Jan 17, 2012









vice/projects-v1 to optionally load all user data. If false, Project Data.getAllowedReviewers will return an empty list






	CRUC-5999	Add REST endpoint for getting the list of groups	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↓	 Closed	Fixed	Dec 06, 2011	Dec 11, 2011
	FE-3896	FishEye wrongly removes admin privileges for a Crowd group when Crowd is not up when FishEye is starting up	Nick Pellow [Atlassian]	Alex Wei [Atlassian]	↑	 Closed	Fixed	Jan 05, 2012	Jan 18, 2012
	FE-3891	Webwork 2 vulnerable	Vitaly Osipov [Atlassian]	Paul Watson [Atlassian]	↑	 Closed	Fixed	Jan 16, 2012	Jan 31, 2012

		bility	an]	an]					
	FE-3888	FishEye does not correctly handle moved tags	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↑	 Closed	Fixed	Jan 15, 2012	Jan 17, 2012
	FE-3884	Default UserManager.getUserInGroup incorrectly acquires a write lock instead of a read lock	Brendan Humphreys [Atlassian]	Brendan Humphreys [Atlassian]	↑	 Closed	Fixed	Jan 12, 2012	Jan 12, 2012
	FE-3880	P4 client doesn't handle job names with a leading -	Brendan Humphreys [Atlassian]	Brendan Humphreys [Atlassian]	↑	 Closed	Fixed	Jan 08, 2012	Jan 09, 2012
	FE-3878	When processing perforce file revisions, only branch specs that have been added or modified	Anna Buttflied [Atlassian]	Anna Buttflied [Atlassian]	↓	 Closed	Fixed	Jan 08, 2012	Jan 09, 2012

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	FE-3875	SVN property changes with content lines containing certain strings break diff parsing	Anna Buttfiel d [Atlassian]	Anna Buttfiel d [Atlassian]	↓	 Closed	Fixed	Jan 03, 2012	Jan 17, 2012
	FE-3862	JS errors in ie8	Anna Buttfiel d [Atlassian]	Anna Buttfiel d [Atlassian]	↑	 Closed	Fixed	Dec 13, 2011	Jan 17, 2012
	FE-3861	lock mismatch in Lucene Connection	Brenda n Humph reys [Atlassian]	Brenda n Humph reys [Atlassian]	↑	 Closed	Fixed	Dec 12, 2011	Dec 12, 2011
	FE-3817	Clicking on repository in Fisheye Administration generates error dialog in IE8	Anna Buttfiel d [Atlassian]	Felipe Kraem er [Atlassian]	↓	 Closed	Fixed	Nov 04, 2011	Jan 17, 2012
	FE-3790	Trying to look at the source	Brenda n Humph reys	Rene Versch	↓	 Closed	Fixed	Oct 20, 2011	Dec 22, 2011

		of an empty file results in java.lang.ArrayIndexOutOfBoundsException - -1	[Atlassian]	oor [Atlassian]					
	CRUC-6028	Internal avatar on change set comment is broken	Anna Buttfiel d [Atlassian]	Brian McKenna [Atlassian]	↓	 Closed	Fixed	Jan 04, 2012	Jan 18, 2012
	CRUC-6022	getReviewsByIds performs N queries	Brenda n Humphreys [Atlassian]	Brenda n Humphreys [Atlassian]	↑	 Closed	Fixed	Jan 09, 2012	Jan 11, 2012
	CRUC-6013	If during review creation the content of a file revision can't be uploaded (via FishEye), that file is regarded as having no content	Geoff Crain [Atlassian]	Anna Buttfiel d [Atlassian]	↓	 Closed	Fixed	Dec 27, 2011	Aug 27, 2012
	CRUC-6010	Crucible search doesn't	Anna Buttfiel	Anna Buttfiel	↓	 Closed	Fixed	Dec 22, 2011	Jan 09, 2012

		deal properly with author usernames containing punctuation	d [Atlassian]	d [Atlassian]					
	CRUC-6008	Stopped repositories cause NPEs in crucible reviews	Unassigned	Anna Buttfiel d [Atlassian]	↑	 Closed	Fixed	Dec 21, 2011	Feb 09, 2012
	CRUC-6003	Timelines only work with a small set of timezones	Anna Buttfiel d [Atlassian]	Eric Dalgliesh [Atlassian] Bugmaster	↑	 Closed	Fixed	Dec 14, 2011	Jan 09, 2012
	CRUC-5996	Review creator is unavailable from within Review Create dEvent handler	Nick Pellow [Atlassian]	Adrian Hempel [Atlassian]	↑	 Closed	Fixed	Dec 05, 2011	Dec 13, 2011
	CRUC-5995	In some places pre-2.0 review comments always show the {preserved	Brendan Humphreys [Atlassian]	Gurleen Anand [Atlassian]	↓	 Closed	Fixed	Dec 05, 2011	Jan 02, 2012











	CRUC-5981	ve-old} tags							
		Deleting a review doesn't delete associated rows from cru_fei_index_msg	Brendan Humphreys [Atlassian]	Tom Davies [Atlassian]	↑	Closed	Fixed	Nov 16, 2011	Jan 17, 2012
	CRUC-5860	NullPointerException when trying to open an existing review	Brendan Humphreys [Atlassian]	Rene Verschuur [Atlassian]	↓	Closed	Fixed	Aug 10, 2011	Dec 15, 2011











From 2.7.7 to 2.7.8**30 November 2011**

This is a bug fix release. The complete list of issues is below.

JIRA Issues (12 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5984	UI improvements to the Edit classification admin screen	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↓	Closed	Fixed	Nov 24, 2011	Nov 29, 2011
	CRUC-5968	Allow files with no extension to be treated	Pierre-Etienne Poirot [Atlassian]	Melanie Wright [Atlassian]	↓	Closed	Fixed	Nov 09, 2011	Nov 29, 2011

		as text rather than binary							
	CRUC-5925	In Git, our separation of files by branch can be confusing	Pierre-Etienne Poirot [Atlassian]	Wesley Walser [Atlassian]	↑	 Closed	Fixed	Sep 28, 2011	Nov 23, 2011
	FE-3846	crowd admin groups get removed on startup	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	 Closed	Fixed	Nov 27, 2011	Nov 29, 2011
	FE-3842	"Internal Server Error" on jira issue hover	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	 Closed	Fixed	Nov 23, 2011	Nov 23, 2011
	FE-3839	autocomplete dropdowns give inconsistent and sometimes wrong results (results missing)	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	 Closed	Fixed	Nov 20, 2011	Nov 21, 2011
	FE-3775	Allowed Review Participants field doesn't	Pierre-Etienne Poirot [Atlassian]	Adam Ahmed [Atlassian]	↓	 Closed	Fixed	Oct 11, 2011	Nov 29, 2011

		work when some users are present							
	FE-3745	Changing Block Size triggers a reindex + restart, while only a restart is needed	Pierre-Etienne Poirot [Atlassian]	Rene Verschuur [Atlassian]	↑	 Closed	Fixed	Sep 26, 2011	Nov 24, 2011
	FE-3040	FishEye Access Logging is not writing the username	Pierre-Etienne Poirot [Atlassian]	Felipe Kraemer [Atlassian]	↓	 Closed	Fixed	Apr 27, 2011	Nov 29, 2011
	FE-2473	Cannot find link for downloading latest and greatest RAW revision of a file	Pierre-Etienne Poirot [Atlassian]	David Hergert [Personal]	↓	 Closed	Fixed	Feb 18, 2010	Nov 29, 2011
	CRUC-5951	admin.js fails in IE8	Pierre-Etienne Poirot [Atlassian]	Renan Battaglin [Atlassian]	↑	 Closed	Fixed	Oct 25, 2011	Nov 07, 2012
	CRUC-5927	Improve behavior	Pierre-Etienne Poirot	Tom Davies [Atlassian]	↑	 Closed	Fixed	Sep 29, 2011	Nov 29, 2011

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From 2.7.6 to 2.7.7










21 November 2011













This is a bug fix release. The complete list of issues is below.










JIRA Issues (17 issues)

Type	Key	Summ ary	Assign ee	Report er	Priorit y	Status	Resolu tion	Create d	Update d
	CRUC-5962	Internal avatars URL are always generated with HTTP urls, even over SSL	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↓	 Closed	Fixed	Nov 06, 2011	Nov 09, 2011
	CRUC-1853	Display preferences menu doesn't disappear when filter menu clicked or menu item is selected	Jonathan Poh [Atlassian]	Seb Ruiz [Atlassian]	↑	 Closed	Fixed	Jul 23, 2009	Nov 16, 2011
	FE-3836	In SVN, if a tag is created and the	Anna Buttfield [Atlassian]	Anna Buttfield [Atlassian]	↓	 Closed	Fixed	Nov 16, 2011	Nov 17, 2011

		identifie d parent change set id is not indexe d by FishEy e the tag won't show up in the branch es and tags dropdo wn or on the commit graph							
	FE-383 3	Perforc e jobids are not indexe d	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]	↑	 Clos ed	Fixed	Nov 15, 2011	Nov 16, 2011
	FE-383 2	Links in RSS feed do not use absolut e URLs	Seb Ruiz [Atlassi an]	Oleg Semyo nov	↓	 Clos ed	Fixed	Nov 15, 2011	Nov 16, 2011
	FE-382 6	Jetty log messa ges are not reporte d anywhe re	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]	↑	 Clos ed	Fixed	Nov 10, 2011	Nov 16, 2011
	FE-382 2	mime type mappin g for file names	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]	↓	 Clos ed	Fixed	Nov 08, 2011	Nov 17, 2011

		rather than suffixes remove s first character of candidate file name before matching with key filename							
	FE-3174	When navigating forward in time in activity stream, items are shown earliest to latest down the page	Michael Studman [Atlassian]	None		 Closed	Fixed	Sep 22, 2010	Jan 31, 2012
	FE-3155	Browse /diff menu inactive s look active and vice-versa	Jonathan Poh [Atlassian]	None		 Closed	Fixed	Dec 12, 2010	Nov 16, 2011
	CRUC-5977	Crucible 'active users' list loaded unnece	Tom Davies [Atlassian]	Tom Davies [Atlassian]		 Closed	Fixed	Nov 14, 2011	Nov 16, 2011

		ssarily, making review creatio n and editing slow							
	CRUC-5972	Side-by-Side Diffs in Crucible are misalig ned. Line number column s are very long	Adam Ahmed [Atlassi an]	Adam Ahmed [Atlassi an]		 Clos ed	Fixed	Nov 10, 2011	Nov 15, 2011
	CRUC-5957	Code review reply comme nts saved as draft, are deleted when any reviewe r comple tes review	Michael Studma n [Atlassi an]	Maggie Reside		 Clos ed	Fixed	Nov 03, 2011	Nov 11, 2011
	CRUC-5932	The side by side diffs displayi ng display 3 columns instead of 2	Adam Ahmed [Atlassi an]	Zed Yap [Atlassi an]		 Clos ed	Fixed	Oct 06, 2011	Nov 17, 2011
	CRUC-	Crucibl	Jonath	Gurlee		 Clos	Fixed	Jul 14,	Nov 16,









	5828	e links to review comments cut off for mail notifications in Microsoft Outlook	an Poh [Atlassian]	n Anand [Atlassian]		ed		2011	2011
	CRUC-5784	Selecting a folder in File browser in FE on IE8 causes content-view tabs to disappear	Jonathan Poh [Atlassian]	Jaie Wilson [Atlassian]		 Closed	Fixed	May 31, 2011	Nov 14, 2011
	CRUC-5751	Double spinner in Branch selector	Jonathan Poh [Atlassian]	Tim Pettersen [Atlassian]		 Closed	Fixed	May 02, 2011	Nov 14, 2011
	CRUC-5326	Add revision popup in review vanishes when not hovered over	Jonathan Poh [Atlassian]	Chris Lam [Atlassian]		 Closed	Fixed	Jan 05, 2011	Nov 16, 2011









From 2.7.5 to 2.7.6**8 November 2011**









This is a bug fix release. The complete list of issues is below.







JIRA Issues (19 issues)









Type	Key	Summ	Assign	Report	Priorit	Status	Resolu	Create	Update
------	-----	------	--------	--------	---------	--------	--------	--------	--------

		ary	ee	er	y		tion	d	d
	FE-3816	Shut down the thread pool once the background upgrade tasks have been completed	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↓	 Closed	Fixed	Nov 03, 2011	Nov 03, 2011
	FE-3791	Change authentication providers to return CommunicationException when appropriate	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↑	 Closed	Fixed	Oct 20, 2011	Nov 01, 2011
	FE-3772	Add option to enable client authentication SSL	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↓	 Closed	Fixed	Oct 09, 2011	Oct 17, 2012
	FE-3611	Improve the way avatars are loaded to avoid unnecessary calls	Anna Buttfeld [Atlassian]	Renan Battaglin [Atlassian]	↓	 Closed	Fixed	Jul 28, 2011	Jan 23, 2013

	CRUC-5952	Syntax highlighting for Scala doesn't recognize symbol literals.	Seb Ruiz [Atlassian]	Leif Wickland	↓	 Closed	Fixed	Oct 26, 2011	Oct 31, 2011
	FE-3823	If the total length of the branch names selected for the commit graph is too long, the spinner never disappears	Unassigned	Tom Davies [Atlassian]	↓	 Closed	Fixed	Nov 09, 2011	Nov 10, 2011
	FE-3812	When synchronizing users with LDAP, do not deactivate users if the error is a communication problem	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↑	 Closed	Fixed	Nov 01, 2011	Nov 01, 2011
	FE-3809	Upgrade of instances using	Anna Buttfeld [Atlassian]	Renan Battaglin [Atlassian]	↑	 Closed	Fixed	Oct 31, 2011	Nov 02, 2011

		Oracle fail when upgrade_75.sql is run							
	FE-3794	Sourcing a Tag from a Tag Can cause FishEye not to display tag contents	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↑	 Closed	Fixed	Oct 24, 2011	Nov 03, 2011
	FE-3787	When synchronizing users with Crowd, do not deactivate users if the error is a communication problem	Pierre-Etienne Poirot [Atlassian]	Adam Ahmed [Atlassian]	↑	 Closed	Fixed	Oct 19, 2011	Aug 20, 2012
	FE-3784	Modified tags fail in the branch selector	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]	↓	 Closed	Fixed	Oct 18, 2011	Nov 02, 2011
	FE-3783	Activity Stream UI sometimes slow in	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]	↑	 Closed	Fixed	Oct 17, 2011	Nov 04, 2011

		git - it makes calls to git remote show.							
	FE-3767	WARN messages 'Repository index does not match the repository configuration' incorrectly logged after upgrading to 2.7	Conor MacNeill [Atlassian]	Michael Heems kerk [Atlassian]	↓	 Closed	Fixed	Oct 05, 2011	Nov 02, 2011
	FE-3645	Old non-https Simple Linker configuration passes upgrade but results in error when trying to open repo	Pierre-Etienne Poirot [Atlassian]	Rene Versch oor [Atlassian]	↑	 Closed	Fixed	Aug 15, 2011	Nov 04, 2011
	FE-3620	Display name not being picked up	Pierre-Etienne Poirot [Atlassian]	Gurleen Anand [Atlassian]	↑	 Closed	Fixed	Aug 03, 2011	Jan 16, 2012

		correctly in some cases with JIRA user management							
	CRUC-5953	Scala syntax highlighter highlights substrings of identifiers as keywords	Seb Ruiz [Atlassian]	Leif Wickland	↓	 Closed	Fixed	Nov 01, 2011	Nov 01, 2011
	CRUC-5947	Some browsers drop params to server and Migration to PostgreSQL fails	Seb Ruiz [Atlassian]	Gurleen Anand [Atlassian]	↑	 Closed	Fixed	Oct 20, 2011	Oct 26, 2011
	CRUC-5923	Unable to add files to review using "Explore Repositories" option	Geoff Crain [Atlassian]	Piotr Stefan Stefaniak [Atlassian]	↑	 Closed	Fixed	Sep 26, 2011	Feb 02, 2012
	CRUC-4888	quotation marks being double escaped in	Pierre-Etienne Poirot [Atlassian]	Tim Pettersen [Atlassian]	↓	 Closed	Fixed	Nov 10, 2010	Nov 08, 2011







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From 2.7.4 to 2.7.5

21 October 2011









This is a bug fix release. The complete list of issues is below.











