



User documentation for Crucible 3.8

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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, and discuss desired improvements, without the need for meetings.

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

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](#)

Start using Crucible

For a short introduction see [Starting to use Crucible](#). You'll learn how to:

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

Integrate Crucible with other Atlassian applications

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

Read more about using Crucible




To find out more about using Crucible with your team, see [Using Crucible](#).















To find out how to manage the Crucible server, see [Administering Crucible](#).

Supported platforms

This page lists the supported platforms for **Crucible 3.8.x** and its minor releases.

Key:  = Supported  = Deprecated  = Not Supported

<i>Java</i>		
Oracle JRE / JDK	 1.8  1.7  1.6	<p>Crucible requires the Java Runtime (JDK or JRE), version as noted. Pre-release/Early access versions of Java are <i>not supported</i>.</p> <p>We highly recommend that you use the Oracle JVM (or OpenJDK for Linux only). Other Java implementations have not been tested.</p> <p>You can download an Oracle Java Runtime.</p> <p>For the OpenJDK, download and install</p>

OpenJDK	 1.7 (Linux only)	<p>instructions for Linux flavours are at http://openjdk.java.net/install/.</p> <p>Please note:</p> <ul style="list-style-type: none"> Once you have installed the Java, 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. On OS X Java 7 performs significantly better than Java 6. <p> Support for Oracle Java 7 is deprecated. See End of Support Announcements for Crucible.</p> <p> Support for Java 6 was removed in Crucible 3.6, as previously announced.</p>
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. <div style="border: 1px solid #f0e68c; padding: 10px; margin-top: 10px;"> <p>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.</p> </div>
Linux		
Apple Mac OS X		
Databases		
HSQLDB	 Bundled; for evaluation use only	<p>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.</p> <p>External databases are generally more resistant to data loss during a system crash and are more suited for production use.</p> <p>See the Crucible Database documentation for further details.</p>
MySQL	 MySQL Enterprise Server 5.1+  MySQL Community Server 5.1+  MySQL 5.0  Maria, Percona	<p>For MySQL:</p> <ul style="list-style-type: none">  For 5.1, versions earlier than 5.1.10 are not supported  For 5.6, versions earlier than 5.6.11 are not supported  For 5.7, versions earlier than 5.7.5 are

PostgreSQL	<ul style="list-style-type: none"> ✓ 9.0, 9.1, 9.2, 9.3 ✓ 8.3, 8.4 ✗ 8.2 	<ul style="list-style-type: none"> not supported ✗ Support for MySQL 5.0 was removed in Crucible 3.3. See End of Support Announcements for Crucible. ✗ MariaDB and Percona variants of MySQL are not supported, and are known to cause issues when used with Crucible.
Oracle	<ul style="list-style-type: none"> ✓ 11g 	
SQL Server	<ul style="list-style-type: none"> ✓ 2012 ✓ 2008, 2008 R2 ✗ 2005 	<ul style="list-style-type: none"> ✗ Support for PostgreSQL 8.2 was removed in Crucible 3.3. See End of Support Announcements for Crucible. ✗ Support for SQL Server 2005 was removed in Crucible 3.3. See End of Support Announcements for Crucible.
Web browsers		
Microsoft Internet Explorer	<ul style="list-style-type: none"> ✓ 10.0, 11.0 ⚠ 9.0 ✗ 8.0 	<p>Minimum screen resolution of 1024x768. Recommended screen resolution of 1280x768 or above.</p> <p>⚠ Support for Internet Explorer 9 is deprecated and will be removed in April 2015. See End of Support Announcements for Crucible.</p> <p>✗ Support for Internet Explorer 8 was removed in Crucible 3.3. See End of Support Announcements for Crucible.</p>
Mozilla Firefox	<ul style="list-style-type: none"> ✓ Latest stable version supported ✗ 3.6, 4.0 	<ul style="list-style-type: none"> ✗ Support for Firefox 3.6 and 4.0 was removed in Crucible 3.7.
Safari	<ul style="list-style-type: none"> ✓ Latest stable version supported ✗ 4, 5 	<ul style="list-style-type: none"> ✗ Support for Safari 4 and 5 was removed in FishEye 3.7.
Chrome	<ul style="list-style-type: none"> ✓ Latest stable version supported 	
Version Control Systems		
Subversion (SVN)	<p>Server:</p> <ul style="list-style-type: none"> ✓ 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8 <p>Client:</p> <ul style="list-style-type: none"> ✓ SVNKit (bundled & the default) ✓ Native JavaHL 1.8 ✓ Native JavaHL 1.7 ✗ Native JavaHL 1.6 	<ul style="list-style-type: none"> ✗ Crucible 3.1, and later, do not support the native JavaHL 1.6 client. <p>See Native support for SVN for discussion.</p>
CVS (and CVSNT)	<ul style="list-style-type: none"> ✓ All versions 	

Perforce	<ul style="list-style-type: none"> ✓ Client version 2007.3 or later ✓ Server version 2005.1 or later 	<p>The Server must support the ztag tagged protocol.</p> <p>✗ Perforce Streams, introduced in 2011.1, is not currently supported. See FE-3886 - support for Streams in p4 OPEN</p>
Git	<ul style="list-style-type: none"> ✓ 2.2.1, 2.2.2 ✓ 2.1.4 ✓ 2.0.5 ✓ 1.9.5 ✓ 1.8.0.3, 1.8.1.5, 1.8.2.3, 1.8.3.4, 1.8.4.5, 1.8.5.6 ✓ 1.7.1.1, 1.7.2.5, 1.7.3.5, 1.7.4.5, 1.7.5.4, 1.7.6.6, 1.7.7.7, 1.7.8.6, 1.7.9.7, 1.7.10.5, 1.7.11.7, 1.7.12.4 	<p>These are the versions of Git that we currently test Crucible against.</p> <p>✗ Git 1.8.4.3 is not supported. See STASH-4101 - Clone and fetch fail with "protocol error: impossibly long line" CLOSED</p> <div> <p>[Security vulnerability CVE-2014-9390] affects multiple Git versions. Crucible itself is not affected, however you should update your <i>clients</i> to a patched maintenance version: v1.8.5.6, v1.9.5, v2.0.5, v2.1.4 and v2.2.1 or newer.</p> </div>
Mercurial	<ul style="list-style-type: none"> ✓ 3.0.2, 3.1.2, 3.2.4 ✓ 2.0.2, 2.1.2, 2.2.3, 2.3.2, 2.4, 2.5.2, 2.6.3, 2.7.2, 2.8.2, 2.9.1 ✓ 1.5.1, 1.5.4, 1.6.4, 1.7.5, 1.8.4, 1.9.3 	<p>These are the versions of Mercurial that we currently test Crucible against.</p> <p>As of version 3.6.3, Crucible supports Mercurial 3.</p> <p>✗ Mercurial 2.1 has a bug that makes it incompatible with Crucible. Please use Mercurial 2.1.1 or later.</p> <p>You should restart Crucible after upgrading Mercurial.</p>
Atlassian applications		
Crowd	<ul style="list-style-type: none"> ✓ Crowd 2.4.x+ ✓ Crowd client library: 2.4.1 	<p>From version 2.8.x, FishEye bundles the Crowd 2.4.1 client library, and supports the Crowd 2.4.x server, and later versions.</p>
JIRA	<ul style="list-style-type: none"> ✓ JIRA FishEye Plugin 6.1.0+ 	<p>The JIRA FishEye Plugin is bundled with JIRA. If you are using earlier versions of JIRA you can upgrade the plugin in JIRA to get support for Crucible.</p>

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](#).