JIRA Issues (19 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3799	p4 support : Cleanup and Merge the p4 ancestry suppression flag to 2.6/7/default	Conor MacNeill [Atlassian]	Matthew Watson [Atlassian]	↓	 Closed	Fixed	Sep 27, 2011	Jan 23, 2013
	FE-3768	FishEye logs lots of ApplicationPermissionException when synchronising Crowd users that have no permission on FishEye / Crucible	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]	↓	 Closed	Fixed	Oct 06, 2011	Oct 11, 2011
	FE-378	Git	Pierre-	Pierre-	↓	 Closed	Fixed	Oct 19,	Oct 19,

	8	does not report an error when creating a managed repository over an existing one	Etienne Poirot [Atlassian]	Etienne Poirot [Atlassian]		ed		2011	2011
	FE-3777	Fix documentation of the managed repositories' REST API	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↓	 Closed	Fixed	Oct 11, 2011	Oct 12, 2011
	FE-3774	Search results page fails to render for EyeQL queries > 4000 characters on Oracle.	Michael Heems kerk [Atlassian]	Michael Heems kerk [Atlassian]	↑	 Closed	Fixed	Oct 10, 2011	Oct 11, 2011
	FE-3755	SVN: Paths under tag directories are displayed as deleted / empty directories	Michael Heems kerk [Atlassian]	Michael Heems kerk [Atlassian]	↓	 Closed	Fixed	Sep 30, 2011	Oct 11, 2011

		(greyed out)							
	FE-3752	Repository path, includes, excludes and hidden directories should be copied to newly created forks	Tom Davies [Atlassian]	Tim Pettersen [Atlassian]		Closed	Fixed	Sep 29, 2011	Oct 04, 2011
	FE-3751	'Store diffs' setting is not respected for initial imports of SVN repositories	Michael Heems kerk [Atlassian]	Michael Heems kerk [Atlassian]		Closed	Fixed	Sep 28, 2011	Oct 09, 2011
	FE-3737	Cannot customize front page with global anonymous access turned off	Tom Davies [Atlassian]	Gurleen Anand [Atlassian]		Closed	Fixed	Sep 22, 2011	Oct 06, 2011
	FE-3727	Review coverage report screen messed up when	Michael Studman [Atlassian]	Camila Ayres [Atlassian]		Closed	Fixed	Sep 16, 2011	Oct 26, 2011

		using Firefox 6.0.2 and Chrom e 12.0.7							
	FE-372 1	Error when changi ng content of a review	Tom Davies [Atlassi an]	Federic o Silva Armas [Atlassi an]	↑	 Clos ed	Fixed	Sep 15, 2011	Jan 23, 2013
	FE-369 8	Web Hooks payloa d receive d with "applic ation/x ml" as the content type	Anna Buttfiel d [Atlassi an]	Sten Pittet [Atlassi an]	↑	 Clos ed	Fixed	Sep 06, 2011	Oct 24, 2011
	FE-369 2	When pushin g to a Git manag ed repo while another client is cloning, the client which is cloned freezes	Pierre- Etienne Poirot [Atlassi an]	Pierre- Etienne Poirot [Atlassi an]	↑	 Clos ed	Fixed	Sep 06, 2011	Oct 09, 2011
	FE-367 8	Provide a more friendly messa ge to the users	Anna Buttfiel d [Atlassi an]	Zed Yap [Atlassi an]	↓	 Clos ed	Fixed	Sep 05, 2011	Oct 12, 2011

	FE-2625	code metrics error for branches directories	Pierre-Etienne Poirot [Atlassian]	Tracey Lum [Atlassian]	↓	 Closed	Fixed	Jun 03, 2010	Oct 10, 2011
	CRUC-5914	'Allow anon users' permission is broken for all but 'view review' and should be removed.	Tom Davies [Atlassian]	Michael Studman [Atlassian]	↑	 Closed	Fixed	Sep 22, 2011	Oct 11, 2011
	CRUC-5913	Comment permissions don't work for 'all logged in users'	Tom Davies [Atlassian]	Michael Studman [Atlassian]	⊘	 Closed	Fixed	Sep 22, 2011	Oct 06, 2011
	CRUC-5606	Very large text files produce OOME when diffing	Anna Buttfeld [Atlassian]	Tom Davies [Atlassian]	↑	 Closed	Fixed	Feb 07, 2011	May 25, 2012
	CRUC-4435	Same file shows up	Michael Heemster [Atlassian]	Andrew Myers [Atlassian]	↓	 Closed	Fixed	Sep 30, 2010	Oct 10, 2011





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review











From 2.7.3 to 2.7.4









28 September 2011





This is a bug fix release. The complete list of issues is below.

JIRA Issues (13 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3748	NullPointerException while loading user preferences from database, causing login failures	Michael Heems kerk [Atlassian]	Michael Heems kerk [Atlassian]	↑	 Closed	Fixed	Sep 27, 2011	Sep 27, 2011
	FE-3747	If you edit and then save a managed repository in Internet Explorer, the text "fork of null" will appear and the forks view will no longer	Tim Pettersen [Atlassian]	Tim Pettersen [Atlassian]	↑	 Closed	Fixed	Sep 26, 2011	Sep 27, 2011

		be availabl e.							
	FE-374 2	After a user has been deleted and then added again, subseq uent deletio ns fail	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]	↓	 Clos ed	Fixed	Sep 26, 2011	Sep 27, 2011
	FE-374 1	Manual Auth Re-Syn c button doesn't do anythin g	Tom Davies [Atlassi an]	Phil Davies	↓	 Clos ed	Fixed	Sep 23, 2011	Sep 27, 2011
	FE-373 8	Log files not include d in support zip	Matthe w Watson [Atlassi an]	Matthe w Watson [Atlassi an]	↑	 Clos ed	Fixed	Sep 23, 2011	Jan 16, 2012
	FE-373 5	Commit events fired on Git repos when branch es are added/r emove d	Seb Ruiz [Atlassi an]	Matt Ryall [Atlassi an]	↑	 Clos ed	Fixed	Sep 22, 2011	Sep 27, 2011
	FE-373 4	Error upon exceedi ng license limit	Tom Davies [Atlassi an]	Gurlee n Anand [Atlassi an]	↑	 Clos ed	Fixed	Sep 21, 2011	Sep 27, 2011





		with Crowd user management							
	FE-3716	Hg authentication fails with special character in password	Michael Studman [Atlassian]	Gurleen Anand [Atlassian]	↑	 Closed	Fixed	Sep 13, 2011	Jan 16, 2012
	FE-3168	Restricting Fisheye content in Projects Has No Effect	Michael Studman [Atlassian]	None	↑	 Closed	Fixed	Dec 06, 2010	Jan 31, 2013
	CRUC-5920	ConstraintViolationException: Duplicate entry 'xyz' for key 'cru_user_name' after upgrading to 2.7	Michael Heems kerk [Atlassian]	Michael Heems kerk [Atlassian]	↑	 Closed	Fixed	Sep 25, 2011	Sep 28, 2011
	CRUC-5900	Showing only time for each change set (not from today) on Add	Seb Ruiz [Atlassian]	Wojciech Seliga	↓	 Closed	Fixed	Sep 11, 2011	Oct 05, 2011

		Content to Review screen does not make sense							
	CRUC-5891	the crucible change set activity was never updated to the new layout, which means some css is broken	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	 Closed	Fixed	Sep 06, 2011	Sep 20, 2011
	CRUC-5866	Unable to link issue due to no OAuth prompt	Michael Studman [Atlassian]	Conor MacNeill [Atlassian]	↑	 Closed	Fixed	Aug 16, 2011	Sep 22, 2011

From 2.7.2 to 2.7.3**20 September 2011**

This is a bug fix release. The complete list of issues is below.

JIRA Issues (2 issues)







Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3717	Augment the git-http-backend from 1min to 1hour	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↑	 Closed	Fixed	Sep 14, 2011	Sep 19, 2011
	FE-363	Backup	Michael	Renan	↑	 Closed	Fixed	Aug 09,	Jan 16,









5	fails if write.lock file still exists in lucene	Studman [Atlassian]	Battaglin [Atlassian]	ed	2011	2012
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From 2.7.1 to 2.7.2**19 September 2011**



This is a bug fix release. The complete list of issues is below.

JIRA Issues (12 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3616	Change com.cenqua.fisheye.LoggingDailyRollingFileAppender to keep the extension .log	Conor MacNeill [Atlassian]	Felipe Cuzzo [Atlassian]	▼	 Closed	Fixed	Aug 02, 2011	Jan 16, 2012
	CRUC-5896	JIRA title is often too long and wraps	Sebastian Ruiz [Atlassian]	Sebastian Ruiz [Atlassian]	▼	 Closed	Fixed	Sep 07, 2011	Sep 13, 2011
	FE-3718	Eclipse Git integration (egit) fails to clone from managed Git repository	Unassigned	Tim Pettersen [Atlassian]	↑	 Closed	Fixed	Sep 14, 2011	Sep 19, 2011

	FE-371 1	Some Directory links in Quick Search have double encoded URLs	Jason Hinch [Atlassian]	Jason Hinch [Atlassian]	↓	 Closed	Fixed	Sep 12, 2011	Jan 16, 2012
	FE-369 6	Web Hooks should be deleted when deleting a repository	Tom Davies [Atlassian]	Seb Ruiz [Atlassian]	↑	 Closed	Fixed	Sep 06, 2011	Sep 13, 2011
	FE-369 3	Pagination numbers at bottom of Repositories screen overlap with system info footer	Jonathan Poh [Atlassian]	Rene Verschoor [Atlassian]	↓	 Closed	Fixed	Sep 06, 2011	Sep 14, 2011
	FE-364 7	Google collections and Guava both bundled, package exported without version	Conor MacNeill [Atlassian]	Richard Wallace [Atlassian]	↑	 Closed	Fixed	Aug 15, 2011	Sep 14, 2011







	CRUC-5902	change set discussion autosave fails with error dialog when no comment is entered	Tom Davies [Atlassian]	Joe Xie [atlassian]	↓	 Closed	Fixed	Sep 12, 2011	Sep 13, 2011
	CRUC-5888	Closing the Send Reminder dialog via Esc doesn't reset it.	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]	↓	 Closed	Fixed	Sep 06, 2011	Sep 13, 2011
	CRUC-5886	If the current user is a review's author, then switches to a reviewer, they show up in the manual Send Reminder dialog.	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]	↓	 Closed	Fixed	Sep 06, 2011	Sep 13, 2011
	CRUC-5885	Review reminder notes do not render	Michael Studman [Atlassian]	Seb Ruiz [Atlassian]	↑	 Closed	Fixed	Sep 06, 2011	Sep 13, 2011







	CRUC-3298	new lines in email	Unassigned	Eduardo M	↓	 Closed	Fixed	Apr 09, 2010	Oct 11, 2011
		Should be able to mark files as text when the scm reports binary							

From 2.7.0 to 2.7.1**9 September 2011**

This is a bug fix release. The complete list of issues is below.

JIRA Issues (6 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3701	Commit HookModuleDescriptor#enable can fail if Active Objects Configuration for Commit Hooks Plugin is not available yet	Jason Hinch [Atlassian]	Jason Hinch [Atlassian]	↑	 Closed	Fixed	Sep 07, 2011	Sep 11, 2011
	FE-3700	Can't reset user password	Pierre-Etienne Poirot [Atlassian]	Conor MacNeill [Atlassian]	↑	 Closed	Fixed	Sep 07, 2011	Sep 08, 2011
	FE-3695	Deleting a web	Jason Hinch [Atlassian]	Sebastian Ruiz [Atlassian]	↓	 Closed	Fixed	Sep 06, 2011	Sep 08, 2011

		hook dialog has a broken layout	an]	an]					
	FE-3694	Testing a Web Hook doesn't send mock change set displayed	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]	↓	 Closed	Fixed	Sep 06, 2011	Sep 06, 2011
	FE-3018	Unnecessary implicit antglobbing in Query3	Brendan Humphreys [Atlassian]	Brendan Humphreys [Atlassian]	↓	 Closed	Fixed	Apr 11, 2011	Oct 05, 2012
	CRUC-3298	Should be able to mark files as text when the scm reports binary	Unassigned	Eduardo M	↓	 Closed	Fixed	Apr 09, 2010	Oct 11, 2011

Crucible 2.7 Upgrade Guide

Below are some important notes on upgrading to **Crucible 2.7**. For details of the new features and improvements in this release, please read the [Crucible 2.7 Release Notes](#).

On this page:

- [Upgrade Notes](#)
 - [Crucible 2.7](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the Crucible Upgrade](#)

Upgrade Notes

Crucible 2.7

- **Crucible Confluence LightSCM Plugin has Been Removed from Crucible**
Previously, Crucible shipped with a plugin to enable reviews against content in Confluence. Since Confluence 4's new editor will no longer support wiki markup, this plugin has been deprecated. The

Crucible plugin source as well as the source for the Confluence SCM plugin will remain open-source and are available via the Plugin Exchange at the following locations:

Crucible Plugin	Confluence Crucible Plugin
-----------------	----------------------------

- **Crucible 2.7 adds ActiveObjects support**

ActiveObjects allows plugins to store configuration data in the database. Please note, any already scheduled backups will not have plugin data included during backups. Please modify your scheduled backup configuration appropriately to include ActiveObjects backups.

Confluence has a number of free and commercially available review and workflow plugins. We recommend taking a look at these, to implement a smooth review process for Confluence pages.

Upgrade Procedure



Before you begin

- Test your upgrades in your test environment before rolling into production.
- Back up your **entire** Crucible instance (see [Backing up and restoring Crucible data](#)), i.e.
 - If you are backing up your Crucible instance via the Admin interface, tick all of the 'Include' checkboxes (e.g. plugins, templates, uploads, SQL database, etc).
 - If you are backing up your Crucible instance using the command-line interface, do not use any [exclusion options](#).

If you are already running a version of Crucible, please refer to the [Crucible upgrade guide](#).

Checking for Known Issues and Troubleshooting the Crucible Upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues.** Sometimes Atlassian finds out about a problem with the latest version of Crucible after the software is released. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the [Crucible 2.7 Known Issues](#) in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the Crucible Knowledge Base.
- If you encounter a problem during the upgrade and cannot solve it, please create a [support ticket](#) and one of our support engineers will help you.

RELATED TOPICS

[Crucible 2.7 Release Notes](#)

Crucible 2.6 Release Notes

6 June 2011

With great pleasure, Atlassian presents **Crucible 2.6** with SQL Server support, improved Quick Search, much better handling of reviews for Subversion merge commits and HTML emails.

Highlights of this Release:

- [New Quick Search](#)
- [HTML Emails for Reviews](#)
- [Dashboard and Navigation Improvements](#)
- [SQL Server Support](#)

- Oracle Support
- Review Creation without Metadata Changes
- Improved Patch Anchoring
- And Even More Improvements

Responding to your Feedback:

★ Over **269** votes satisfied



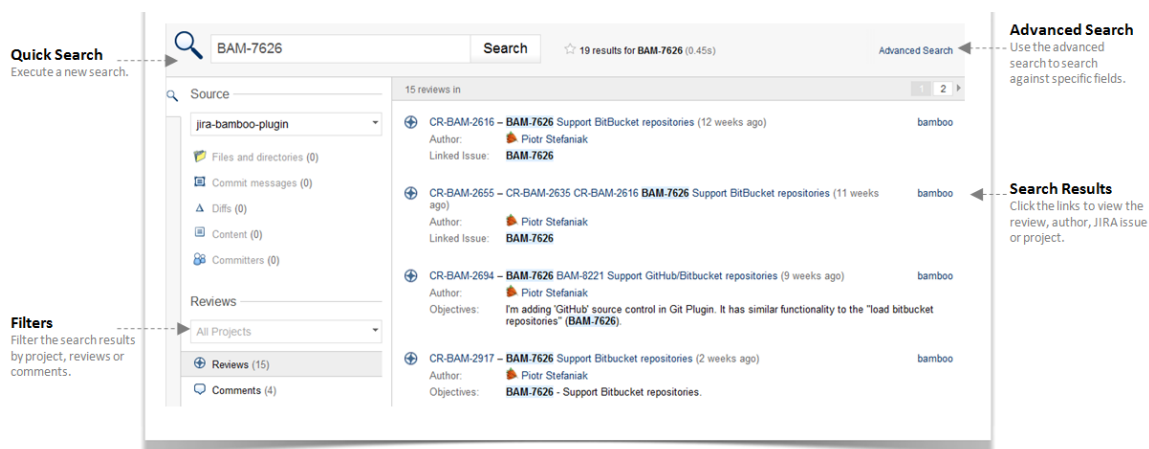
- Thank you for all your issues and votes. [Keep logging issues](#) to help us keep improving!
- Read the [release notices](#) for important information about this release.

Highlights of Crucible 2.6

1

New Quick Search

You'll be able to find information faster using Crucible's new Quick Search. The Quick Search helps you to find the exact information that you need with a click of a button. The search results are also easy to work with – the user interface has a clean look and feel and features wiki rendering for reviews, popup summaries for JIRA issues in commit messages and more.



More...

2

HTML Emails for Reviews

A 20% time project has resulted in email notifications getting a dramatic facelift. Gone are the dreary plain text emails, replaced by much better-looking HTML emails. You'll see the new emails in action for review notifications.



[FECRU-992](#): Fixing graph deeplinking. Now validates server side allowing the goto changeset id...

CR-FE-5614

There are 3 new comments in the following 3 threads:

[visualisation.jsp](#)



Seb Ruiz

Delete the duplicate definition.



Jason Hinch

Joe has been working twice as hard



Joe

O_O what happened there?



[project-visualiser.js](#)



Seb Ruiz

What does this change do?



Jason Hinch

it removes the query string and hash from the URL



Jason Hinch

This is required for the page pop to occur. If you remove a branch then you don't want it to be automatically added back in due to a query string param



[ViewRepositoryGraphAction.java](#)



Seb Ruiz

Why not get the changeset off the changesetholder object?



Jason Hinch

The changeset holder is null at this point as its only not null when we are execute the action for the more info dialog



Participants



[Jason Hinch](#)

Author



[Adam Ahmed](#)

Reviewer



[Seb Ruiz](#)

Reviewer (*complete*)



[Joe](#)

Reviewer

Objectives

[4521e3b7887869a2f040753d70f5c8ca1906057e](#): [FECRU-992](#): Fixing graph deeplinking. Now validates server side allowing the goto changeset id functionality to work when the csid or tag is not on a branch in the branch set

3

Dashboard and Navigation Improvements

The Dashboard and Header have been tweaked to simplify the user interface in this release. You won't have to click different tabs to find the activity stream, as it will always be displayed. We've moved the other functions to

the header to remove the clutter and provide you with a more streamlined view.

Reviews
Your Reviews Inbox is now accessible via the header.

Favourites
Your Favourites are now accessible via the header.

Activity Stream
The Dashboard always shows the activity stream.

[More...](#)

4

SQL Server Support

We are happy to announce that Crucible 2.6 now supports [Microsoft SQL Server](#) 2005 and 2008.

[More...](#)

5

Oracle Support

We previously announced beta support for the [Oracle](#) DBMS in [Crucible 2.5](#). We are happy to announce that this is no longer in beta, and that the Oracle DBMS is officially supported for Crucible 2.6.

[More...](#)

6

Review Creation without Metadata Changes

Creating a review from a Subversion commit will now exclude metadata-only changes to files. You won't get pesky `svn mergeinfo` properties cluttering your review screens anymore! We've also prevented changesets that are entirely `svnprops` changes (i.e. don't have any non-metadata changes) from being added to reviews.

[More...](#)

7

Improved Patch Anchoring

We've revamped patch anchoring in this release. All the work has been done under the covers, to improve how a patch anchors to a repository. You should just notice that anchoring patches works better, when creating a review. And if something does go wrong, we've built in better error handling so that you'll know what went wrong.

[More...](#)



And Even More Improvements

[Visit our issue tracker](#) to see the full list of improvements and bug fixes in FishEye and Crucible for this release.

Release Notices

- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straightforward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the [Crucible 2.6 Upgrade Guide](#) for further essential information about your upgrade.
- **Known Issues.** Please check the [important technical advisories](#) on the front page of the Knowledge Base for information about any known issues for this release.

Crucible 2.6 Changelog

This page contains information about the Crucible 2.6 minor releases. FishEye license holders should also check the [FishEye 2.6 Changelog](#).

See the [Crucible 2.6 Release Notes](#) for details of what's new in 2.6.0.



Please read the [Crucible 2.6 Upgrade Guide](#) before upgrading to any of the minor releases below.

On this page:

- [From 2.6.6 to 2.6.7](#)

JIRA Issues (1 issues)

- [From 2.6.5 to 2.6.6](#)

JIRA Issues (4 issues)

- [From 2.6.4 to 2.6.5](#)

JIRA Issues (0 issues)

- [From 2.6.3 to 2.6.4](#)

JIRA Issues (0 issues)

- [From 2.6.2 to 2.6.3](#)

JIRA Issues (5 issues)

- [From 2.6.1 to 2.6.2](#)

JIRA Issues (3 issues)

- [From 2.6.0 to 2.6.1](#)

JIRA Issues (8 issues)

From 2.6.6 to 2.6.7

31 January 2012

This is a bug fix release. The complete list of issues is below.










[JIRA Issues](#) (1 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3891	Webwork 2 vulnerability	Vitaly Osipov [Atlassian]	Paul Watson [Atlassian]		 Closed	Fixed	Jan 16, 2012	Jan 31, 2012

From 2.6.5 to 2.6.6**2 September 2011**

This is a bug fix release. The complete list of issues is below.

JIRA Issues (4 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5875	Review permid matching patterns are too greedy and cause number format exceptions	Jason Hinch [Atlassian]	Jason Hinch [Atlassian]		 Closed	Fixed	Aug 26, 2011	Sep 01, 2011
	CRUC-5871	Cannot view an added file with multiple revisions in side by side diff mode	Jason Hinch [Atlassian]	Jason Hinch [Atlassian]		 Closed	Fixed	Aug 22, 2011	Aug 28, 2011
	CRUC-5853	Crucible ToDo gadget links don't work due to extra	Joe Xie [atlassian]	Jay Barra		 Closed	Fixed	Aug 01, 2011	Sep 08, 2011

		slashes in the url							
	CRUC-5124	Extra space in review page	Joe Xie [atlassian]	Felipe Kraemer [Atlassian]	↑	 Closed	Fixed	Dec 06, 2010	Sep 01, 2011

From 2.6.4 to 2.6.5**24 August 2011**

This is a FishEye bug fix release. For details, see the [FishEye 2.6 Changelog](#).

JIRA Issues (0 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
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From 2.6.3 to 2.6.4**22 August 2011**

This is a FishEye bug fix release. For details, see the [FishEye 2.6 Changelog](#).





JIRA Issues (0 issues)


Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
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From 2.6.2 to 2.6.3**9 August 2011**

This is a bug fix release. The complete list of issues is below.

JIRA Issues (5 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-4683	Create a plugin point for external activity item providers	John Kodumal [Atlassian]	John Kodumal [Atlassian]	↓	 Closed	Fixed	Oct 25, 2010	Aug 09, 2011
	CRUC-	Patch	Unassi	Matthe	↑	 Closed	Fixed	Jul 21,	Aug 14,







	5862	Anchoring: UI Improvements for uploading patches	igned	w Watson [Atlassian]		ed		2011	2011
	CRUC-5842	GZIP Attachments get GZIPPED when downloaded from Crucible	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]	↓	 Closed	Fixed	Jul 22, 2011	Oct 24, 2011
	CRUC-5832	Crucible Source names are not being trimmed, and review creation fails.	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]	↓	 Closed	Fixed	Jul 19, 2011	Jul 21, 2011
	CRUC-5829	uploading a patch can take a very long time	Matthew Watson [Atlassian]	Geoff Crain [Atlassian]	↑	 Closed	Fixed	Jul 15, 2011	Aug 14, 2011

From 2.6.1 to 2.6.2**20 July 2011**

This is a bug fix release. The complete list of issues is below.

JIRA Issues (3 issues)



Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
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	CRUC-5830	Admin allows the creation of permission schemes with blank names	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↓	 Closed	Fixed	Jul 17, 2011	Jul 19, 2011
	CRUC-5827	10 minute page load time for pre-commit diffs of large (1000LOC) files	Geoff Crain [Atlassian]	Nick Pellow [Atlassian]	↑	 Closed	Fixed	Jul 13, 2011	Jul 17, 2011
	CRUC-5821	Review InfoData.incremental() is inefficient and causes Repo Review Indexing to hang.	Unassigned	Trevor Samaroo	↑	 Closed	Fixed	Jul 07, 2011	Jul 19, 2011










From 2.6.0 to 2.6.1**22 June 2011**

This is a bug fix release. The complete list of issues is below.

JIRA Issues (8 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5809	Reviews with anchor	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]	↓	 Closed	Fixed	Jun 18, 2011	Jun 20, 2011

		ed patche s cause NPE when anchor ed reposit ory isn't availabl e.	an]	an]					
	CRUC-5783	Applink s to non-JI RA servers confus e the Crucibl e link review to issue proces s	Anna Buttfiel d [Atlassi an]	Conor MacNei ll [Atlassi an]	↓	 Clos ed	Fixed	May 31, 2011	Jun 23, 2011
	CRUC-5782	Excepti on while looking up JIRA issue ends request in error	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]	↑	 Clos ed	Fixed	Jun 01, 2011	Aug 29, 2011
	CRUC-5780	NPE when trying to link review to JIRA issue causes failure of review creatio n	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]	↑	 Clos ed	Fixed	May 31, 2011	Jun 08, 2011
	CRUC-5778	Moving a	Tom Davies	Tom Davies	↑	 Clos ed	Fixed	May 27,	Jun 19, 2011

		review between project's fails when the default moderator of the destination project is the same as the current moderator	[Atlassian]	[Atlassian]				2011	
	CRUC-5777	Recording which reviews contain which revisions stops a repository scanning	Geoff Crain [Atlassian]	Tom Davies [Atlassian]		 Closed	Fixed	May 27, 2011	Jun 15, 2011
	CRUC-5773	List of JIRA Projects in linked server is cached forever	Tom Davies [Atlassian]	Tim Pettersen		 Closed	Fixed	May 25, 2011	Jun 14, 2011
	CRUC-5546	[Admin] "Save & Migrate" is	Anna Buttfeld [Atlassian]	Brendan Humphreys [Atlassian]		 Closed	Fixed	Jan 31, 2011	Jun 19, 2011

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Crucible 2.6 Upgrade Guide

Below are some important notes on upgrading to **Crucible 2.6**. For details of the new features and improvements in this release, please read the [Crucible 2.6 Release Notes](#).

On this page:

- [Upgrade Notes](#)
 - [Crucible 2.6](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the Crucible Upgrade](#)

Upgrade Notes

Crucible 2.6

- **Internet Explorer 7 and Java Platform 5 (JDK/JRE 1.5) no longer supported** — As per the [End of Support Announcements for Crucible](#) (published previously), we are no longer supporting Internet Explorer 7 and Java Platform 5 (JDK/JRE 1.5) in this release. See [Supported Platforms](#) page for the full list of supported platforms for Crucible.
- **Disabling review creation without metadata** — Crucible 2.6 introduces [review creation without metadata](#). This functionality is enabled by default. If you want to **disable this functionality**, you can do so by starting up Crucible with the following system property:
`-Dcrucible.detect.metadata.revision.changes=false`
For further details, read this FAQ: [How do I force reviews to include SVN property changes?](#)

Upgrade Procedure



Before you begin

- Test your upgrades in your test environment before rolling into production.
- Back up your **entire** Crucible instance (see [Backing up and restoring Crucible data](#)), i.e.
 - If you are backing up your Crucible instance via the Admin interface, tick all of the '**Include**' checkboxes (e.g. plugins, templates, uploads, SQL database, etc).
 - If you are backing up your Crucible instance using the command-line interface, do not use any [exclusion options](#).

If you are already running a version of Crucible, please refer to the [Crucible upgrade guide](#).

Checking for Known Issues and Troubleshooting the Crucible Upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues.** Sometimes we find out about a problem with the latest version of Crucible after we have released the software. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the [Crucible 2.6 Known Issues](#) in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the Crucible Knowledge Base.

- If you encounter a problem during the upgrade and cannot solve it, please create a [support ticket](#) and one of our support engineers will help you.

RELATED TOPICS

[Crucible 2.6 Release Notes](#)

Crucible 2.5 Release Notes

8 February 2011

With great pleasure, Atlassian presents **Crucible 2.5**, now with support for Oracle and redesigned Activity Stream.

Highlights of this Release:

- [Oracle Support \(beta\)](#)
- [Redesigned Activity Stream](#)
- [Improved Header](#)
- [Comment Notification Batching](#)
- [And Even More Improvements](#)

Responding to your Feedback:

★ Over **150** votes satisfied



- Thank you for all your issues and votes. [Keep logging issues](#) to help us keep improving!
- Read the [release notices](#) for important information about this release.

Highlights of Crucible 2.5

1

Oracle Support (beta)

We have been working very hard on adding support for the Oracle DBMS for Crucible 2.5 as this has been a very popular feature request with more than 115 votes.

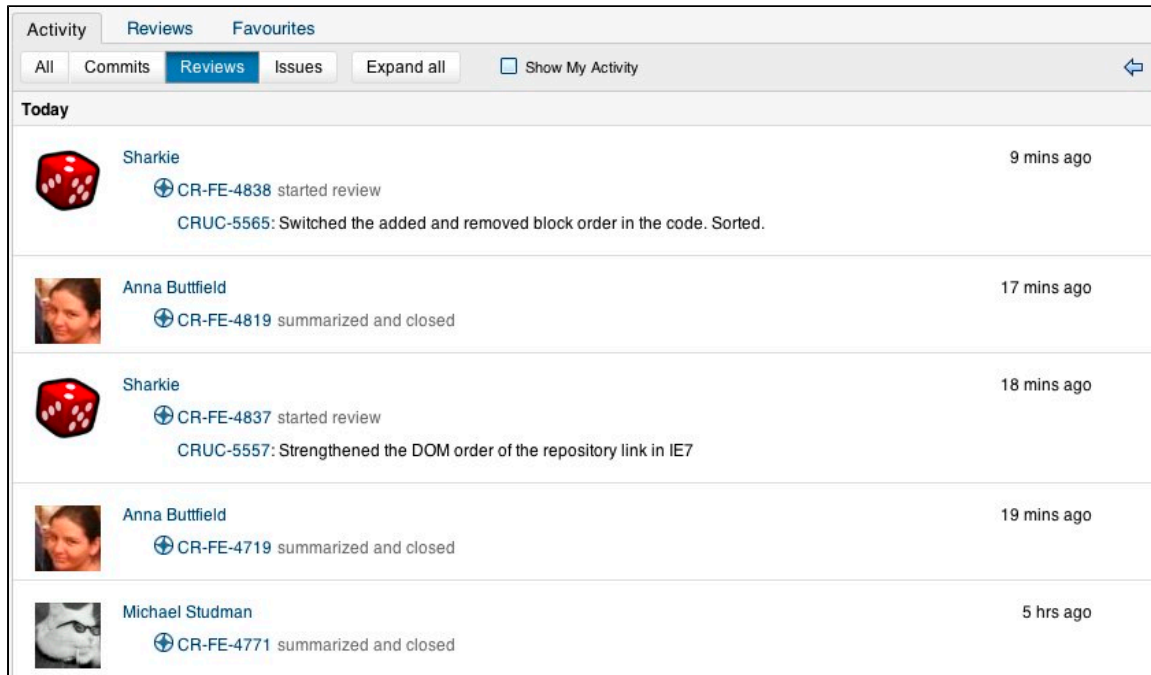
We have been using Crucible with Oracle over the past month ourselves, so we believe we are almost there. We would love for you to give Crucible a try on Oracle DBMS and let us know if you run into any problems by [creating an issue](#).

2

Redesigned Activity Stream

We have spent a considerable amount of time improving the FishEye activity stream:

- Cleaner visual design
- Larger avatars
- Improved scanability
- De-cluttering of UI elements, showing actions on hover
- Space-saving condensed mode so you can see more changesets on the same page



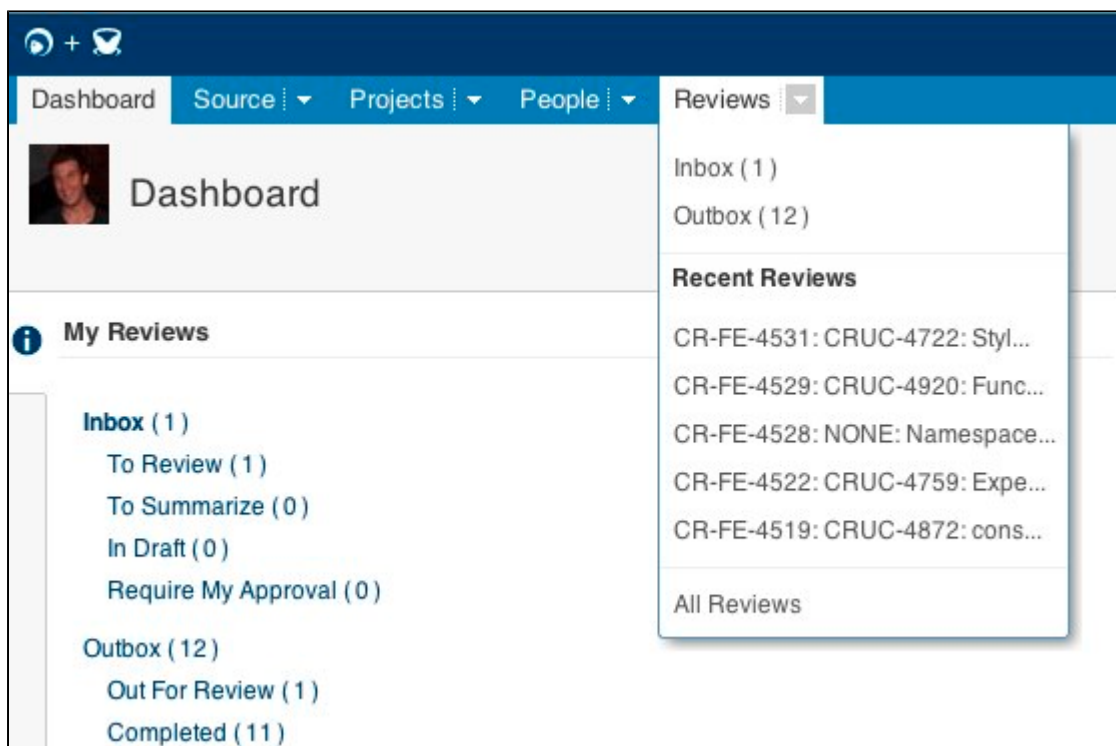
The screenshot shows the 'Reviews' tab in the Crucible interface. At the top, there are tabs for 'Activity', 'Reviews', and 'Favourites'. Below these are filters for 'All', 'Commits', 'Reviews' (selected), and 'Issues', along with an 'Expand all' button and a 'Show My Activity' checkbox. The main content area is titled 'Today' and lists five review activities:

- Sharkie** (9 mins ago): CR-FE-4838 started review. CRUC-5565: Switched the added and removed block order in the code. Sorted.
- Anna Buttfeld** (17 mins ago): CR-FE-4819 summarized and closed.
- Sharkie** (18 mins ago): CR-FE-4837 started review. CRUC-5557: Strengthened the DOM order of the repository link in IE7.
- Anna Buttfeld** (19 mins ago): CR-FE-4719 summarized and closed.
- Michael Studman** (5 hrs ago): CR-FE-4771 summarized and closed.

3

Improved Header

Crucible 2.5 tracks locations that you have recently visited, and provides quick and easy access to navigate to these resources. The five most recently viewed projects, reviews, users and repositories (if FishEye is installed) are available from the header drop down links as shown:



The screenshot shows the Crucible header and the 'My Reviews' section. The header has a dark blue bar with icons for home, search, and notifications. Below the header, there are tabs for 'Dashboard', 'Source', 'Projects', 'People', and 'Reviews' (selected). The 'Reviews' dropdown menu is open, showing 'Inbox (1)', 'Outbox (12)', 'Recent Reviews' (with a list of five review items), and 'All Reviews'. The 'My Reviews' section on the left shows a summary of review counts:

- Inbox (1)**
 - To Review (1)
 - To Summarize (0)
 - In Draft (0)
 - Require My Approval (0)
- Outbox (12)**
 - Out For Review (1)
 - Completed (11)

4

Comment Notification Batching

Email notifications from Crucible can be frequent, particularly on reviews with many participants and lots of comments. We won't say spam, but it can certainly feel "chatty!" Crucible 2.5 remedies this problem with improved batching of emails. All comments are grouped together and sent in a user-specified interval. They're easier to read and will keep your inbox happy. It works for draft comments and edited comments, too, so fixing a typo will no longer send out multiple notifications!

Example:

```

There are 2 new comments in the following thread:
  AuthenticationStyle.java -
http://localhost:6060/crucible/cru/CR-FE-4223/#c36358
  Geoff Crain on 02 Feb 2011, 12:01
    Is this really how this is supposed to work? You should fix this.
      ***** New
*****
*****
  Seb Ruiz on 02 Feb 2011, 13:31
    Geoff is right. But youll have to fix it on a separate branch.

*****
*****
      ***** New
*****
*****
  Joe Xie on 02 Feb 2011, 13:32
    Fixed.. change is here:
http://localhost:6060/crucible/changelog/FE?cs=e962e59bccda

*****
*****

```

And Even More Improvements

- The [Universal Plugin Manager](#)
- Improved submit time dialog to JIRA:

Review Complete

You have marked CR-FE-4715 as completed.

Time spent in review: *23m*
 So far you've submitted: *0m*

Submit 23m to JIRA

Easy as pie.