WAR deployment

FishEye/Crucible is a standalone Java program. It cannot be deployed to web application servers such as WebSphere, Weblogic or Tomcat.

Single sign on with Atlassian Crowd

From version 2.8.x, FishEye bundles the Crowd 2.4.1 client library, and supports the Crowd 2.4.x server, and later versions.

Installing Crucible on Windows

This page...

... describes how to perform a clean install of Crucible on Windows.

Upgrading?

If you're upgrading your Crucible installation, read the [Crucible upgrade guide](#) first.

Upgrading from FishEye?

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.

2. 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.

3. Check your version of Java


In a command prompt, run this:

```
java -version
```

The version of Java should be **1.6.0 – 1.7.x** (or **1.7.x** for OpenJDK). 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 a supported version of Java, 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 – 1.7.x** (or **1.7.x** for OpenJDK).

4. 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. We recommend that this path does *not* contain spaces, and that JAVA_HOME should point to the JDK home 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 3. 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 JDK as the **Variable value**, that is, something like `C:\Java\jdk1.7.0_51`. Don't use a trailing backslash. We recommend that `JAVA_HOME` should point to the JDK home path.
4. Now, in a new command prompt, try running '`java -version`'. You should see the same version of Java as you saw above.

5. Now it's time to get Crucible

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

There are 32-bit and 64-bit installers for Crucible on Windows. Each installer adds Crucible as a Windows service, and starts the service, automatically. The express install creates, by default, a `Data` directory and a separate install directory in `C:\Atlassian`. The custom install mode allows you to choose different locations for the install and `Data` directories, with the restriction that the `Data` directory must not be contained in the install directory.

- The installer creates the `FISHEYE_INST` system environment variable.
- The path to the installation directory is referred to as the `<Crucible home directory>` in these instructions.
- You need separate Crucible data directories if you want to run multiple copies of Crucible.
- 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.
- 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](#).
- For Crucible 3.4.4 and later, you can edit JVM parameters for the Windows service by going to **Start > All Programs > Crucible > Configure Crucible**. Ensure that you restart the Crucible service when finished. Do *not* reference any environment variables in the settings (e.g. `%FISHEYE_INST%`). Instead, set the actual path.

6. Visit Crucible!

Give the Crucible service a minute to launch. Then, 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 installed Crucible).

Enter your license, then an admin password, to finish the setup. Note that this password is for the 'built-in' Crucible admin user. You can log in as this user, if necessary, by clicking the **Administration** link in the page footer. See also [How to reset the Administration Page password in Fisheye or Crucible](#).

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

7. 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.

8. Set up your mail server

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

9. 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.

10. Stop Crucible (optional)

Control the Crucible service from the Windows administration console. Alternatively, in a command prompt, change directory to <Crucible home directory> and run this:

```
bin\stop.bat
```

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. Create a dedicated Crucible user (recommended)

For production installations, we recommend that you create a new user account on your operating system that is dedicated to running Crucible. 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.

3. Check your version of Java

In a terminal, run this:

```
java -version
```

The version of Java should be **1.8.x** (or **1.7.x** for OpenJDK).

▼ If you don't see a supported version of Java, then get Java...

Download and install the [Oracle Java Platform JDK](#), or [OpenJDK](#).

Now try running 'java -version' again to check the installation. The version of Java should be **1.8.x** (or **1.7.x** for OpenJDK).

4. 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 path/to/JAVA_HOME may be like: /usr/lib/jvm/default-java</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 path/to/JAVA_HOME may be like:</p> <pre>/System/Library/Frameworks/JavaVM.framework/Versions/CurrentJDK/Home/</pre> <p>Refresh your <code>~/.profile</code> in the terminal and confirm:</p> <pre>source ~/.profile \$JAVA_HOME/bin/java -version</pre> <p>You should see a version of Java that is 1.8.0 or higher:</p> <pre>java version "1.8.0_05"</pre>

5. Now it's time to get Crucible

1. [Download Crucible](#) from the Atlassian download site.
2. Please check your unzip program before extracting the downloaded zip file. Some archive-extract

programs cause errors when unzipping the Crucible zip file:

- Windows users must avoid the Windows built-in unzip utility, as it doesn't extract all the files. Use a third-party unzip program like [7-Zip](#) or [Winzip](#).
 - Solaris users will need to use [GNU tar](#) to handle the long file names.
3. 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 the instance directory by adding a `FISHEYE_INST` environment variable as follows:

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

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:

- [Linking Crucible to JIRA](#)
- [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

1. License

2. Inclusions

3. Connect to JIRA

4. Admin Password

5. Done

Connect to JIRA

If you have JIRA 4.3 or later, Crucible can use JIRA for user management. This is not recommended for more than 500 users. [Learn more here.](#)

JIRA Base URL:

For example: `http://jira.mycompany.com` or `http://mycompany.com/jira`

Admin Username:

This username must have system administrator rights on your JIRA server.

Admin Password:

[Advanced Options...](#)

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>

<p>No users can log in after you have set up the application with JIRA integration.</p>	<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>
---	--	---

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 **Delete** next to the application link that you want to delete.
 - d. A confirmation screen will appear. Click **Confirm** 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.
- c. 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 **Delete** next to the application link that you want to delete.
 - d. A confirmation screen will appear. Click **Confirm** 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:
 - 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 **Next**.
 - d. Enter the following information:
 - **Create a link back to this server** – Check 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 **Next**.
 - f. Enter the information required to configure authentication for your application link:
 - **The servers have the same set of users** – Check this box, because the users are the same in both applications.
 - **These servers fully trust each other** – Check this 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 **Create**.
 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 data-bbox="742 1442 1281 1507" data-label="Text" style="border: 1px solid #add8e6; padding: 5px; margin: 5px 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.

- 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 Stash to JIRA for user management](#).

Having trouble integrating your Atlassian products with Application Links?

We've developed a [guide to troubleshooting Application Links](#), to help you out. Take a look at it if you need help getting around any errors or roadblocks.

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](#)

For more information, see the [Crucible user's guide](#).

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.