Incomplete Reviewers:
 Adam Ahmed

You can continue to add new comments and reply to comments until the Author (Jason Hinch) summarizes the review.

Other reviews requiring your attention:

Task	Review	Owner	Due
Review	CR-FE-4698		19 Jan 11
Review	CR-FE-4714		23 Jan 11

[Dashboard](#) [Close](#)

Visit our [issue tracker](#) to see the full list of improvements and bug fixes in FishEye and Crucible for this release.

Release Notices

Crucible 2.5 Changelog

This page contains information about the Crucible 2.5 minor releases. FishEye license holders should also check the [FishEye 2.5 Changelog](#).

Please read the [Crucible 2.5 Upgrade Guide](#) before upgrading to any of the minor releases below.

On this page:

- [From 2.5.6 to 2.5.7](#)

JIRA Issues (6 issues)

- [From 2.5.5 to 2.5.6](#)

JIRA Issues (3 issues)

- [From 2.5.4 to 2.5.5](#)

JIRA Issues (7 issues)

- [From 2.5.3 to 2.5.4](#)

JIRA Issues (7 issues)

- [From 2.5.2 to 2.5.3](#)

JIRA Issues (7 issues)

- [From 2.5.1 to 2.5.2](#)

JIRA Issues (21 issues)

- [From 2.5.0 to 2.5.1](#)













JIRA Issues (17 issues)





[From 2.5.6 to 2.5.7](#)

22 June 2011

This is a bug fix release. The complete list of issues is below.

JIRA Issues (6 issues)



Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5811	Permission checking bug in Crucible Review Tooltips	Vitaly Osipov [Atlassian]	Andrew Lui [Atlassian Technical Writer]		 Closed	Fixed	Jun 20, 2011	Nov 30, 2011
	CRUC-5782	Exception while looking up JIRA issue ends request in error	Tom Davies [Atlassian]	Tom Davies [Atlassian]		 Closed	Fixed	Jun 01, 2011	Aug 29, 2011
	CRUC-5780	NPE when trying to link review to JIRA issue causes failure of review creation	Tom Davies [Atlassian]	Tom Davies [Atlassian]		 Closed	Fixed	May 31, 2011	Jun 08, 2011
	CRUC-5778	Moving a review between projects fails when the	Tom Davies [Atlassian]	Tom Davies [Atlassian]		 Closed	Fixed	May 27, 2011	Jun 19, 2011

		default moderator of the destination project is the same as the current moderator							
	CRUC-5773	List of JIRA Projects in linked server is cached forever	Tom Davies [Atlassian]	Tim Pettersen	↓	 Closed	Fixed	May 25, 2011	Jun 14, 2011
	CRUC-5707	review coverage report gadget is broken	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↑	 Closed	Fixed	Mar 31, 2011	Jun 01, 2011





From 2.5.5 to 2.5.6**24 May 2011**

This is a bug fix release. The complete list of issues is below.

JIRA Issues (3 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5540	Fix patch anchoring when the patch generated by IDE Connec	Geoff Crain [Atlassian]	Anton Mazkovi [Atlassian]	↓	 Closed	Fixed	Jan 31, 2011	May 18, 2011

tors is
pasted
into the
Crucible
UI





	CRUC-5769	NullPointerException when anchoring a patch	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↓	 Closed	Fixed	May 18, 2011	May 19, 2011
	CRUC-5767	crucible patch anchoring doesnt support hg patches generated from intellij	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	 Closed	Fixed	May 17, 2011	May 18, 2011











From 2.5.4 to 2.5.5

11 May 2011

This is a bug fix release. The complete list of issues is below.

JIRA Issues (7 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5742	Pre-commit patches diff is mixing files together	Geoff Crain [Atlassian]	Felipe Kraemer [Atlassian]	↑	 Closed	Fixed	May 02, 2011	May 08, 2011
	CRUC-5727	Pressing 'N' or 'P' to traverse comments	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]	↓	 Closed	Fixed	Apr 14, 2011	Apr 18, 2011

		from general comme nts page causes js error							
	CRUC-5722	NullPointerException when sorting revisions we a mix of null and not null branches	Jason Hinch [Atlassian]	Jason Hinch [Atlassian]	↑	 Closed	Fixed	Apr 13, 2011	Jul 14, 2011
	CRUC-5356	atl.general decorator is not applied in Crucible	Tim Pettersen [Atlassian]	Mario Mueller	↓	 Closed	Fixed	Jan 11, 2011	Jul 18, 2011
	CRUC-4143	View Drafts not viewing drafts	Adam Ahmed [Atlassian]	Don Willis [Atlassian]	↓	 Closed	Fixed	Aug 31, 2010	Apr 12, 2011
	CRUC-3766	Repository path with space breaks the patch review	Geoff Crain [Atlassian]	Ming Giet Chong [Atlassian]	↑	 Closed	Fixed	Jul 15, 2010	May 29, 2011
	CRUC-3702	pre-commit patches reviews	Geoff Crain [Atlassian]	Justus Pendleton [Atlassian]	↑	 Closed	Fixed	Jun 29, 2010	May 29, 2011







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work









From 2.5.3 to 2.5.4

11 April 2011

This is a bug fix release. The complete list of issues is below.

JIRA Issues (7 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5715	After migrating to a different database, session factories injected into spring beans still point to the old database.	Unassigned	Tom Davies [Atlassian]	↑	 Closed	Fixed	Apr 06, 2011	Apr 07, 2011
	CRUC-5710	Web Resources are loaded twice on pages rendered with some decorators	Jason Hinch [Atlassian]	Jason Hinch [Atlassian]	↓	 Closed	Fixed	Apr 05, 2011	Apr 07, 2011
	CRUC-5673	Time field displayed incorrectly when	Adam Ahmed [Atlassian]	Felipe Kraemer [Atlassian]	↓	 Closed	Fixed	Mar 11, 2011	Mar 31, 2011



















		editing review							
	CRUC-5657	Add comment using Chrome ends up with no review content	Adam Ahmed [Atlassian]	Brad Baker [Atlassian]	↑	 Closed	Fixed	Mar 07, 2011	Apr 18, 2011
	CRUC-5644	RSS Feed option under Tools menu is not displaying correctly on IE7	Craig Sharkie [Atlassian]	Felipe Kraemer [Atlassian]	↓	 Closed	Fixed	Feb 24, 2011	Apr 08, 2011
	CRUC-5585	Date format error in edit crucible review dialog	Adam Ahmed [Atlassian]	Jake Causby [Atlassian]	↓	 Closed	Fixed	Feb 03, 2011	Apr 11, 2011
	CRUC-5427	reloading content in reviews doesnt work. at all.	Adam Ahmed [Atlassian]	Geoff Crain [Atlassian]	↑	 Closed	Fixed	Jan 18, 2011	Mar 31, 2011



From 2.5.2 to 2.5.3**28 March 2011**

This is a bug fix release. The complete list of issues is below.

JIRA Issues (7 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
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	CRUC-5685	No Tools Menu on Snippet Review screen	Conor MacNeill [Atlassian]	Eric Scheie		 Closed	Fixed	Mar 17, 2011	Mar 27, 2011
	CRUC-5670	"Add invitee" button does not work	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Mar 10, 2011	Mar 13, 2011
	CRUC-5669	LocMetricsService.getLocation() returns incorrect results	Joe Xie [atlassian]	Joe Xie [atlassian]		 Closed	Fixed	Mar 10, 2011	Mar 28, 2011
	CRUC-5662	Branch Order in branch selector drop down should be sorted better	Seb Ruiz [Atlassian]	Brydie McCoy [Atlassian]		 Closed	Fixed	Mar 08, 2011	Mar 21, 2011
	CRUC-5661	Searching with branch selector doesn't show all results	Seb Ruiz [Atlassian]	Brydie McCoy [Atlassian]		 Closed	Fixed	Mar 08, 2011	Mar 21, 2011
	CRUC-5436	UI Errors: Problems calling functio	Conor MacNeill [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Jan 18, 2011	Jun 06, 2011













	CRUC-5117	n 'cru:get StyleCl ass' and similar Image files (jpg) not comple tely visible in source tab	Adam Ahmed [Atlassi an]	Gurlee n Anand [Atlassi an]	↑	 Clos ed	Fixed	Dec 02, 2010	Apr 03, 2011
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From 2.5.1 to 2.5.2**8 March 2011**











This is a bug fix release. The complete list of issues is below.













JIRA Issues (21 issues)

Type	Key	Summ ary	Assign ee	Report er	Priorit y	Status	Resolu tion	Create d	Update d
	CRUC-5648	Bundle a Lucene optimiz er as an offline comm and	Pierre- Etienne Poirot [Atlassi an]	Pierre- Etienne Poirot [Atlassi an]	↓	 Clos ed	Fixed	Mar 01, 2011	Jul 17, 2011
	CRUC-5138	Add an offline comm and to optimiz e the indexes	Pierre- Etienne Poirot [Atlassi an]	Pierre- Etienne Poirot [Atlassi an]	↓	 Clos ed	Fixed	Dec 09, 2010	Sep 15, 2011
	CRUC-4818	Need to prevent UAL (and depend ent)	Tom Davies [Atlassi an]	Tim Petters en [Atlassi an]	↑	 Clos ed	Fixed	Nov 04, 2010	Feb 14, 2011

		plugins from being disabled.							
	CRUC-5735	XSS vulnerability in Crucible Author Mapping	Vitaly Osipov [Atlassian]	Andrew Lui [Atlassian Technical Writer]		 Closed	Fixed	Apr 20, 2011	May 30, 2011
	CRUC-5734	XSS vulnerability in Crucible's Snippets	Vitaly Osipov [Atlassian]	Andrew Lui [Atlassian Technical Writer]		 Closed	Fixed	Apr 20, 2011	May 30, 2011
	CRUC-5652	After 2.5 upgrade indexing stops with error "Changeset comment messages may not be null or empty"	Michael Studman [Atlassian]	Gurleen Anand [Atlassian]		 Closed	Fixed	Feb 15, 2011	Mar 06, 2011
	CRUC-5645	Files that are added/moved should take up the whole width of the pane,	Geoff Crain [Atlassian]	Joe Xie [atlassian]		 Closed	Fixed	Feb 24, 2011	Mar 01, 2011

		even if side by side view is selecte d							
	CRUC-5643	No vertical scroll bar visible when adding change set to Crucible review under IE 7.0	Craig Sharkie [Atlassian]	Felipe Kraemer [Atlassian]	↓	 Closed	Fixed	Feb 24, 2011	Mar 03, 2011
	CRUC-5641	NullPointerException in REST search reviews for terms (because of an invalid HQL query)	Anna Buttflied [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↑	 Closed	Fixed	Feb 21, 2011	Mar 06, 2011
	CRUC-5636	JavaScript syntax highlighter does not highlight undefined and delete keywords	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]	↓	 Closed	Fixed	Feb 21, 2011	Feb 21, 2011

	CRUC-5635	Defect classification screens show id instead of label	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]	↓	 Closed	Fixed	Feb 21, 2011	Feb 21, 2011
	CRUC-5626	Git patch parsing throws a NPE	Anna Buttflied [Atlassian]	Anna Buttflied [Atlassian]	↓	 Closed	Fixed	Feb 16, 2011	Mar 09, 2011
	CRUC-5622	Getting the list of projects via the api (either rest-service/projects-v1 or project Service .getAllProjects) fails with a LazyInitializationException	Anna Buttflied [Atlassian]	Anna Buttflied [Atlassian]	↓	 Closed	Fixed	Feb 15, 2011	Apr 07, 2011
	CRUC-5616	Empty responses from p4 commands cause NullPointerException	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↑	 Closed	Fixed	Feb 10, 2011	Apr 08, 2011
	CRUC-5615	java.lang.NoClassDefFoundError:	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↑	 Closed	Fixed	Feb 09, 2011	Jul 11, 2011








		org/tigris/subversion/java/SVNClient thrown on startup							
	CRUC-5539	Problem with handling files with spaces	Ian Grunert [Atlassian]	Anton Mazkovi [Atlassian]	↑	 Closed	Fixed	Jan 30, 2011	Mar 06, 2011
	CRUC-5429	Error generating FishEye backup on Windows	Adam Ahmed [Atlassian]	Felipe Kraemer [Atlassian]	↓	 Closed	Fixed	Jan 18, 2011	Apr 06, 2011
	CRUC-4984	"that is unreviewed" filter is broken	Adam Ahmed [Atlassian]	Agnes Ro [Atlassian]	↑	 Closed	Fixed	Nov 18, 2010	Feb 16, 2011
	CRUC-4787	Patch reviews from mercurial diffs don't anchor to their repository	Geoff Crain [Atlassian]	Nicolas Venegas	↓	 Closed	Fixed	Nov 03, 2010	Nov 15, 2011
	CRUC-3885	No full context when anchoring patches from CVS	Geoff Crain [Atlassian]	Andrew Myers [Atlassian]	↓	 Closed	Fixed	Aug 06, 2010	Mar 01, 2011
	CRUC-	Patch	Geoff	Ming	↑	 Closed	Fixed	Apr 13,	Mar 01,







3346	anchoring doesn't seem to work with P4 patch	Crain [Atlassian]	Giet Chong [Atlassian]	ed	2010	2011
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From 2.5.0 to 2.5.1**10 February 2011**









This is a bug fix release. The complete list of issues is below.













JIRA Issues (17 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5612	Make Oracle multodb tests support testing of upgrades	Michael Studman [Atlassian]	Michael Studman [Atlassian]	↓	 Closed	Fixed	Feb 09, 2011	Feb 16, 2011
	CRUC-5609	Review rss feed provides no way to navigate to review in thunderbird	Seb Ruiz [Atlassian]	Brydie McCoy [Atlassian]	↑	 Closed	Fixed	Feb 08, 2011	Feb 09, 2011
	CRUC-5608	Cannot Edit Per-Repository Authentication Settings	Jason Hinch [Atlassian]	Dylan Hansen [Atlassian]	↓	 Closed	Fixed	Feb 08, 2011	Jun 23, 2011
	CRUC-5599	Upgrade	Michael Studman	Michael Studman	↓	 Closed	Fixed	Feb 07, 2011	Feb 16, 2011

		scripts do not always create the same schema as scripts to create a new database	n [Atlassian]	n [Atlassian]					
	CRUC-5597	The "Tabs" on the statistics panel of the "Project View" do not work in JIRA 4.2.3 and JIRA 4.3	Joe Xie [atlassian]	Brenden Bain [Atlassian]	↓	 Closed	Fixed	Feb 06, 2011	Feb 13, 2011
	CRUC-5594	Adding an AppLink to a "standalone Crucible" creates a FishEye configuration that is unusable.	Luis Miranda [Atlassian]	Brenden Bain [Atlassian]	↑	 Closed	Fixed	Feb 04, 2011	Feb 13, 2011
	CRUC-5581	UAL website link	Luis Miranda	Joe Xie [atlassian]	↓	 Closed	Fixed	Feb 02, 2011	Feb 13, 2011

for [Atlassian]
 fisheye
 configuration
 links to
 a page
 that
 shows
 all
 possible
 options
 , even
 if those
 options
 are
 global
 and will
 not
 apply
 to the
 instance
 being
 edited

	CRUC-5574	Update "refresh cache" links to synch form App Links as well.	Joe Xie [atlassian]	Mark Lassau [Atlassian]	↓	 Closed	Fixed	Feb 02, 2011	Feb 15, 2011
	CRUC-5526	FishEye instance gets re-created on JIRA restart	Joe Xie [atlassian]	Luis Miranda [Atlassian]	↑	 Closed	Fixed	Jan 30, 2011	Feb 13, 2011
	CRUC-5475	Create func tests for all search result pages	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]	↑	 Closed	Fixed	Jan 21, 2011	Feb 20, 2011
	CRUC-5426	Add a link in	Joe Xie [atlassian]	Luis Miranda	↓	 Closed	Fixed	Jan 18, 2011	Feb 15, 2011

		admin UI to UAL admin screen	an]	a [Atlassi an]						
	CRUC-5400	On Plugin startup, synchr onise App Links	Joe Xie [atlassi an]	Mark Lassau [Atlassi an]	↓	 Clos ed	Fixed	Jan 17, 2011	Feb 13, 2011	
	CRUC-5188	Update admin UI	Mark Lassau [Atlassi an]	Joe Xie [atlassi an]	↑	 Clos ed	Fixed	Dec 13, 2010	Feb 13, 2011	
	CRUC-5183	Extend oauth service s to REST resourc es (such as gadget s)	Joe Xie [atlassi an]	Joe Xie [atlassi an]	↑	 Clos ed	Fixed	Dec 13, 2010	Feb 13, 2011	
	CRUC-5156	upgrad e tasks to create Applica tion Links for existing legacy links on plugin startup	Joe Xie [atlassi an]	Joe Xie [atlassi an]	⊘	 Clos ed	Fixed	Dec 12, 2010	Feb 13, 2011	
	CRUC-5154	Add support for OAuth authent ication	Joe Xie [atlassi an]	Joe Xie [atlassi an]	⊘	 Clos ed	Fixed	Dec 12, 2010	Feb 13, 2011	
	CRUC-	Activity	Tom	Brenda	↑	 Clos ed	Fixed	Nov 23,	Nov 14,	

5026	Stream Handle r incore ctly uses Source. getCha ngeset(csid) to validate a change set ID	Davies [Atlassi an]	n Humph reys [Atlassi an]	ed	2010	2011
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Crucible 2.5 Upgrade Guide

Below are some important notes on upgrading to **Crucible 2.5**. For details of the new features and improvements in this release, please read the [Crucible 2.5 Release Notes](#).

On this page:

- [Upgrade Notes](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the Crucible Upgrade](#)

Upgrade Notes

- **Crucible 2.5:**
 -  This is only relevant when Crucible is run in conjunction with FishEye. This release will trigger an automatic upgrade of the metadata index the first time Crucible is started. Crucible is still usable while this task runs in the background, however the FishEye search functionality will not contain all results. A warning will appear in the UI until the upgrade has complete. Please also see [How do I Avoid Long Reindex Times When I Upgrade?](#)

Upgrade Procedure



Before you begin

- Test your upgrades in your test environment before rolling into production.
- Back up your **entire** Crucible instance (see [Backing up and restoring Crucible data](#)), i.e.
 - If you are backing up your Crucible instance via the Admin interface, tick all of the '**Include**' checkboxes (e.g. plugins, templates, uploads, SQL database, etc).
 - If you are backing up your Crucible instance using the command-line interface, do not use any [exclusion options](#).

If you are already running a version of Crucible, please refer to the [Crucible upgrade guide](#).

Checking for Known Issues and Troubleshooting the Crucible Upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues.** Sometimes we find out about a problem with the latest version of Crucible after we have released the software. In such cases we publish information about the known issues in the

Crucible Knowledge Base. Please check the [Crucible 2.5 Known Issues](#) in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.

- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the Crucible Knowledge Base.
- If you encounter a problem during the upgrade and cannot solve it, please create a [support ticket](#) and one of our support engineers will help you.

RELATED TOPICS

[Crucible 2.5 Release Notes](#)

Security advisories

Finding and reporting a security vulnerability

Atlassian's approach to releasing patches is detailed in [How to Report a Security Issue](#).

Publication of Bamboo security advisories

Atlassian's approach to publishing security advisories is detailed in [Security Advisory Publishing Policy](#).

Severity levels

Atlassian's scale for measuring security issues is detailed in [Severity Levels for Security Issues](#).

Our patch policy

Atlassian's approach to releasing patches is detailed in our [Security Patch Policy](#).

Security advisories

- [FishEye and Crucible Security Advisory 2012-08-21](#)
- [FishEye and Crucible Security Advisory 2012-05-17](#)
- [FishEye and Crucible Security Advisory 2012-01-31](#)
- [FishEye and Crucible Security Advisory 2011-11-22](#)
- [FishEye and Crucible Security Advisory 2011-05-16](#)
- [FishEye and Crucible Security Advisory 2011-01-12](#)
- [Crucible Security Advisory 2010-06-16](#)
- [Crucible Security Advisory 2010-05-04](#)

FishEye and Crucible Security Advisory 2012-08-21

This advisory discloses security vulnerabilities that we have found in FishEye and/or Crucible and fixed in a recent version of FishEye and/or Crucible.

- **Customers who have downloaded and installed FishEye and/or Crucible** should upgrade their existing FishEye and/or Crucible installations to fix this vulnerability.
- **Atlassian OnDemand and JIRA Studio customers** are not affected by any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerability listed in this advisory has been discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

In this advisory:

- [Elevation of privileges vulnerability](#)

Elevation of privileges vulnerability

Severity

Atlassian rates the severity level of this vulnerability as **Medium**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

This is an independent assessment and you should evaluate its applicability to your own IT environment.

Description



We have identified and fixed a vulnerability in FishEye and Crucible that results from behaviour of certain third-party frameworks used in FishEye and Crucible. This vulnerability allows any attacker to:

- Set the FishEye and Crucible instance to allow anonymous access
- Set the FishEye and Crucible instance to allow anonymous signup

All versions of FishEye and Crucible up to and including 2.7.14 are affected by this vulnerability. The vulnerability is fixed in FishEye and/or Crucible 2.8.0 and later. This issue can be tracked at

 [FE-4222 - Authenticate](#) to see issue details and  [CRUC-6188 - Authenticate](#) to see issue details .

The table below describes the FishEye and/or Crucible versions and the specific functionality affected by the vulnerabilities.

FishEye and/or Crucible Vulnerability	Affected versions	Fixed Version	Issue Tracking
Elevation of privileges	2.5.x or earlier	2.5.9	 FE-4222 - Authenticate to see issue details  CRUC-6188 - Authenticate to see issue details
	2.6.x	2.6.9	
	2.7.x	2.7.15, 2.8.0	

Note: The email we sent out wrongly states that fixed versions are 2.5.8 and 2.6.7. FishEye and Crucible development team apologise for the mistake.

Risk Mitigation

If you cannot upgrade immediately, you can disable all access from the public Internet to your FishEye and/or Crucible instance to prevent external attacks.

Fix

Upgrade

The vulnerabilities and fix versions are described in the 'Vulnerability' section above.

We recommend that you upgrade to the latest version of FishEye and/or Crucible, if possible. For a full description of the latest version of FishEye and Crucible, see the [FishEye release notes](#) and [Crucible release notes](#). You can download the latest version of FishEye and Crucible from the [FishEye download centre](#) and [Crucible download centre](#).

There are no patches available.

FishEye and Crucible Security Advisory 2012-05-17

This advisory discloses a **critical** security vulnerability that exists in all versions of FishEye and Crucible up to

and including 2.7.11.

- **Customers who have downloaded and installed FishEye or Crucible** should upgrade their existing FishEye and Crucible installations to fix this vulnerability.
- **Enterprise Hosted customers** need to request an upgrade by raising a support request at <http://support.atlassian.com> in the "Enterprise Hosting Support" project.
- **JIRA Studio and Atlassian OnDemand customers** are not affected by any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerability listed in this advisory has been discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

In this advisory:

- [Critical XML Parsing Vulnerability](#)
 - [Severity](#)
 - [Description](#)
 - [Risk Mitigation](#)
 - [Fix](#)

Critical XML Parsing Vulnerability

Severity

Atlassian rates the severity level of this vulnerability as **critical**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, medium or low.

This is an independent assessment and you should evaluate its applicability to your own IT environment.

Description

We have identified and fixed a vulnerability in FishEye and Crucible that results from the way third-party XML parsers are used in FishEye and Crucible.

This vulnerability allows an attacker to:

- execute denial of service attacks against the FishEye and Crucible server, and
- read all local files readable to the system user under which FishEye and Crucible runs.

An attacker does not need to have an account with the affected FishEye or Crucible server to exploit this vulnerability.

All versions of FishEye and Crucible **up to and including 2.7.11** are affected by this vulnerability. This issue can be tracked here: [🔒 FE-4016 - Authenticate to see issue details](#)

Risk Mitigation

We recommend that you upgrade your FishEye and Crucible installation to fix this vulnerability.

Alternatively, if you are not in a position to upgrade immediately, you should do **all** of the following until you can upgrade. Please note, these measures will only limit the impact of the vulnerability, they will not mitigate it completely.

- Disable access to the Remote, SOAP and XML-RPC APIs, if these remote APIs are not required. Note that remote API access is disabled by default. See [enabling plugins](#) for instructions.
- Disable public access (such as [anonymous access](#) and [public signup](#)) to your FishEye or Crucible

instance until you have applied the necessary upgrade.

- Ensure that your FishEye/Crucible system user is restricted as described in [best practices for configuring FishEye security](#).

Fix

Upgrade

Upgrade to FishEye and Crucible 2.7.12 or later which fixes this vulnerability. For a full description of these releases, see the [FishEye](#) and [Crucible](#) release notes. The following releases have also been made available to fix these issues in older FishEye and Crucible versions. You can download these versions from the [FishEye](#) and [Crucible](#) download centres.

- FishEye and Crucible 2.6.8 for FishEye and Crucible 2.6
- FishEye and Crucible 2.5.8 for FishEye and Crucible 2.5

Patches

There are no patches available for this vulnerability.

FishEye and Crucible Security Advisory 2012-01-31

This advisory discloses a **CRITICAL** security vulnerability that we have found in versions of FishEye and Crucible from 2.0 up to and including 2.7.8. You need to upgrade your existing FishEye and Crucible installations to fix these vulnerabilities. Enterprise Hosted customers should request an upgrade by raising a support request at <http://support.atlassian.com> in the "Enterprise Hosting Support" project. Neither FishEye nor Crucible in Studio and Atlassian OnDemand are vulnerable to any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerabilities listed in this advisory have been discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

In this advisory:

- [Code Injection Vulnerability](#)
 - [Severity](#)
 - [Description](#)
 - [Vulnerability](#)
 - [Risk Mitigation](#)
 - [Fix](#)

Code Injection Vulnerability

Severity

Atlassian rates the severity level of this vulnerability as **CRITICAL**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, medium or low.

Description

We have identified and fixed a code injection vulnerability in FishEye and Crucible caused by an underlying vulnerability in the **third-party** Webwork 2 framework. This vulnerability allows an attacker to run arbitrary Java code on a FishEye/Crucible server with user privileges of the FishEye/Crucible process. This vulnerability is a variant of a recently disclosed [Struts2 vulnerability](#). The vulnerability exists in FishEye and Crucible pages accessible only by users with administrative privileges. It can be exploited with use of social engineering, e.g. by having the administrator click on a specially crafted link.

The maintainer of the original library can be contacted at <http://struts.apache.org/>

Vulnerability

The table below describes the FishEye and Crucible versions and the specific functionality affected by the command injection vulnerability.

FishEye and Crucible Component	Affected FishEye and Crucible Versions	Fixed Version	Issue Tracking
WebWork 2	2.0 - 2.7.8	2.6.7 2.7.9	FE-3891

Risk Mitigation

We recommend that you upgrade your FishEye and Crucible installations to fix this vulnerability.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can restrict access to your instance of FishEye/Crucible by using a firewall.

Fix

FishEye and Crucible 2.6.7, 2.7.9 and later versions fix this issue. View the issue linked above for information on fix versions. For a full description of the latest version of FishEye and Crucible, see the [FishEye](#) and [Crucible](#) release notes. You can download the latest versions from the [FishEye](#) and [Crucible](#) download centres. There are no patches available for these issues.

FishEye and Crucible Security Advisory 2011-11-22

This advisory discloses a number of security vulnerabilities that we have found and fixed in versions of FishEye/Crucible earlier than 2.5.7. You need to upgrade your existing FishEye and Crucible installations to fix these vulnerabilities. Enterprise Hosted customers should request an upgrade by raising a support request at <http://support.atlassian.com> in the "Enterprise Hosting Support" project. Neither JIRA Studio nor Atlassian OnDemand are vulnerable to any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerabilities listed in this advisory have been discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

In this advisory:

- [XSS Vulnerabilities](#)
 - [Severity](#)
 - [Risk Assessment](#)
 - [Vulnerabilities](#)
 - [Risk Mitigation](#)
 - [Fix](#)
- [Permission Verification Vulnerabilities](#)
 - [Severity](#)
 - [Risk Assessment](#)
 - [Vulnerability](#)
 - [Risk Mitigation](#)
 - [Fix](#)

XSS Vulnerabilities

Severity

Atlassian rates the severity level of these vulnerabilities as **high**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, medium or low. These vulnerabilities are **not** critical.

Risk Assessment

We have identified and fixed a number of stored cross-site scripting (XSS) vulnerabilities which affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). XSS vulnerabilities allow an attacker to embed their own JavaScript into a FishEye/Crucible page. You can read more about XSS attacks on [Wikipedia](#), at [The Web Application Security Consortium](#) and other places on the web.

Vulnerabilities

The table below describes the FishEye/Crucible versions and the specific functionality affected by the XSS vulnerabilities.

FishEye/Crucible Feature	Affected FishEye/Crucible Versions	Fixed Version	Issue Tracking
FishEye user profile - display name	2.5.4 and earlier	2.5.5	FE-3797
FishEye user profile - snippets in a user's comment	2.5.4 and earlier	2.5.5	FE-3798

Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable [public signup](#) to your instance as a temporary mitigation until you have applied the upgrade. For tighter access control, you can restrict access to trusted [groups](#).

Fix

FishEye and Crucible 2.5.5 and later versions fix two these issues. View the issues linked above for information on fix versions. You can download the latest versions of FishEye and Crucible from the download centres ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix these vulnerabilities. You must upgrade your FishEye/Crucible installation.

Permission Verification Vulnerabilities**Severity**

Atlassian rates the severity level of these vulnerabilities as **medium**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, medium or low. These vulnerabilities are **not** critical.

Risk Assessment

We have identified and fixed two permission verification bugs which affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). These vulnerabilities allow users to view metadata for changesets and reviews, from repositories/projects that they do not have access to, via tooltips.

Vulnerability

The table below describes the FishEye/Crucible versions and the specific functionality affected by the vulnerabilities.

FishEye/Crucible Feature	Affected FishEye/Crucible Versions	Fixed Version	Issue Tracking
FishEye changeset tooltips	FishEye 2.4.6 to 2.5.6	FishEye 2.5.7	FE-3811
Crucible review tooltips	Crucible 2.4.6 to 2.5.6	Crucible 2.5.7	CRUC-5811

Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can [disable anonymous access](#) to your instance. Logged-in users will still be able to view metadata that they do not have permission to view, but anonymous users will be prevented from accessing this information.

Fix

FishEye and Crucible 2.5.7 and later versions fix these two issues. View the issues linked above for information on earlier fix versions for each issue. For a full description of this release, see the [FishEye 2.5 changelog](#) and [Crucible 2.5 Changelog](#). You can download the latest version of FishEye and Crucible from the download centres ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix these vulnerabilities. You must upgrade your FishEye/Crucible installation.

FishEye and Crucible Security Advisory 2011-05-16

This advisory announces a number of security vulnerabilities that we have found and fixed in recent versions of FishEye/Crucible. You need to upgrade your existing FishEye/Crucible installations to fix these vulnerabilities. Enterprise Hosted customers should request an upgrade by filing a ticket at <http://support.atlassian.com>. JIRA Studio is not vulnerable to any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerabilities listed in this advisory have been discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

In this advisory:

- [XSS Vulnerabilities](#)
 - [Severity](#)
 - [Risk Assessment](#)
 - [Vulnerability](#)
 - [Risk Mitigation](#)
 - [Fix](#)

XSS Vulnerabilities**Severity**

Atlassian rates the severity level of these vulnerabilities as **high**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

Risk Assessment

We have identified and fixed a number of cross-site scripting (XSS) vulnerabilities which may affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). XSS vulnerabilities potentially allow an attacker to embed their own JavaScript into a FishEye/Crucible page. You can read more about XSS attacks at cgisecurity.com, [The Web Application Security Consortium](http://www.wisecoders.com) and other places on the web.

Vulnerability

The table below describes the FishEye/Crucible versions and the specific functionality affected by the XSS vulnerabilities.

FishEye/Crucible Feature	Affected FishEye/Crucible Versions	Issue Tracking
Crucible snippets	Crucible 2.4.5 to 2.5.0	CRUC-5734
Crucible author mapping	Crucible 2.4.5 to 2.5.0	CRUC-5735
Crucible changeset comments in search results	Crucible 2.3.0 to 2.5.0	CRUC-5736
Crucible comments search	Crucible 2.2.6 to 2.5.0	CRUC-5737
FishEye/Crucible dashboard - review activity	FishEye/Crucible 2.2.8 to 2.5.2	FE-3031
FishEye/Crucible reviews list	FishEye/Crucible 2.2.8 to 2.5.2	FE-3032

Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable [public signup](#) to your instance until you have applied the upgrade. For even tighter control, you could restrict access to trusted [groups](#).

Fix

FishEye/Crucible 2.5.4 fixes all of these issues. View the issues linked above for information on earlier fix versions for each issue. For a full description of this release, see the [FishEye 2.5 changelog](#) and [Crucible 2.5 Changelog](#). You can download the latest version of FishEye/Crucible from the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix these vulnerabilities. You must upgrade your FishEye/Crucible installation.

Our thanks to **Marian Ventuneac** of <http://www.ventuneac.net>, who reported [FE-3031](#) and [FE-3032](#). We fully support the reporting of vulnerabilities and we appreciate it when people work with us to identify and solve the problem.

FishEye and Crucible Security Advisory 2011-01-12

This advisory announces a number of security vulnerabilities that we have found and fixed in recent versions of FishEye/Crucible. You need to upgrade your existing FishEye/Crucible installations to fix these vulnerabilities. Enterprise Hosted customers should request an upgrade by filing a ticket at <http://support.atlassian.com>. JIRA Studio is not vulnerable to any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerabilities listed in this advisory have been discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

In this advisory:

- [XSS Vulnerabilities](#)
 - [Severity](#)
 - [Risk Assessment](#)
 - [Vulnerability](#)
 - [Risk Mitigation](#)
 - [Fix](#)
- [Administration password logged in debug log](#)
 - [Severity](#)
 - [Risk Assessment](#)
 - [Vulnerability](#)
 - [Risk Mitigation](#)
 - [Fix](#)
- [Review comment search returns comments that a user has no permission to view](#)
 - [Severity](#)
 - [Risk Assessment](#)
 - [Vulnerability](#)
 - [Risk Mitigation](#)
 - [Fix](#)
- [Anonymous global access exposes entire user list](#)
 - [Severity](#)
 - [Risk Assessment](#)
 - [Vulnerability](#)
 - [Risk Mitigation](#)
 - [Fix](#)

XSS Vulnerabilities

Severity

Atlassian rates the severity level of these vulnerabilities as **high**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

Risk Assessment

We have identified and fixed a number of cross-site scripting (XSS) vulnerabilities which may affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). XSS vulnerabilities potentially allow an attacker to embed their own JavaScript into a FishEye/Crucible page. You can read more about XSS attacks at cgisecurity.com, [The Web Application Security Consortium](#) and other places on the web.

Vulnerability

The table below describes the FishEye/Crucible versions and the specific functionality affected by the XSS vulnerabilities.

FishEye/Crucible Feature	Affected FishEye/Crucible Versions	Issue Tracking
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Crucible review – linked JIRA issue	Crucible 2.0.1 – 2.3.7	CRUC-5307
Crucible email reviews	Crucible 2.2.0 – 2.4.0	CRUC-5308
Crucible review reload	Crucible 2.2.0 – 2.4.2	CRUC-5309
Crucible edit review details screen	Crucible 2.2.0 – 2.3.7	CRUC-5345
FishEye repository configuration	FishEye 2.4.0	CRUC-5310
FishEye charts	FishEye 2.2.0 - 2.4.0	CRUC-5311
FishEye/Crucible code macro	FishEye/Crucible 2.2.0 – 2.4.0	CRUC-5312
FishEye/Crucible changeset page heading	FishEye/Crucible 2.3.2 – 2.4.0	CRUC-5313

Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable [public signup](#) to your instance until you have applied the upgrade. For even tighter control, you could restrict access to trusted [groups](#).