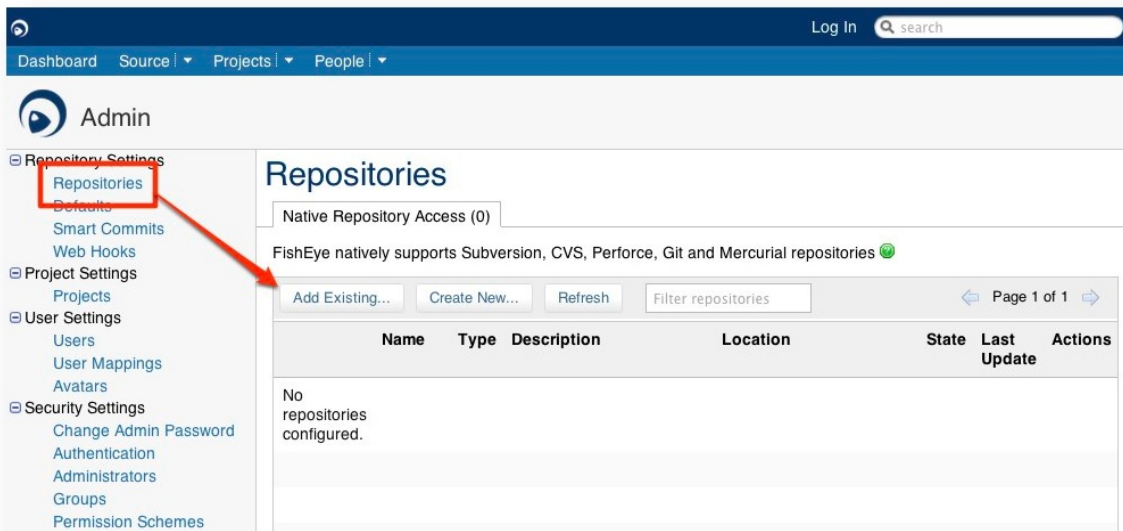
Add a repository

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

Go to the Admin area by clicking on the 'cog' at the top right and choosing **Administration**:



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 turned on and if the repository should be indexed right away, then click **Add** to finish the process.

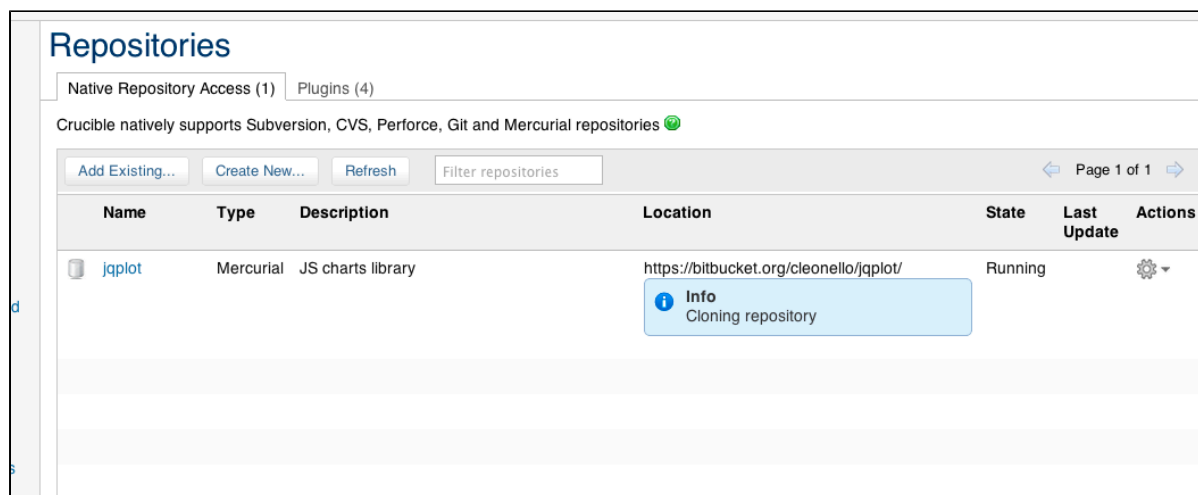
Add Repository - Page 3 of 3

Final Settings

Store Diff Info: ☐

Enable Repository After Adding: ☒

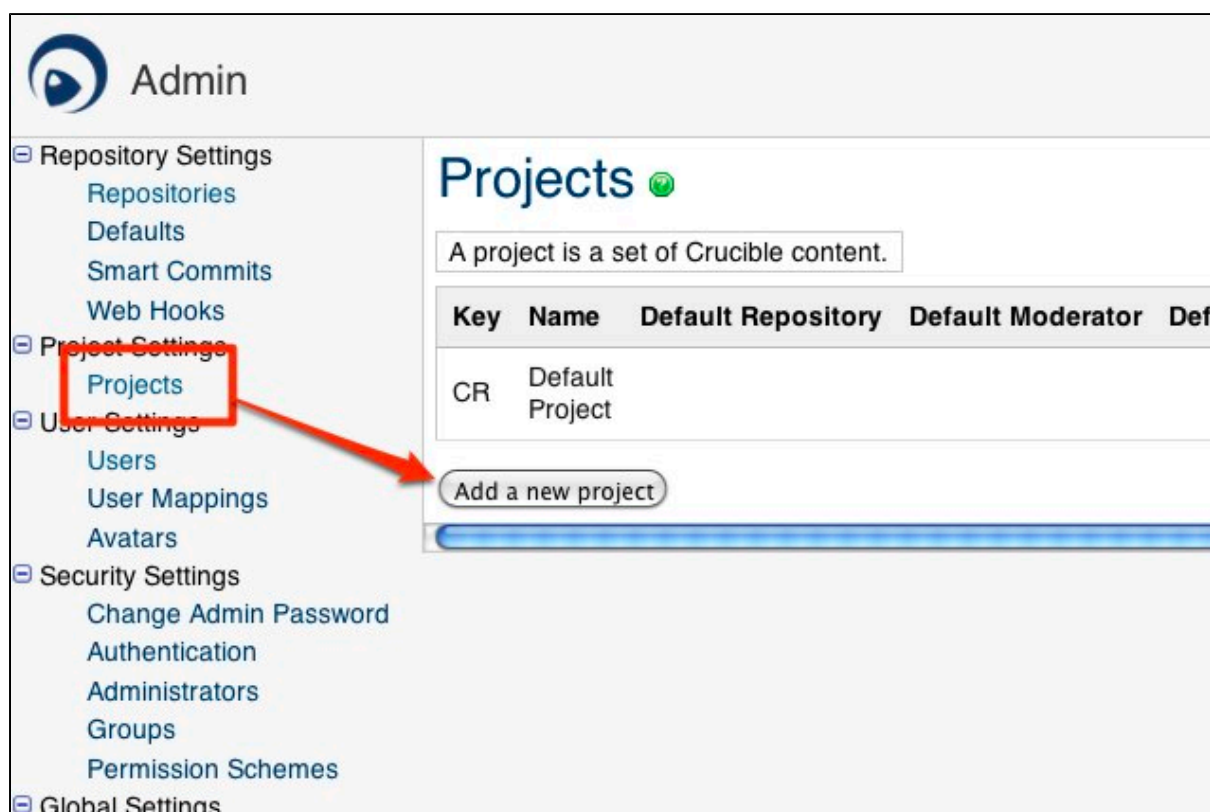
Your repository is now created in **Crucible** and the indexing should have started.



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.



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.


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.