Fix

FishEye/Crucible 2.4.4 fixes all of these issues. View the issues linked above for information on earlier fix versions for each issue. For a full description of this release, see the [FishEye 2.4 changelog](#) and [Crucible 2.4 Changelog](#). You can download the latest version of FishEye/Crucible from the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix these vulnerabilities. You must upgrade your FishEye/Crucible installation.

Administration password logged in debug log

Severity

Atlassian rates the severity level of these vulnerabilities as **high**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

Risk Assessment

We have identified and fixed a vulnerability in the FishEye/Crucible logging which may affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). This vulnerability allows administrator passwords to be logged in clear text when debug logging is enabled.

Vulnerability

This vulnerability affects FishEye and Crucible 2.2.0 to 2.4.0.

Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable access logging. See [Enabling Access Logging in FishEye](#) and [Enabling Access Logging in Crucible](#). You can also apply file restrictions to your log files. Note, this issue only occurs when DEBUG logging is turned on (off by default) when an administrator logs in.

Fix

FishEye/Crucible 2.4.2 and later fix this issue. For a full description of this release, see the [FishEye 2.4 changelog](#) and [Crucible 2.4 Changelog](#). You can download the latest version of FishEye/Crucible from the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix this vulnerability. You must upgrade your FishEye/Crucible installation.

Review comment search returns comments that a user has no permission to view

Severity

Atlassian rates the severity level of these vulnerabilities as **medium**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

Risk Assessment

We have identified and fixed a vulnerability in the Crucible review comment search which may affect Crucible instances, including publicly available instances (that is, internet-facing servers). This vulnerability allows review comments to be displayed for projects that are not publicly viewable.

Vulnerability

This vulnerability affects Crucible 2.2.0 to 2.4.3.

Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Fix

FishEye/Crucible 2.2.5, 2.3.8 and 2.4.4 fix this issue. For a full description of this release, see the [FishEye 2.4 changelog](#) and [Crucible 2.4 Changelog](#). You can download these versions of FishEye/Crucible via the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix this vulnerability. You must upgrade your FishEye/Crucible installation.

Anonymous global access exposes entire user list

Severity

Atlassian rates the severity level of these vulnerabilities as **medium**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

Risk Assessment

We have identified and fixed a vulnerability in the FishEye/Crucible anonymous global access which may affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). This vulnerability exposes the user list (usernames and emails) of a FishEye/Crucible instance for access when anonymous global access is enabled.

Vulnerability

This vulnerability affects FishEye and Crucible 2.2.0 to 2.4.3.

Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.


Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable global anonymous access. See [Configuring Anonymous Access](#).

Fix

FishEye/Crucible 2.2.6, 2.3.8 and 2.4.4 fix this issue. For a full description of this release, see the [FishEye 2.4 changelog](#) and [Crucible 2.4 Changelog](#). You can download these versions of FishEye/Crucible via the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix this vulnerability. You must upgrade your FishEye/Crucible installation.

Crucible Security Advisory 2010-06-16

 The 2.3.3 release of Crucible contains some security related fixes, which are part of the shared FishEye architecture. The following information for FishEye applies equally to Crucible.

The [Crucible Download Centre](#) has the updates for Crucible.

In this advisory:

- [Remote Code Exploit Vulnerability](#)
 - [Severity](#)
 - [Risk Assessment](#)
 - [Vulnerability](#)
 - [Risk Mitigation](#)
 - [Fix](#)
- [Download Patches for Earlier FishEye / Crucible Versions](#)
 - [Patch for FishEye / Crucible 2.3.2](#)
 - [Patch for FishEye / Crucible 2.2.3](#)

Remote Code Exploit Vulnerability**Severity**

Atlassian rates this vulnerability as **critical**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank a vulnerability as critical, high, moderate or low.

Risk Assessment

We have identified and fixed a remote code exploit vulnerability which affects FishEye and Crucible instances.

Vulnerability

This vulnerability allows a motivated attacker to call remote code on the host server.

All versions of FishEye/Crucible up to version 2.3.2 are affected by this vulnerability.

Affected FishEye Versions	Fix Availability	More Details	Severity
All versions up to and including 2.3.2.	2.3.3 update, also available as patches for 2.3.2 and 2.2.3.	This vulnerability allows a motivated attacker to call remote code on the host server.	Critical

This vulnerability has been discovered in XWork by OpenSymphony, a command pattern framework which is used by FishEye and Crucible.

About the XWork Framework:

- See the [OpenSymphony XWork page](#) for more information about XWork.

Risk Mitigation

We strongly recommend either upgrading or patching your FishEye/Crucible installation to fix this vulnerability. Please see the 'Fix' section below.

Fix


These issues have been fixed in FishEye 2.3.3 (see the [changelog](#)), which you can download from the [download centre](#).

It has also been fixed in Crucible 2.3.3 (see the [changelog](#)), which you can download from the [download centre](#).

Later versions will include protection from this vulnerability.

This fix is also provided as a patch for FishEye/Crucible 2.3.2 and 2.2.3, which you can download from [links on this page](#). Customers on earlier point versions of FishEye/Crucible will have to upgrade to version 2.3.2 or 2.2.3 before applying the patch. Atlassian recommends you upgrade to FishEye/Crucible 2.3.3.

Download Patches for Earlier FishEye / Crucible Versions

 These patch releases contain security fixes, which apply to the shared FishEye architecture that is the basis of both FishEye and Crucible.

Please note that these patches are for specific point versions of FishEye (2.3.2 and 2.2.3). If you are running an earlier version than these, you will need to upgrade to a version specifically addressed by one of these patches. Atlassian strongly recommends that you upgrade to [FishEye 2.3.3](#) / [Crucible 2.3.3](#) or later.

[MD5 checksums](#) are provided to allow verification of the downloaded files.

Patch for FishEye / Crucible 2.3.2


File	FishEye / Crucible Version	Release Date	MD5 Checksum
fisheye-crucible-2.3.2-patch1.zip	2.3.2	16th June, 2010	6fe98db821a6d26f26907688af2ccd84

Patch for FishEye / Crucible 2.2.3

File	FishEye / Crucible Version	Release Date	MD5 Checksum
fisheye-crucible-2.2.3-patch1.zip	2.2.3	16th June, 2010	6fe98db821a6d26f26907688af2ccd84

Our thanks to **Meder Kydyraliev** of the **Google Security Team** who discovered this vulnerability. Atlassian [fully supports the reporting of vulnerabilities](#) and appreciates it when people work with Atlassian to identify and solve the problem.

Crucible Security Advisory 2010-05-04

 The 2.2.3 release of Crucible contains some security related fixes, which are part of the shared FishEye architecture. The following information for FishEye applies equally to Crucible.

The [Crucible Download Centre](#) has the updates for Crucible.

In this advisory:

- [Admin Escalation Vulnerability](#)
 - [Severity](#)
 - [Risk Assessment](#)
 - [Vulnerability](#)
 - [Risk Mitigation](#)
 - [Fix](#)
- [XSS Vulnerabilities in FishEye](#)
 - [Severity](#)
 - [Risk Assessment](#)
 - [Vulnerability](#)
 - [Risk Mitigation](#)
 - [Fix](#)
- [Prevention of Brute Force Attacks](#)
 - [Severity](#)
 - [Risk Assessment](#)
 - [Vulnerability](#)
 - [Risk Mitigation](#)
 - [Fix](#)
- [Changed Behaviour in FishEye](#)
- [Download Patches for Earlier FishEye / Crucible Versions](#)
 - [Patch for FishEye / Crucible 2.1.4](#)
 - [Patch for FishEye / Crucible 2.0.6](#)
 - [Patch for FishEye 1.6.6](#)
 - [Patch for Crucible 1.6.6](#)

Admin Escalation Vulnerability

Severity

Atlassian rates this vulnerability as **critical**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank a vulnerability as critical, high, moderate or low.

Risk Assessment

We have identified and fixed an admin escalation vulnerability, which affects FishEye instances. This vulnerability has security implications and is especially important for anyone running publicly accessible instances of FishEye.

Vulnerability

This vulnerability allows a motivated attacker to perform admin actions.


All versions of FishEye from version 1.6.0-beta2 (including 1.6.0) through to 2.2.1 are affected by these admin escalation vulnerabilities.

Affected FishEye Versions	Fix Availability	More Details	Severity
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All versions up to and including 2.2.1	2.2.3 update, also available as patches for certain versions, listed on this page .	This vulnerability allows a motivated attacker to perform admin actions.	Critical
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Risk Mitigation

We strongly recommend either upgrading or patching your FishEye installation to fix this vulnerability. Please see the 'Fix' section below.

 Note: If you are an Atlassian JIRA Studio customer, we have assessed that your system is secure and implemented additional protections for it.

Fix

These issues have been fixed in FishEye 2.2.3 (see the [changelog](#)), which you can download from the [download centre](#). Later versions will include protection from this vulnerability.

This fix is also provided as a patch for FishEye 2.1.4, 2.0.6 and 1.6.6, which you can download from [this page](#). Customers on earlier point versions of FishEye will have to upgrade to version 2.1.4, 2.0.6 or 1.6.6 before applying the patch. We recommend you upgrade to FishEye 2.2.3.

XSS Vulnerabilities in FishEye

Severity

Atlassian rates these vulnerabilities as **critical**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank a vulnerability as critical, high, moderate or low.

Risk Assessment

We have identified and fixed several cross-site scripting (XSS) vulnerabilities in FishEye, which may affect FishEye instances. These vulnerabilities have security implications and are especially important for anyone running publicly accessible instances of FishEye.

- The attacker might take advantage of the vulnerability to steal other users' session cookies or other credentials, by sending the credentials back to the attacker's own web server.
- The attacker's text and script might be displayed to other people viewing a FishEye page. This is potentially damaging to your company's reputation.

You can read more about XSS attacks at [cgisecurity](#), [CERT](#) and other places on the web.

Vulnerability

All versions of FishEye are affected by these XSS vulnerabilities.

Affected FishEye Versions	Fix Availability	More Details	Severity
---------------------------	------------------	--------------	----------

All versions up to and including 2.2.1	2.2.3 only	An attacker could take advantage of this vulnerability to steal other users' session cookies or other credentials, or the attacker's text and script might be displayed to other people viewing a FishEye page.	Critical
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Risk Mitigation

We strongly recommend upgrading your FishEye installation to fix these vulnerabilities. Please see the 'Fix' section below.

Fix

These issues have been fixed in FishEye 2.2.3 (see the [changelog](#)), which you can download from the [download centre](#).

Prevention of Brute Force Attacks**Severity**

Atlassian rates this vulnerability as **moderate**, according to the scale published in [Severity Levels for Security Issues](#).

Risk Assessment

We have improved the security of the following areas in FishEye:

- Prevention of brute force attacks by requiring users to solve a [CAPTCHA](#) test after a maximum number of repeated login attempts.

Vulnerability

We have identified and fixed a problem where FishEye allows an unlimited number of repeated login attempts, potentially opening FishEye to a brute force attack. Details of this improvement are summarised below.

Affected FishEye Versions	Fix Availability	More Details	Severity
All versions up to and including 2.2.1	2.2.3 only	FishEye allows an unlimited number of login attempts. This makes FishEye vulnerable to a brute force attack.	Moderate

Risk Mitigation

We recommend that you upgrade your FishEye installation to fix these vulnerabilities. Please see the 'fix' section [below](#).

You can also prevent brute force attacks by following our guidelines on [using Fail2Ban to limit login attempts](#).

Fix

This issue has been fixed in FishEye 2.2.3 (see the [changelog](#)). Later versions will include protection from this vulnerability. You can download FishEye 2.2.3 from the [download centre](#).

Changed Behaviour in FishEye

In order to fix these issues, we have changed FishEye's behaviour as follows:

- After three consecutive failed login attempts, FishEye will display a **CAPTCHA** form asking the user to enter a given word when attempting to log in again. This will prevent brute force attacks via the login screen. The number of failed attempts needed to trigger the **CAPTCHA** testing is configurable. For more information, see the documentation for [Brute force login protection](#).



In addition, after three consecutive failed login attempts via the FishEye remote API, an error message will be returned. Human intervention will then be required to reset that login account, i.e. solve the **CAPTCHA** test via the login screen.

Download Patches for Earlier FishEye / Crucible Versions

These patch releases contain security fixes, which apply to the shared FishEye architecture that is the basis of both FishEye and Crucible.

These patches fix the Admin Escalation vulnerability only. Please note that these patches are for specific older point versions of FishEye (2.1.4, 2.0.6 or 1.6.6). If you are running an earlier version than these, you will need to upgrade to a version specifically addressed by one of these patches. To update a more recent version of the product (2.1.5 through 2.2.1), please upgrade to FishEye 2.2.3 or later. Atlassian strongly recommends that you [upgrade to FishEye 2.2.3](#) or later.

[MD5 checksums](#) are provided to allow verification of the downloaded files.

Patch for FishEye / Crucible 2.1.4

File	FishEye / Crucible Version	Release Date	MD5 Checksum
fisheye-crucible-2.1.4-patch1.zip	2.1.4	4th May, 2010	6062fa2e1ad93729527357fb97b0d2ea

Patch for FishEye / Crucible 2.0.6

File	FishEye / Crucible Version	Release Date	MD5 Checksum
fisheye-crucible-2.0.6-patch1.zip	2.0.6	4th May, 2010	6aae75e2a5308121887bf9532473cf75

Patch for FishEye 1.6.6

File	FishEye Version	Release Date	MD5 Checksum
fisheye-1.6.6-patch1.zip	1.6.6	4th May, 2010	210ef3358aff83861733f8f22d331d7e

Patch for Crucible 1.6.6

File	Crucible Version	Release Date	MD5 Checksum
crucible-1.6.6-patch1.zip	1.6.6	4th May, 2010	48e8e8ada0ddb3fc8671 459051df1120

i To acquire all of the fixes on this page, upgrade to [FishEye 2.2.3](#), which you can download from the [download centre](#).

Crucible FAQ

Crucible FAQ
<p>Answers to frequently asked questions about configuring and using Crucible.</p> <ul style="list-style-type: none"> • Crucible Resources • General FAQs <ul style="list-style-type: none"> • Can I deploy Crucible or FishEye as a WAR? • Does Crucible support SSL (HTTPS)? • How do I force reviews to include SVN property changes? • How to Automate Daily Crucible Backups • Licensing FAQ <ul style="list-style-type: none"> • What happens if I decide to stop using FishEye with Crucible • Do I need a FishEye licence to run Crucible? • Advantages of Native Repository Access over lightSCM plugins • Support Policies <ul style="list-style-type: none"> • Bug Fixing Policy • How to Report a Security Issue • New Features Policy • Patch Policy • Security Advisory Publishing Policy • Security Patch Policy • Severity Levels for Security Issues • Troubleshooting <ul style="list-style-type: none"> • Crucible freezes unexpectedly • JIRA Integration Issues • Problems with very long comments and MySQL migration • Contributing to the Crucible Documentation <ul style="list-style-type: none"> • Tips of the Trade • Crucible Documentation in Other Languages

i Most setup issues are likely to be related to the FishEye component of Crucible. Refer to the [FishEye documentation](#):

- [FishEye documentation](#)
- [FishEye FAQs](#)
- [Top Evaluator Questions](#)
 - [Can Crucible add support for new repositories?](#)
 - [Can I purchase Crucible on it's own?](#)
 - [Can I trial Crucible without FishEye?](#)
 - [How can I do reviews from the file system?](#)
 - [How does Crucible help enforce compliance and auditability?](#)
 - [How do I convince my team of the benefits of code review?](#)
 - [How do I do pre-commit reviews?](#)

- [How do I raise defects in JIRA?](#)
- [How do I review patch diffs?](#)
- [What user permissions and review security is available?](#)

Do you still have a question, or need help with Crucible? Please [create a support request](#).

Crucible Resources

Resources for Evaluators

- [Free Trial](#)
- [Feature Tour](#)

Resources for Administrators

- [Crucible Knowledge Base](#)
- [Crucible FAQ](#)
- [Tips of the Trade](#)
- [Guide to Installing an Atlassian Integrated Suite](#)
- [The big list of Atlassian gadgets](#)

Downloadable Documentation

- [Crucible documentation in PDF, HTML or XML formats](#)

Plugins

- [Crucible Developer Documentation](#)
- [Add-ons for Crucible](#)

Support

- [Atlassian Support](#)
- [Support Policies](#)

Forums

- [Crucible Forum](#)
- [Crucible Developers Forum](#)

Mailing Lists

- Visit <http://my.atlassian.com> to sign up for mailing lists relating to Atlassian products, such as technical alerts, product announcements and developer updates.

Feature Requests

- [Issue Tracker and Feature Requests for Crucible](#)

General FAQs

Crucible General FAQs
<ul style="list-style-type: none">• Can I deploy Crucible or FishEye as a WAR? — Unfortunately FishEye and Crucible cannot be deployed as a WAR.• Does Crucible support SSL (HTTPS)?• How do I force reviews to include SVN property changes?• How to Automate Daily Crucible Backups — Configuring Crucible backups is easy.

Can I deploy Crucible or FishEye as a WAR?

Unfortunately FishEye and Crucible cannot be deployed as a WAR. FishEye has some special needs for performance reasons that are not easily supported on third-party containers. Whilst this is an often requested feature, there are no immediate plans to provide a WAR version of FishEye or FishEye+Crucible. However the upcoming separate edition of Crucible (i.e. without FishEye) may at some stage be available as a WAR.

Does Crucible support SSL (HTTPS)?

Crucible does not have any built-in support for running over SSL via the HTTPS protocol. However, it is possible to setup a proxy web server to forward requests to Crucible. Please see the page on [Integrating with Other Web Servers](#).

How do I force reviews to include SVN property changes?

Subversion (SVN) allows users to store arbitrary name/value pairs associated with files and directories, called SVN properties. These properties can be used by users for storing metadata and are also used by Subversion (e.g. for storing where code is branched from)

These name/value pairs can only be changed as part of a changeset / commit in Subversion. As such, you will have changesets with purely changes to SVN properties, or changesets with a mix of textual changes and changes to SVN properties. Crucible 2.6 introduced [review creation without metadata](#) to prevent SVN properties from being included in reviews.