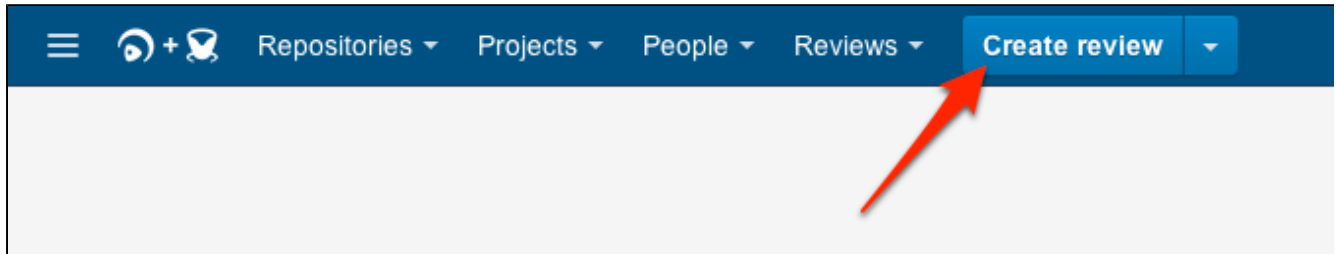
Key	Name	Default Repository	Default Moderator	Default Reviewer Users	Default Reviewer
CR	Default Project				
JQR	JQ Reviews	jqplot			

Create a review

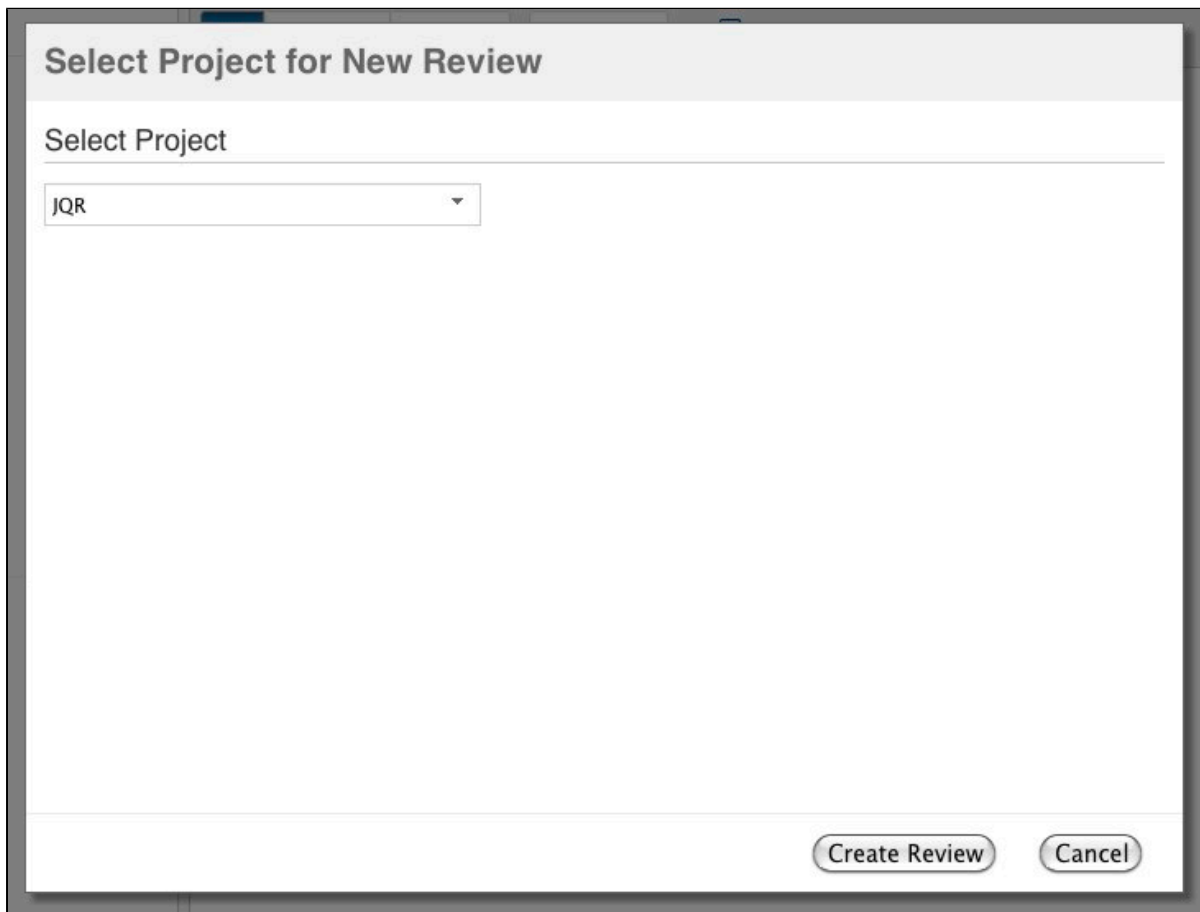
Now that you have your own project you can create reviews in it.

You need to be logged in to create reviews.

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





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


A screenshot of a modal dialog box titled 'Select Project for New Review'. Inside the dialog, there is a section labeled 'Select Project' with a dropdown menu. The dropdown menu is open, showing the text '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 for the review.


Add Content to Review JQR-1

**Browse Changesets**
Browse recent changes for revisions to add to this review

**Explore Repositories**
Use a directory tree to find files

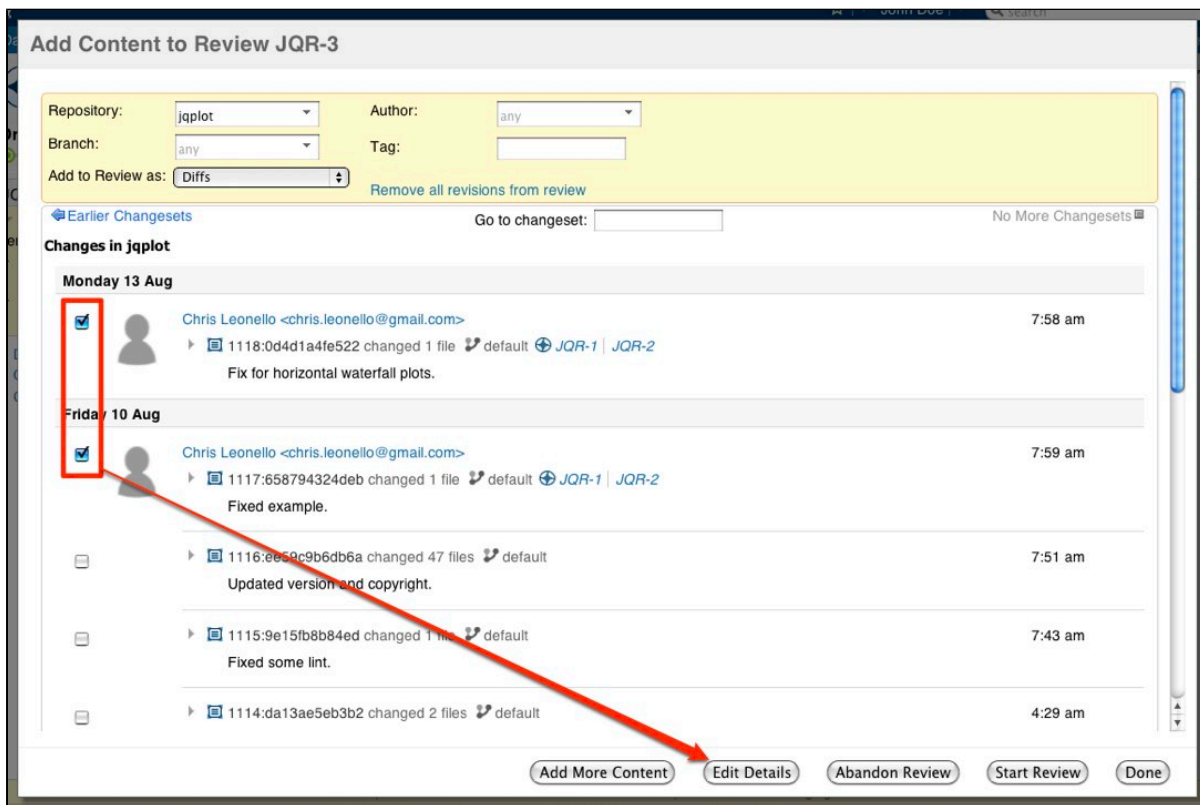
**Search for Files**
Use Crucible's search to find revisions to add to this review

**Pre-commit**
Upload a patch file to be reviewed - diffs of files will be extracted

**Attachments**
Upload a file to be reviewed

[Edit Details](#) [Abandon Review](#) [Start Review](#) [Done](#)

Select the changesets that you want 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.

Edit Review Details JQR-3

Project: JQR

Title: Fix for horizontal waterfall plots.

Author: John Doe Moderator: John Doe

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

Sean Carter

Donald Glover

Objectives:

Due Date:

Linked Review: [Link](#)

Invited Reviewers: [Invite](#)

[Add Content](#) [Abandon Review](#) [Start Review](#) [Done](#)

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

JQR-3 [Details](#) [Objectives](#) [General Comments](#)

Fix for horizontal waterfall plots.

Under Review for a few seconds

Author & Moderator: John Doe

Reviewers: Donald Glover Sean Carter

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

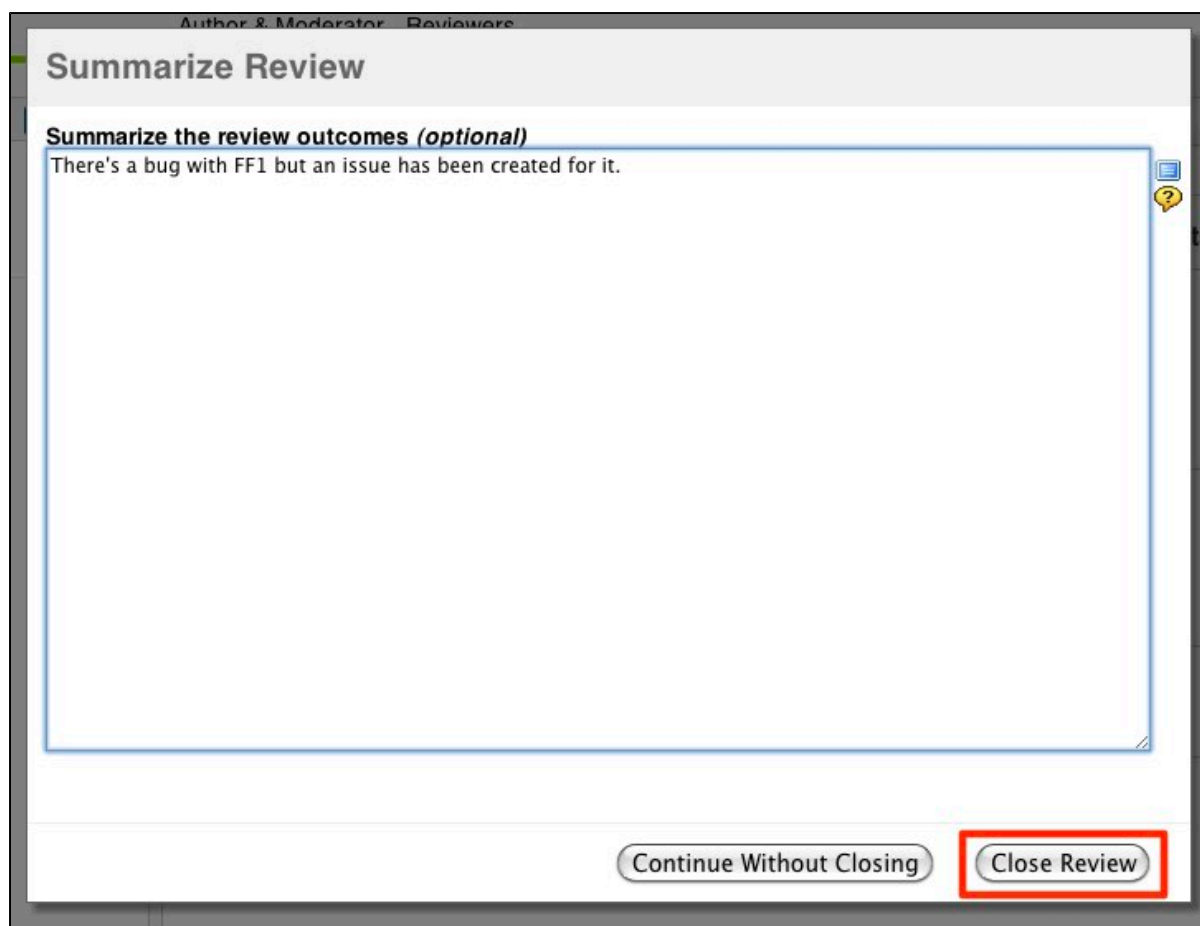
Objectives [Edit](#)

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, when you are the moderator, you need to click on **Summarize** at the top right and then close the review from the dialog:



Installing and upgrading Git

This page describes how to install or upgrade Git on the Crucible server:

- [Check your version of Git](#)
- [Install or upgrade Git on Linux](#)
- [Install or upgrade Git on Mac OS X](#)
- [Install or upgrade Git on Windows](#)
- [Restart Crucible](#)

Check your version of Git

The versions of Git supported by Crucible are listed on [Supported platforms](#).

You can check your current version of Git by running the `git --version` command in a terminal (Linux, Mac OS X) or command prompt (Windows).

For example:

```
git --version
git version 1.7.7.3
```

If you don't see a supported version of Git, you'll need to either upgrade Git or perform a fresh install, as described below.

Install or upgrade Git on Linux

Use your package manager to install Git. For example, on Ubuntu 13.10, use:

```
sudo apt-get install git
```

If you are using a different Linux distribution, you may need to use a different package repository to get the latest stable version of Git.

Now [check the Git version](#) – you should see the new version of Git.