This functionality is enabled by default, and affects the following functionality:

- Creating a review — The "Create Review" link is disabled in the activity stream, dashboard and changeset page for any changeset where all the file revisions only differ by SVN properties.
- Adding content to a review — SVN property-only changesets cannot be added to the review from the 'Add Content' dialog. Changesets with a mix of SVN property changes and textual changes can be added to the review, however only the file revisions with textual changes are added. File revisions with both textual changes and SVN property changes are always added.
(Note, explicitly adding a particular file revision to a review is still permitted, regardless of whether it is a textual change or metadata-only change.)

The prime motivation behind the metadata checking is to prevent the creation of reviews with a large number of files which have no effective content changes. Sometimes this sort of problem is seen when there is some wholesale SVN property change - e.g. setting the line endings on all files (`svn:eol-style`). In that respect, this is a performance setting as it avoids the creation of large reviews. The properties themselves are still stored and managed in FishEye. There is no major performance impact on including properties in reviews.

Disabling this functionality can be done by starting up Crucible with the following system property:

```
-Dcrucible.detect.metadata.revision.changes=false
```

How to Automate Daily Crucible Backups

Configuring Crucible backups is easy. To set daily Crucible backups, open the administration page, click the 'Backup' link under 'System' on the left navigation bar, and simply follow the instructions set out on the [Backing up and restoring Crucible data](#) page.

Licensing FAQ

Crucible Licensing FAQ

- [What happens if I decide to stop using FishEye with Crucible](#) — Crucible can be run as an application alone, without FishEye. However, if you decide to stop using FishEye with Crucible, you will lose certain functionality and will need to make configuration changes.
- [Do I need a FishEye licence to run Crucible?](#) — FishEye and Crucible are separate products. They can be run separately, and they can also be run together.
- [Advantages of Native Repository Access over lightSCM plugins](#)

What happens if I decide to stop using FishEye with Crucible

Crucible can be run as an application alone, without FishEye. However, if you decide to stop using FishEye with Crucible, you will lose certain functionality and will need to make configuration changes.

On this page:

- [How do I run Crucible without FishEye?](#)
- [How is Crucible without FishEye different from using Crucible with FishEye?](#)
 - [Conducting Reviews](#)
 - [Viewing Repositories/Files](#)
 - [Charts](#)
- [Can I still use lightSCM plugins with Crucible?](#)


How do I run Crucible without FishEye?

- **Have a valid Crucible license but not a FishEye license**

To run Crucible without FishEye you need to have a **valid Crucible license but not a FishEye license** or if you want to disable FishEye enter `Disabled` in the license field. Crucible standalone will actually use a "light" mode of FishEye that comes pre-bundled and does not need to be installed separately. For more information on Crucible with light FishEye, see [How is Crucible without FishEye different from using Crucible with FishEye?](#) below.

- **No need to reconnect your repositories**

Any repositories that you have currently defined in FishEye will not be visible in Crucible after removing FishEye (no more `Source` tab). The repositories however, will continue to update as usual without any intervention. You can add additional repositories as described in the [FishEye documentation](#). Note, all [repositories supported in FishEye](#) are supported in light FishEye.

 *Legacy "lightSCM" plugins, like the [Crucible Subversion SCM plugin](#), will still work. However, the functionality will be limited compared to using Crucible with light FishEye. See the [Can I still use lightSCM plugins with Crucible?](#) section below for more information.*

How is Crucible without FishEye different from using Crucible with FishEye?

The following changes in functionality will occur if you use Crucible without FishEye (i.e. use Crucible with "light" FishEye).

Conducting Reviews

- When using [Iterative reviews](#) in Crucible, you will not be prompted when a new version of a file is available.

Viewing Repositories/Files

- Files and changesets displayed in activity streams (e.g. the [dashboard activity stream](#)) will not render as links to the relevant files/changesets.
- You will not be able to see your content roots and repositories associated with projects.
- You will no longer be able to see [repository lists](#) and [browse repositories](#) using the '**Source**' tab.

Charts

- You will not be able to [view charts or code metrics](#).

Can I still use lightSCM plugins with Crucible?

Legacy "lightSCM" plugins, like the [Crucible Subversion SCM plugin](#), will still work with Crucible. However, we

recommend that you use the "light" FishEye implementation that is bundled with Crucible, as it supersedes the lightSCM plugins.

For more information, please read this FAQ: [Advantages of Native Repository Access over lightSCM plugins](#).

Do I need a FishEye licence to run Crucible?

FishEye and Crucible are separate products. They can be run separately, and they can also be run together.

We recommend that you run Crucible together with FishEye. If you choose to run Crucible alone without FishEye, you will have access to your repositories via the "light" FishEye implementation bundled with Crucible. However, a number of FishEye's advanced features will not be available to you, including [pre-caching repository content](#) (for improved performance), the ability to search and browse through repositories and FishEye's activity graphs.

For more information, please read the following FAQ: [What happens if I decide to stop using FishEye with Crucible](#)


Advantages of Native Repository Access over lightSCM plugins

Prior to Crucible 2.4, running Crucible without FishEye required the use of "lightSCM" plugins (like the [Crucible Subversion SCM plugin](#)). From version 2.4, Crucible provides native repository access which supersedes Crucible's bundled lightSCM plugins. Third-party lightSCM plugins are unaffected and will continue to work with Crucible. The bundled plugins will still be available, so your existing configurations will also continue to work unchanged.

If you are currently using any of the bundled lightSCM plugins, we recommend that you migrate to using native repository access for the following reasons:

- Atlassian's lightSCM plugins (not lightSCM itself) are being deprecated, i.e. we will not update any of the bundled lightSCM plugins after the 2.4 release.
- It is easier for us to support and maintain a single implementation of our SCM interfaces, rather than support the standard FishEye access and the lightSCM implementations.
- Native repository access provides full support for SCMs for which there are no current lightSCM plugin implementations, including CVS and Mercurial.
- Native repository access provides additional functionality that is not available in the lightSCM plugins including:
 - Viewable commits in the activity streams (e.g. the [dashboard activity stream](#)).
 - Repositories administration via the [administration console](#).
 - Easier review creation due to the ability to search and browse the repository using the full power of FishEye. For example, browsing for a file to add to a new review (see [Adding content to the review](#)).
- Improved performance of native repository access over the lightSCM plugins. The lightSCM plugins retrieve data on demand from the underlying repository, rather than using caches and indexes like FishEye and native repository access. Hence, Crucible with native repository access, whilst requiring an initial indexing phase, will be faster than Crucible with lightSCM plugins during day-to-day operations.
- Native repository access allows for migration to a full FishEye license in future, if desired. Your repositories can simply be re-indexed for full FishEye functionality and existing reviews will then be available on the full repository.

To change over from lightSCM plugins to native repository access:

1. Disable your lightSCM plugins via the Crucible Administration Console ('**Plugins**' link under the 'Systems Settings' section in the left menu).
 Do not disable the SCM plugins for connecting to a [Confluence instance](#) or a [file system](#). Native repository access does not include functionality to connect these (nor does FishEye alone), hence you will still need to use plugins.
2. Add native repositories for any repositories that are currently connected via lightSCM plugins. See the [Fis](#)

[hEye documentation](#).

3. If you are using Subversion or Perforce, we recommend that you set a "start" revision for the changeover, unless you need to review old code. This will eliminate the need for native repository support to index old repository activity, getting you up and running quickly.

Support Policies

Welcome to the support policies index page. Here, you'll find information about how Atlassian Support can help you and how to get in touch with our helpful support engineers. Please choose the relevant page below to find out more.

- [Bug Fixing Policy](#)
- [How to Report a Security Issue](#)
- [New Features Policy](#)
- [Patch Policy](#)
- [Security Advisory Publishing Policy](#)
- [Security Patch Policy](#)
- [Severity Levels for Security Issues](#)

To request support from Atlassian, please raise a support issue in our online support system. To do this, visit support.atlassian.com, log in (creating an account if need be) and create an issue under Crucible. Our friendly support engineers will get right back to you with an answer.

Bug Fixing Policy

Summary

- Atlassian Support will help with workarounds and bug reporting.
- Critical bugs will generally be fixed in the next maintenance release.
- Non critical bugs will be scheduled according to a variety of considerations.



Raising a Bug Report

Atlassian Support is eager and happy to help verify bugs — we take pride in it! Please open a support request in our [support system](#) providing as much information as possible about how to replicate the problem you are experiencing. We will replicate the bug to verify, then lodge the report for you. We'll also try to construct workarounds if they're possible.

Customers and plugin developers are also welcome to open bug reports on our issue tracking systems directly. Use <http://jira.atlassian.com> for the stand-alone products and <http://studio.atlassian.com> for JIRA Studio and Atlassian OnDemand.

When raising a new bug, you should rate the priority of a bug according to our [JIRA usage guidelines](#). Customers [should watch](#) a filed bug in order to receive e-mail notification when a "Fix Version" is scheduled for release.

How Atlassian Approaches Bug Fixing

Maintenance (bug fix) releases come out more frequently than major releases and attempt to target the most critical bugs affecting our customers. The notation for a maintenance release is the final number in the version (ie the 1 in 3.0.1).

If a bug is critical (production application down or major malfunction causing business revenue loss or high numbers of staff unable to perform their normal functions) then it will be fixed in the next maintenance release provided that:

- The fix is technically feasible (i.e. it doesn't require a major architectural change).
- It does not impact the quality or integrity of a product.

For non-critical bugs, the developer assigned to fixing bugs prioritises the non-critical bug according to these factors:

- How many of our supported configurations are affected by the problem.
- Whether there is an effective workaround or patch.
- How difficult the issue is to fix.
- Whether many bugs in one area can be fixed at one time.

The developers responsible for bug fixing also monitor comments on existing bugs and new bugs submitted in JIRA, so you can provide feedback in this way. We give high priority consideration to [security issues](#).

When considering the priority of a non-critical bug we try to determine a 'value' score for a bug which takes into account the severity of the bug from the customer's perspective, how prevalent the bug is and whether roadmap features may render the bug obsolete. We combine this with a complexity score (i.e. how difficult the bug is). These two dimensions are used when developers self serve from the bug pile.

Further reading

See [Atlassian Support Offerings](#) for more support-related information.


How to Report a Security Issue

Finding and Reporting a Security Vulnerability

If you find a security bug in the product, please open an issue on <http://jira.atlassian.com> in the relevant project.

- Set the priority of the bug to 'Blocker'.
- Provide as much information on reproducing the bug as possible.
- Set the security level of the bug to 'Developer and Reporters only'.

All communication about the vulnerability should be performed through JIRA, so that Atlassian can keep track of the issue and get a patch out as soon as possible.

 If you discover a security vulnerability, please attempt to create a test case that proves this vulnerability locally before opening either a bug or a support issue. When creating an issue, please include information on how the vulnerability can be reproduced; see our [Bug Fixing Policy](#) for general bug reporting guidelines. We will prioritise fixing the reported vulnerability if your report has information on how the vulnerability can be exploited.

Further reading

See [Atlassian Support Offerings](#) for more support-related information.

New Features Policy

Summary

- We encourage and display customer comments and votes openly in our issue tracking system, <http://jira.atlassian.com>.
- We do not publish roadmaps.
- Product Managers review our most popular voted issues on a regular basis.
- We schedule features based on a variety of factors.
- Our [Atlassian Bug Fixing Policy](#) is distinct from our Feature Request process.
- Atlassian provides consistent updates on the top 20 feature/improvement requests (in our issue tracker systems).

How to Track what Features are Being Implemented

When a new feature or improvement is scheduled, the 'fix-for' version will be indicated in the JIRA issue. This happens for the upcoming release only. We maintain roadmaps for more distant releases internally, but because these roadmaps are often pre-empted by changing customer demands, we do not publish them.

How Atlassian Chooses What to Implement

In every [major release](#) we *aim* to implement highly requested features, but it is not the only determining factor. Other factors include:

- **Customer contact:** We get the chance to meet customers and hear their successes and challenges at Atlassian Summit, Atlassian Unite, developer conferences, and road shows.
- **Customer interviews:** All product managers at Atlassian do customer interviews. Our interviews are not simply to capture a list of features, but to understand our customers' goals and plans.
- **Community forums:** There are large volumes of posts on [answers](#), of votes and comments on [jira.atlassian.com](#), and of conversations on community forums like groups on LinkedIn.
- **Customer Support:** Our support team provides clear insights into the issues that are challenging for customers, and which are generating the most calls to support
- **Atlassian Experts:** Our [Experts](#) provide insights into real-world customer deployments, especially for customers at scale.
- **Evaluator Feedback:** When someone new tries our products, we want to know what they liked and disliked and often reach out to them for more detail.
- **In product feedback:** The [JIRA Issue Collectors](#) that we embed our products for evaluators and our Early Access Program give us a constant pulse on how users are experiencing our product.
- **Usage data:** Are customers using the features we have developed?
- **Product strategy:** Our long-term strategic vision for the product.

How to Contribute to Feature Development

Influencing Atlassian's release cycle

We encourage our customers to vote on feature requests in JIRA. The current tally of votes is available online in our issue tracking system, <http://jira.atlassian.com>. Find out if your improvement request [already exists](#). If it does, please vote for it. If you do not find it, [create a new feature or improvement request](#) online.

Extending Atlassian Products

Atlassian products have powerful and flexible extension APIs. If you would like to see a particular feature implemented, it may be possible to develop the feature as a plugin. Documentation regarding the [plugin APIs](#) is available. Advice on extending either product may be available on the user mailing-lists, or at [Atlassian Answers](#).

If you require significant customisations, you may wish to get in touch with our [partners](#). They specialise in extending Atlassian products and can do this work for you. If you are interested, please [contact us](#).

Further reading

See [Atlassian Support Offerings](#) for more support-related information.

Patch Policy

Patch Policy

Atlassian will only provide software patches in extremely unusual circumstances. If a problem has been fixed in a newer release of the product, Atlassian will request that you upgrade your instance to fix the issue. If it is deemed necessary to provide a patch, a patch will be provided for the current release and the last maintenance release of the last major version only.

Patches are issued under the following conditions:

- The bug is critical (production application down or major malfunction causing business revenue loss or high numbers of staff unable to perform their normal functions).
- AND
- A patch is technically feasible (i.e., it doesn't require a major architectural change)
- OR
- The issue is a security issue, and falls under our [Security Patch Policy](#).

Atlassian does not provide patches for non-critical bugs.

Provided that a patch does not impact the quality or integrity of a product, Atlassian will ensure that patches supplied to customers are added to the next maintenance release. Customers [should watch](#) a filed bug in order to receive e-mail notification when a "Fix Version" is scheduled for release.

Patches are generally attached to the relevant <http://jira.atlassian.com> issue.

Further reading

See [Atlassian Support Offerings](#) for more support-related information.

Security Advisory Publishing Policy

Publication of Security Advisories

When a [critical severity](#) security vulnerability in an Atlassian product is discovered and resolved, Atlassian will inform customers through the following mechanisms:

- We will post a security advisory in the latest documentation of the affected product at the same time as releasing a fix for the vulnerability.
- We will send a copy of all posted security advisories to the **'Technical Alerts' mailing list** for the product concerned.
Note: To manage your email subscriptions and ensure you are on this list, please go to my.atlassian.com and click 'Communications Centre' near the top right of the page.
- If the person who reported the vulnerability wants to publish an advisory through some other agency, such as [CERT](#), we will assist in the production of that advisory and link to it from our own.

If you want to track non-critical severity security vulnerabilities, you need to monitor the issue trackers for the relevant products on <http://jira.atlassian.com>. For example, <https://jira.atlassian.com/browse/JRA> for JIRA and <https://jira.atlassian.com/browse/CONF> for Confluence. Security issues in trackers will be marked with a "security" label. All security issues will be listed in the release notes of the release where they have been fixed, similar to other bugs.

One of the ways to monitor updates to security issues is subscribing to the results of a [sample search](#) via email or RSS.

Further reading

See [Atlassian Support Offerings](#) for more support-related information.

Security Patch Policy

Product Security Patch Policy

Atlassian makes it a priority to ensure that customers' systems cannot be compromised by exploiting vulnerabilities in Atlassian products.

Scope

This page describes when and how we release security patches and security upgrades for our products. It does

not describe the whole of disclosure process that we follow. It also excludes OnDemand, since OnDemand will always be patched by Atlassian without additional notifications.

Critical vulnerabilities

When a **Critical** security vulnerability is discovered by Atlassian or reported by a third party, Atlassian will do all of the following:

- Issue a new, fixed release for the current version of the affected product as soon as possible, usually in a few days.
- Issue a binary patch for the current release.
- Issue a binary patch for the latest maintenance release of the previous version of the product.
- Patches for older versions or releases normally will not be issued.

Patches will be attached to the relevant JIRA issue. You can use these patches as a "stop-gap" measure until you upgrade your installation in order to fully fix the vulnerability.

Non-critical vulnerabilities

When a security issue of a **High, Medium or Low** severity is discovered, Atlassian will do all of the following:

- Include the fix into the next scheduled release, both for the current and previous maintenance versions.
- Where practical, provide new versions of plugins or other components of the product that can be upgraded independently.

You should upgrade your installation in order to fix the vulnerability.

Other information

Severity level of vulnerabilities is calculated based on [Severity Levels for Security Issues](#).

Visit our general [Atlassian Patch Policy](#) as well.

Examples

Example 1: A critical severity vulnerability is found in a (hypothetical current release) JIRA 5.3.2. The last bugfix release in 5.2.x branch was 5.2.3. In this case, a patch will be created for 5.3.2 and 5.2.3. In addition, new bugfix releases, 5.3.3 and 5.2.4, which are free from this vulnerability, will be created in a few days.

Example 2: A high or medium severity vulnerability is found in the same release as in the previous example. The fix will be included into the currently scheduled releases 5.3.3 and 5.2.4. Release schedule will not be brought forward and no patches will be issued. If the vulnerability is in a plugin module, then a plugin upgrade package may still be supplied.

Further reading

See [Atlassian Support Offerings](#) for more support-related information.