If you still can't see the Git version, you may need to add the Git install location to your path. Open your `~/.profile` file in a text editor and add this line, where `<path/to/git>` is the install location for Git:

```
export PATH=$PATH:<path/to/git>
```

You can use the `which git` command to find the install location for Git.

Install or upgrade Git on Mac OS X

This section describes how to install the latest stable Git release on your Mac. It does not describe how to update the version of Git that is bundled with Apple's Xcode.

Download the latest stable Git release from the [Git website](#). Click on the downloaded `.dmg` file, then double-click the `.pkg` icon to run the installer. This will install the new version of Git over the existing version:



Now [check the Git version](#) – you should see the new version of Git.

If you still can't see the Git version, you may need to add the Git install location to your path. Open your `~/.profile` file in a text editor and add this line, where `<path/to/git>` is the install location for Git:

```
export PATH=$PATH:<path/to/git>
```

You can use the `which git` command to find the install location for Git.

Install or upgrade Git on Windows

Download the [Full installer for official Git for Windows](#). Installing Git for Windows (msysGit) also installs a

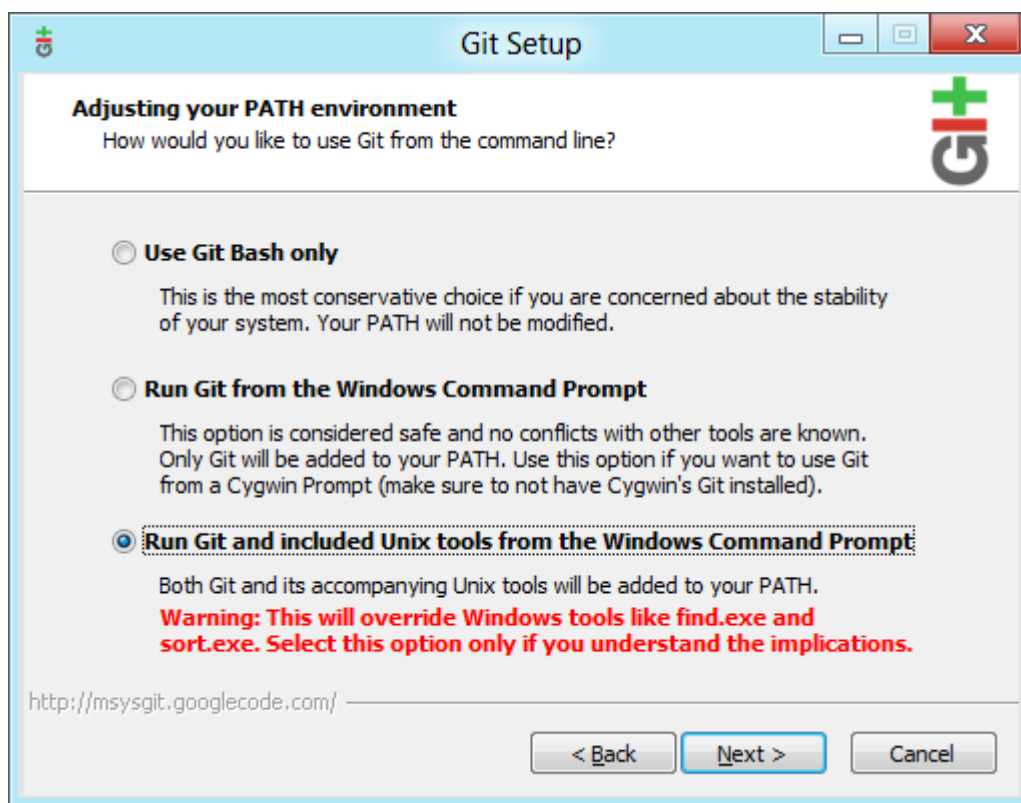
supported version of Perl.

! msysGit is the *only supported distribution* when running Crucible on Windows. Cygwin Git is *not supported* and has known issues.

Run the Git installer, ensuring that you install into the same location as any existing Git installation. You can use `where git` to locate existing installations.

Ensure that `git.exe` is available in the path:

- Choose either Option 2, "Run Git from the Windows Command Prompt", or Option 3, "Run Git and included Unix tools from the Windows Command Prompt", will both work with Crucible.
- Do *not* select Option 1, "Use Git Bash only" when installing or upgrading Git for the Crucible server -- *this will not work with Crucible*.



Now, check the Git version – you should see the new version of Git.

Restart Crucible

You'll need to stop and restart Crucible so that it will pick up the upgraded version of Git.

On Windows:

Control the Crucible service from the Windows administration console. Alternatively, in a command prompt, change directory to `<Crucible home directory>` and run:

```
bin\start.bat
```

On Linux and Mac OS X:

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

```
bin\start.sh
```

Using Crucible

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

This page provides an overview of how to use Crucible.

1. Point Crucible to your repositories

Crucible is all about code reviews. It's no surprise then that Crucible needs access to your source code.

A Crucible administrator can connect a repository managed by any of these tools:

- [Stash](#)
- [Git](#)
- [Subversion](#)
- [Mercurial](#)
- [CVS](#)
- [Perforce](#)

2. Set up a Crucible 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.

A Crucible administrator can create new projects – see [Creating a project](#).

3. Review something!

When you create a review you'll want to:

- Add the files, changesets or other content that you want to be reviewed.
- Choose the people who you want to be reviewers.

We've found 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.

See [Creating a review](#) for more information.

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](#)