Severity Levels for Security Issues

Severity Levels

Atlassian security advisories include a severity level. This severity level is based on our self-calculated CVSS score for each specific vulnerability. CVSS is an industry standard vulnerability metric. You can learn more about CVSS at [FIRST.org](#) web site.

CVSS scores are mapped into the following severity ratings:

- Critical
- High
- Medium

- Low

An approximate mapping guideline is as follows:

CVSS score range	Severity in advisory
0 – 2.9	Low
3 – 5.9	Medium
6.0 – 7.9	High
8.0 – 10.0	Critical

Below is a summary of the factors which illustrate types of vulnerabilities usually resulting in a specific severity level. Please keep in mind that this rating does not take into account details of your installation.

Severity Level: Critical

Vulnerabilities that score in the critical range usually have most of the following characteristics:

- Exploitation of the vulnerability results in root-level compromise of servers or infrastructure devices.
- The information required in order to exploit the vulnerability, such as example code, is widely available to attackers.
- Exploitation is usually straightforward, in the sense that the attacker does not need any special authentication credentials or knowledge about individual victims, and does not need to persuade a target user, for example via social engineering, into performing any special functions.

For critical vulnerabilities, is advised that you patch or upgrade as soon as possible, unless you have other mitigating measures in place. For example, if your installation is not accessible from the Internet, this may be a mitigating factor.

Severity Level: High

Vulnerabilities that score in the high range usually have some of the following characteristics:

- The vulnerability is difficult to exploit.
- Exploitation does not result in elevated privileges.
- Exploitation does not result in a significant data loss.

Severity Level: Medium

Vulnerabilities that score in the medium range usually have some of the following characteristics:

- Denial of service vulnerabilities that are difficult to set up.
- Exploits that require an attacker to reside on the same local network as the victim.
- Vulnerabilities that affect only nonstandard configurations or obscure applications.
- Vulnerabilities that require the attacker to manipulate individual victims via social engineering tactics.
- Vulnerabilities where exploitation provides only very limited access.

Severity Level: Low

Vulnerabilities in the low range typically have very little impact on an organisation's business. Exploitation of such vulnerabilities usually requires local or physical system access.

Further reading

See [Atlassian Support Offerings](#) for more support-related information.

Troubleshooting

Crucible Troubleshooting

- [Crucible freezes unexpectedly](#)
- [JIRA Integration Issues](#)
- [Problems with very long comments and MySQL migration](#) — Affects Version

Crucible Troubleshooting

The most common cause of FishEye/Crucible issues is an incorrect [symbolic setup](#) (trunk/branch/tag) for Subversion repositories. If you are using Subversion and your initial index is taking forever, double-check that your symbolic setup matches your repository.

FishEye runs with the default Java heap of 64 megabytes. This is sometimes problematic for FishEye, especially for Subversion repositories during the initial scan. You can give FishEye's JVM more memory by setting the `FISHEYE_OPTS` [environment variable](#).

Starting Crucible with the [command line options](#) `--debug --debug-perf` will print a lot of information to Crucible's logs. This can give you an insight into what is happening and possibly where you are stuck. Attach these logs along with your `config.xml` to an Atlassian support ticket, to speed up your [support request](#).

Crucible freezes unexpectedly

Issue Symptoms

If your Crucible 2.0 or 2.0.1 instance freezes unexpectedly, this could be caused by a known issue with Crucible and MySQL database technology.

This issue manifests itself in some Crucible pages returning a server timeout error. To identify the issue, check the Crucible error log. For this issue, the following output will appear in the error log:

```
2009-07-15 15:34:45,555 ERROR [btpool0-519] fisheye.app
HibernateUtil-commitTransaction - Commit fail msg-0:Could not execute
JDBC batch update
2009-07-15 15:34:45,556 ERROR [btpool0-519] fisheye.app
HibernateUtil-commitTransaction - Commit fail msg-1:Lock wait timeout
exceeded; try restarting transaction
2009-07-15 15:34:45,557 ERROR [btpool0-519] fisheye.app
HibernateUtil-commitTransaction - Commit failed rolling back.
...
...
Caused by: java.sql.BatchUpdateException: Lock wait timeout exceeded;
try restarting transaction
    at
com.mysql.jdbc.ServerPreparedStatement.executeBatch(ServerPreparedStatem
ent.java:647)
    at
com.mchange.v2.c3p0.impl.NewProxyPreparedStatement.executeBatch(NewProxy
PreparedStatement.java:1723)
    at
org.hibernate.jdbc.BatchingBatcher.doExecuteBatch(BatchingBatcher.java:4
8)
    at
org.hibernate.jdbc.AbstractBatcher.executeBatch(AbstractBatcher.java:246
)
... 163 more
```

The Crucible error log can be found under `FISHEYE_INST/var/log/fisheye-error.log.YYYY-MM-DD`.

See the [JIRA issue](#) for more information.

Workaround

Until the issue is solved, the suggested course of action is to restart your Crucible instance. This will return Crucible to normal operation.

The Crucible development team is actively working on a solution and this be part of an upcoming point release of Crucible.

Requesting Support

If you require assistance in resolving the problem, please [raise a support request](#) under the Crucible project.

JIRA Integration Issues

Users are mapped to their own accounts when using [Trusted Applications](#).

If you (or the general account used for JIRA access, if not using Trusted Applications) do not have the permissions to carry out the JIRA actions linked from Crucible, an error will occur. Depending on the error returned from JIRA, Crucible may not display the error correctly or display it at all, simply reporting that "An error has occurred". To investigate what the error was, you can access the Crucible debug log, named `fisheye-debug.log.YYYY-MM-DD` under the `dist.inst/var/log` folder of your Crucible installation. In the debug log, look for the date and time when your error took place. Here, you will be able to follow the links and see what error the JIRA instance was producing by clicking through to JIRA.

If you are using JIRA 4.0 you will not be able to create subtasks in versions of Crucible prior to 2.0.5. If you are affected by this bug, please upgrade to at least 2.0.6 (2.0.5 is affected by another bug [CRUC-2471](#)).

Problems with very long comments and MySQL migration

Affects Version


This issue was introduced in Crucible 2.0 and fixed in Crucible 2.1.

Issue Symptoms

There is a known issue with Crucible 2.0.x and very long comments when migrating your database to MySQL. In some circumstances, this might result in truncation of very long comments, causing data loss.

Depending on your MySQL configuration, you may see an error message like this while migrating to MySQL, causing the migration to fail:

```
2009-07-16 16:56:12,390 ERROR [ThreadPool1] fisheye.app
com.cenqua.crucible.actions.admin.database.DBEditHelper-doGet -
Database migration failed:
java.sql.BatchUpdateException: Data truncation: Data too long for column
'cru_message' at row 1
java.sql.BatchUpdateException: Data truncation: Data too long for column
'cru_message' at row 1
```

 You may not see the message if you are running MySQL with default settings.

For more information, see the [JIRA issue](#).

Workaround

If your data contains very long comments or review descriptions (longer than 21,845 multibyte unicode characters), consider avoiding use of MySQL until you can upgrade the product. Alternatively, use PostgreSQL

or the default (built-in) HSQLDB database.

This issue is now resolved. This issue was introduced in Crucible 2.0 and fixed in Crucible 2.1.

Requesting Support

If you require assistance in resolving the problem, please [raise a support request](#) under the Crucible project.

Contributing to the Crucible Documentation

Would you like to share your Crucible hints, tips and techniques with us and with other Crucible users? We welcome your contributions.

On this page:

- [Blogging your Technical Tips and Guides – Tips of the Trade](#)
- [Contributing Documentation in Other Languages](#)
- [Updating the Documentation Itself](#)
 - [Getting Permission to Update the Documentation](#)
 - [Our Style Guide](#)
 - [How we Manage Community Updates](#)

Blogging your Technical Tips and Guides – Tips of the Trade

Have you written a blog post describing a specific configuration of Crucible or a neat trick that you have discovered? Let us know, and we will link to your blog from our documentation. [More....](#)

Contributing Documentation in Other Languages

Have you written a guide to Crucible in a language other than English, or translated one of our guides? Let us know, and we will link to your guide from our documentation. [More....](#)

Updating the Documentation Itself

Have you found a mistake in the documentation, or do you have a small addition that would be so easy to add yourself rather than asking us to do it? You can update the documentation page directly

Getting Permission to Update the Documentation

Please submit the [Atlassian Contributor License Agreement](#).

Our Style Guide

Please read our short [guidelines for authors](#).

How we Manage Community Updates

Here is a quick guide to how we manage community contributions to our documentation and the copyright that applies to the documentation:

- **Monitoring by technical writers.** The Atlassian technical writers monitor the updates to the documentation spaces, using RSS feeds and watching the spaces. If someone makes an update that needs some attention from us, we will make the necessary changes.
- **Wiki permissions.** We use wiki permissions to determine who can edit the documentation spaces. We ask people to sign the [Atlassian Contributor License Agreement](#) (ACLA) and submit it to us. That allows us to verify that the applicant is a real person. Then we give them permission to update the documentation.
- **Copyright.** The Atlassian documentation is published under a Creative Commons CC BY license. Specifically, we use a [Creative Commons Attribution 2.5 Australia License](#). This means that anyone can copy, distribute and adapt our documentation provided they acknowledge the source of the

documentation. The CC BY license is shown in the footer of every page, so that anyone who contributes to our documentation knows that their contribution falls under the same copyright.

RELATED TOPICS

[Tips of the Trade](#)

[Author Guidelines](#)

[Atlassian Contributor License Agreement](#)

Tips of the Trade

Below are some links to external blog posts and articles containing technical tips and instructions on setting up and using Crucible. This page presents an opportunity for customers and community authors to share information and experiences.

The references here are specific to Crucible and are technical 'how to' guides written by bloggers who use Crucible. For more general information on code review solutions, best practices and business cases, please refer to the [Atlassian website](#).



Please be aware that these are external blogs and articles.

Most of the links point to external sites, and some of the information is relevant to a specific release of Crucible. Atlassian provides these links because the information is useful and relevant at the time it was written. Please check carefully whether the information is still relevant when you read it, and whether it is relevant to your version of Crucible. **Unless explicitly stated**, Atlassian does not offer support for third-party extensions or plugins. The information in the linked blog posts has not been tested or reviewed by Atlassian. We recommend that you test all solutions on a **test** server before trying them on your production site.

On this page:

- [Running Atlassian Crucible \(or Fisheye\) on Linux Startup](#)

Administration

Running Atlassian Crucible (or Fisheye) on Linux Startup

- By: Jarrod, on blog 'The stupid people made me do it!'
- About: How to get Crucible to start automatically when the server boots, via an initialisation script that runs on RedHat-like Linux boxes
- Date and Crucible version: 9 March 2009; Crucible 1.6
- Related documentation: [Running Crucible as a Windows service](#)



Have you written a technical tip for Crucible?

Add a comment to this page, linking to your blog post or article. We will include it if the content fits the requirements of this page.



Feedback?

Your first port of call should be the author of the linked blog post. If you want to let us know how useful (or otherwise) a linked post is, please add a comment to this page.

Other Sources of Information

[Crucible documentation](#)

[Atlassian website](#)

[Atlassian forums](#)

[Atlassian Blog](#)
[Crucible plugins](#)

Crucible Documentation in Other Languages

Below are some links to Crucible documentation written in other languages. In some cases, the documentation may be a translation of the English documentation. In other cases, the documentation is an alternative guide written from scratch in another language. This page presents an opportunity for customers and community authors to share documentation that they have written in other languages.



Please be aware that these are external guides.

Most of the links point to external sites, and some of the information is relevant to a specific release of Crucible. Atlassian provides these links because the information is useful and relevant at the time it was written. Please check carefully whether the information is still relevant when you read it, and whether it is relevant to your version of Crucible. The information in the linked guides has not been tested or reviewed by Atlassian.

On this page:

- [No guides yet](#)

None
No guides yet
We do not yet have any guides to link here. Be the first to suggest one!

Adding Your Own Guide to this Page

Have you written a guide for Crucible in another language? Add a comment to this page, linking to your guide. We will include it if the content fits the requirements of this page.

Giving Feedback about One of the Guides

If you have feedback on one of the guides listed above, please give the feedback to the author of the linked guide.

If you want to let us know how useful (or otherwise) one of these guides is, please add a comment to this page.

Other Sources of Information

[Crucible documentation](#)
[Atlassian website](#)
[Atlassian blog](#)
[Crucible plugins](#)

Glossary

Code review terminology can be confusing as there are many different words for the concepts, roles and process. Crucible has adopted the following terms (click for definitions):

[approve](#)

[authors in Crucible](#)

[code review](#)

[comment](#)

[creator](#)

defect

moderator

participant

permission scheme

permissions in Crucible

projects in Crucible

review duration

reviewer

role

state

statement of objective

users in Crucible

approve

Issuing a review to the reviewers is known as *approving* the review.

authors in Crucible

The *author* is the person primarily responsible for acting on the outcomes of the review. In the vast majority of cases the author will be the person who made the code change under review.

Note: to map your repository username to your FishEye/Crucible username, see [Changing your User Profile](#).

code review

Without prejudice to 'code inspection', 'peer review' or a myriad of other terms, Crucible uses the phrase *code review* for simplicity.

See [Getting Started](#).

comment

A *comment* is a short textual note that is linked to a review, revision/diff, source line, or to another comment.

See [Adding comments](#).

creator

The *creator* is the person who [creates the review](#). In most cases this person will also act as [moderator](#).

defect

A *defect* is a comment flagged as something that requires addressing and includes optional defect classifications.

See [Flagging Defects](#) and [Customising the defect classifications](#).

moderator

The *moderator* is the person responsible for [creating](#) the review, [approving](#) the review, determining when reviewing is finished, [summarising](#) the outcomes and [closing](#) the review. By default, the moderator is the [creator](#). See also [author](#), the person whose changes to the code are to be reviewed.

participant

Crucible uses the terms [creator](#), [author](#), [moderator](#), and [reviewer](#) to describe the *roles* of review participants.

permission scheme

A *permission scheme* assigns particular [permissions](#) to any or all of the following:

- Particular [Users](#).
- Particular [Groups](#).
- All logged-in users.
- [Anonymous Users](#)
- People in particular [Review Roles](#), such as:
 - [Author](#)
 - [reviewer](#)
 - [creator](#)
 - [moderator](#)

The scheme's permissions will apply to all reviews belonging to the [project\(s\)](#) with which the scheme is associated.

You can create as many permission schemes as you wish. Each permission scheme can be associated with many projects or just one project, allowing you to tailor appropriate permissions for individual projects as required.

See [Creating a permission scheme](#).

permissions in Crucible

A *permission* is the ability to perform a particular action in Crucible, e.g. 'Create Review'.

Permissions are assigned to particular users, groups or [review roles](#) by means of [permission schemes](#).

The following permissions are available:

Permission	Description	Default Assignees
Abandon	Ability to abandon (i.e. cancel) a review.	Creator Author Moderator
Approve	Ability to approve a review (i.e. issue it to the reviewers).	Creator Author Moderator
Close	Ability to close a review once it has been summarised.	Creator Author Reviewer Moderator
Comment	Ability to add or remove a comment to or from a review.	Creator Author Reviewer Moderator
Complete	Ability of a reviewer to change their individual review status to Complete.	Reviewer
Create	Ability to create a review.	All logged-in users
Delete	Ability to delete a review.	Creator Author Moderator

Edit Review Details	Ability to edit a review's details and change the set of revisions being reviewed.	Creator Author Reviewer Moderator
Re-Open	Ability to re-open a closed or abandoned review.	Creator Author Reviewer Moderator
Recover	Ability to resurrect an abandoned (i.e. cancelled) review.	Creator Author Reviewer Moderator
Reject	Ability to reject a review submitted for approval (i.e. prevent it from being issued to reviewers).	Creator Author Moderator
Submit	Ability to submit a review for approval (i.e. request that the review be issued to the reviewers).	Creator Author Moderator
Summarise	Ability to summarise a review. (Normally this would be done after all reviewers have completed their review.)	
Uncomplete	Ability of a reviewer to change their individual review status from Complete to Uncomplete.	Reviewer
View	Ability to view a review. (People without this permission will not know that the review exists.)	Anonymous users All logged-in users Creator Author Reviewer Moderator

projects in Crucible

A Crucible *project* provides a way to group and manage related [reviews](#) – typically reviews that are all involved with the same software project. A Crucible project allows you to

- define default [moderators](#), [authors](#) and [reviewers](#) for the reviews in that project.
- define which people are eligible to be [reviewers](#) for the reviews in that project.
- use [permission schemes](#) to restrict who can perform particular actions (e.g. 'Create Review') in that project.

Every Crucible review belongs to a project. Each project has a *name* (e.g. ACME Development) and a *key* (e.g. ACME). The project key becomes the first part of that project's *review keys*, e.g. ACME-101, ACME-102, etc:

By default, Crucible contains one project. This default project has the key 'CR' and the name 'Default Project'. See [Creating a project](#).

review duration

The *review duration* is the period of time for which a review will run.

See [Editing a project](#).

reviewer

A *reviewer* is a person assigned to [review the change](#). Reviewers can make [comments](#) and indicate when they have [completed their review](#). The [moderator](#) and [author](#) are implicitly considered to be participants of the review, but are not reviewers.

role

See [participant](#).

state

A Crucible review moves through the following states in the following sequence:

Draft	See Creating a Review .
Require Approval	Relevant only when the moderator is not the creator . See Issuing a Review .
Under Review	See Issuing a Review and Reviewing the Code .
Summarize	See Summarising and Closing the Review .
Closed	See Summarising and Closing the Review .

 Reviews can be re-opened, i.e. moved from **Summarize** or **Closed** back to **Under Review**.

A review may also be in the following states:

Abandoned	This happens when a review is deleted.
Rejected	Any reviews that a moderator has rejected.
Needs Fixing	This means that the review state is not understood by Crucible, and indicates a programming or data issue. The review moderator can move the review into a known state if this happens.

statement of objective

A *statement of objective* is an optional text description of the review and any specific areas the [reviewers](#) should focus on.

users in Crucible

A *user* is a person using Crucible.