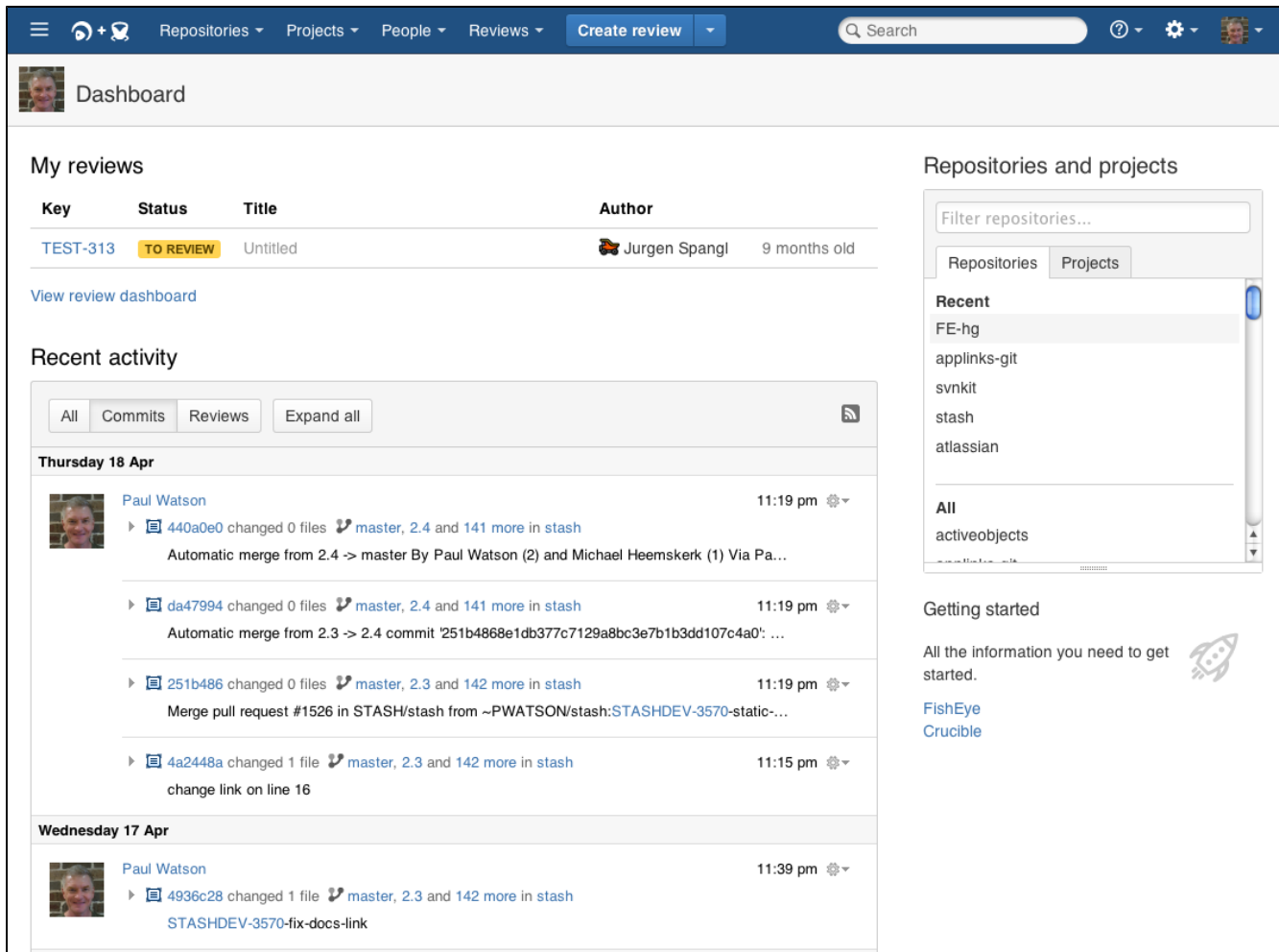
- [Recent activity](#)
- [Related pages](#)

Dashboard

The dashboard is the first screen you see when you log into FishEye/Crucible. The dashboard displays reviews and system activity related to you, and provides filtering for your recent repositories and projects. The dashboard can be accessed from anywhere in the application by clicking the FishEye/Crucible icon  in the [header](#).

Click **View review dashboard** to see more information about your reviews.

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



The screenshot shows the Crucible dashboard interface. At the top is a navigation bar with tabs: Repositories, Projects, People, Reviews, and a 'Create review' button. A search bar is on the right. Below the navigation bar, the dashboard is divided into three main sections:

- My reviews:** A table with columns 'Key', 'Status', 'Title', and 'Author'. It shows a review with key 'TEST-313', status 'TO REVIEW', and author 'Jurgen Spangl'.
- Recent activity:** A section with tabs for 'All', 'Commits', and 'Reviews'. It displays a list of recent commits and merges, including details like 'Paul Watson' and 'Automatic merge from 2.4 -> master'.
- Repositories and projects:** A sidebar on the right with a search bar and tabs for 'Repositories' and 'Projects'. It lists recent repositories like 'FE-hg', 'applinks-git', and 'svnkit'.

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	Allows you to search and report on reviews. The dropdown menu has links to recently visited reviews, as well as links to the Crucible Inbox and Outbox. Choose Reviews > Review dashboard to see the Review Dashboard that has more information about your reviews.	All screens All screens for logged-in users. .

Recent activity

The dashboard has an activity stream that displays recent commit activity and reviews activity. The activity stream will display your own activity as well as information from projects, reviews, people, repositories, etc, that you have selected as favourites. For more information on favourites, see [Using favourites](#).

Browsing commit activity

Commit 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.

Browsing reviews activity

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).

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](#)

Browsing all reviews

To browse reviews in Crucible, choose **Reviews > Review dashboard**.

The dashboard displays reviews according to the filters you click in the sidebar:

- [Your reviews](#)
- [Other reviews](#)
- [Custom filter](#)
- [Reports](#)
- [Related topics](#)


Your reviews

By default, the dashboard shows the reviews you are involved in.

- Browse your reviews by clicking the links under 'My Reviews' and 'My Snippets' in the sidebar.

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

Screenshot: Browsing your reviews


Review Dashboard

My Reviews

Inbox (5)

- To Review (1)
- Ready to Close (0)
- In Draft (4)
- Require My Approval (0)

Outbox (0)

- Out For Review (0)
- Completed (0)

Archive (10)

- Closed (5)
- Abandoned (5)

My Snippets

- My Open Snippets (6)
- My Snippets (6)

Inbox

State	Review	Owner	Name	Files	Comments	Age
Review	TEST-313			1	3	9 months
Draft	TEST-323		Donish	3	0	5 months and 14 days
Draft	TEST-359			0	0	5 months
Draft	TEST-399			0	0	3 months and 4 days
Draft	CR-FE-7366		CRUC-2747: update wording	5	0	2 months and 28 days

Other reviews

- Browse reviews for all people by clicking the links under 'Everyone's Reviews' and 'Everyone's Snippets' in the sidebar:

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*

Review Dashboard

My Reviews

- 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)
 - Abandoned (5)

My Snippets

- My Open Snippets (0)
- My Snippets (0)

All Open Reviews Displaying results

State	Review	Owner	Name	Files	Comments	Age
Review	CR-FE-7365		FECRU-3474: Initialise repo markers if out of sync with states	1	0	96 mi
Review	CR-FE-7364		FECRU-3472: fix the xss issue by returning a jquery object	1	0	21
Review	CR-FE-7361		FSH-11605: performance improvements to Edit Project, Add Project and...	17	40 (40 unread)	44 ho
Review	CR-FE-7352		FSH-11357: return the latestChangeset rather than the...	2	0	4
Review	CR-FE-7349		FE-4661: don't try to load more activity on scrolling if there's none...	1	0	5
Review	CR-CLOV-246		CLOV-1289: added support for <columns> tag in PDF report	1	0	6
Review	CR-FE-7340		FECRU-3435, FECRU-3183 - fixup jfp functests a bit	2	7 (7 unread)	7
Review	CR-FE-7332		FSH-11357: add logging around hg indexing	2	0	8
Review	CR-FE-7328		BUILDENG-3390: adding template license files	591	18 (18 unread)	8
Review	CR-CLOV-245		CLOV-958: Refresh button enabled in the Cloud report in case of 100%...	2	0	13

Custom filter

You can filter reviews by author or by projects that you have selected as [favourites](#).

Reports

Click **Reports** at the top of the screen to [generate reports](#) on review blockers for all people. You can also filter reviews by status, e.g. 'Open', 'Closed'.

Related topics

[Viewing reports](#)

Browsing source files

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

To browse source files:

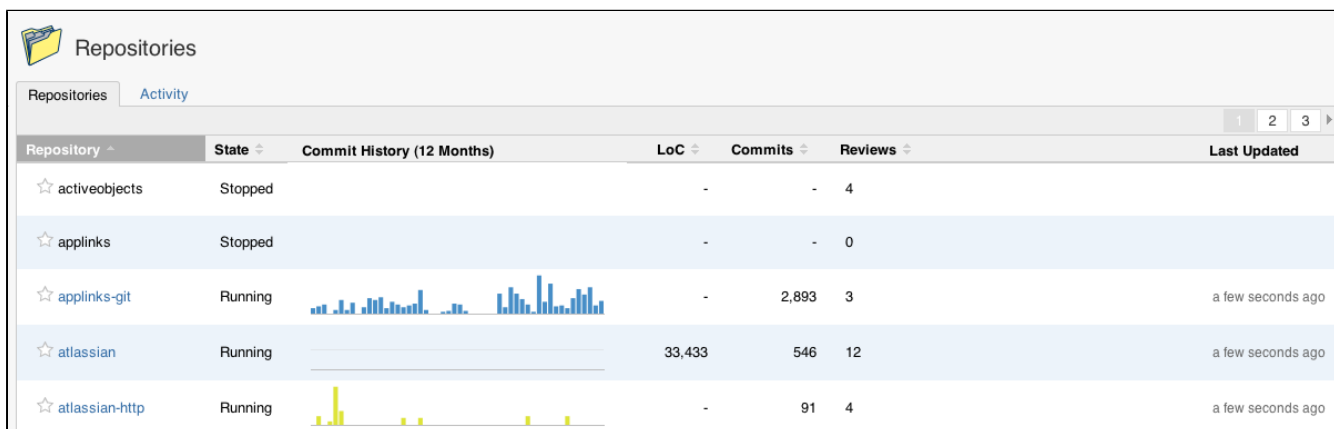
1. Choose **Repositories** > **All repositories** from the header. The 'Repositories' view will be displayed, showing summary information if you have multiple repositories set up. See the '[Viewing all repositories](#)' screenshot below.


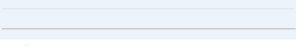
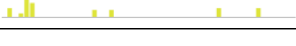
- Click the name for a repository to view its contents. See the '[Viewing a repository](#)' screenshot below.
- Browse the repository for the desired source file using the directory tree in the left menu. See the '[Viewing a file](#)' screenshot below.
- You can view various information about the file:

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.

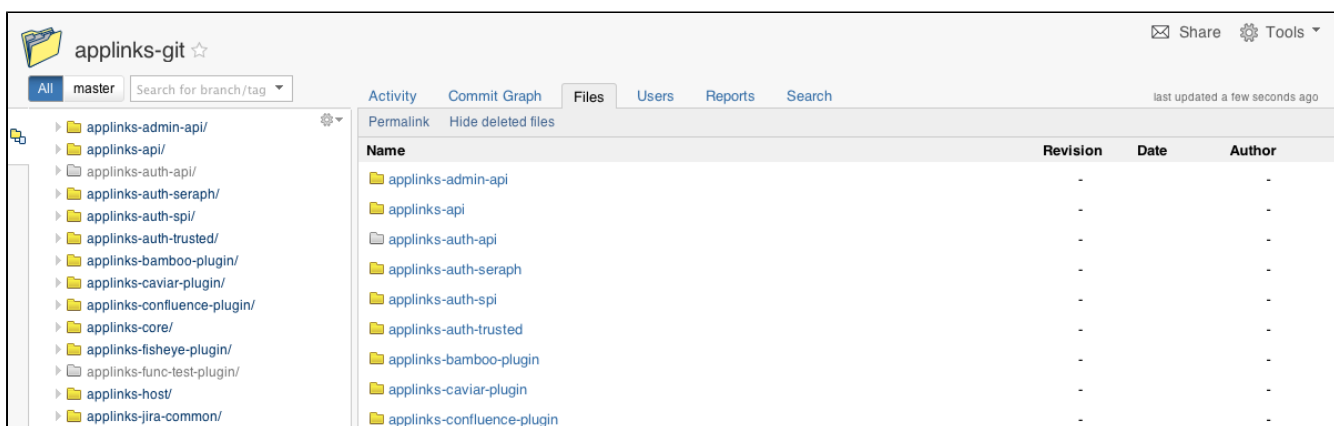
 To download files, click the **Source** tab for the desired file, then right-click **Raw**.

Screenshot: Viewing all repositories



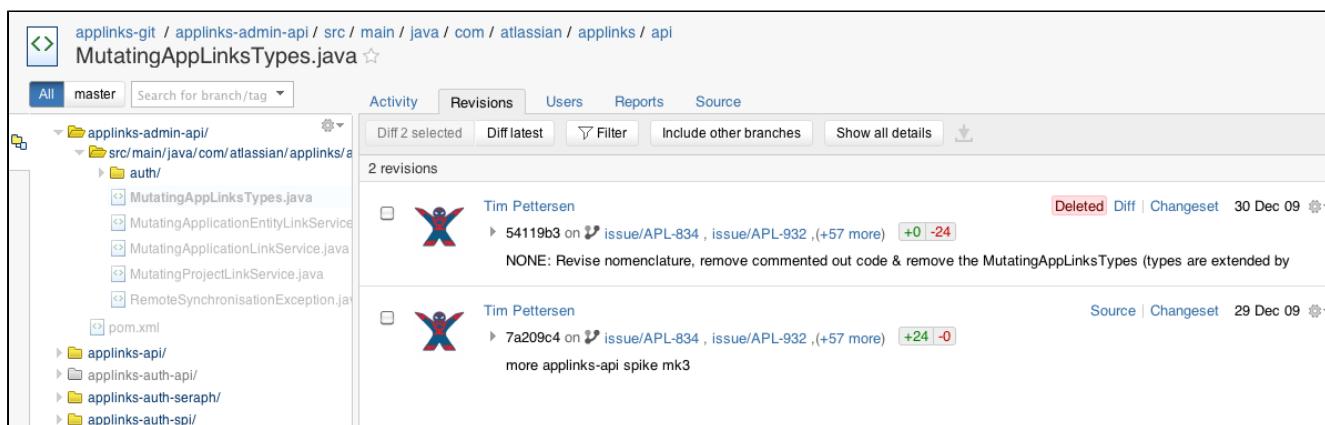
Repository	State	Commit History (12 Months)	LoC	Commits	Reviews	Last Updated
activeobjects	Stopped		-	-	4	
applinks	Stopped		-	-	0	
applinks-git	Running		-	2,893	3	a few seconds ago
atlassian	Running		33,433	546	12	a few seconds ago
atlassian-http	Running		-	91	4	a few seconds ago

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



Browsing projects

To browse the content in a project, click **Projects** at the top of the page and choose a recent project, or choose **All projects** and click on a project name in the table.

The page for the project has the following sections:

Left navigation panel

Displays an overview of the project's history, statistics and activity.


Activity tab

Lists recent commit and review activity on separate sub-tabs, and all these together on the **All** sub-tab.

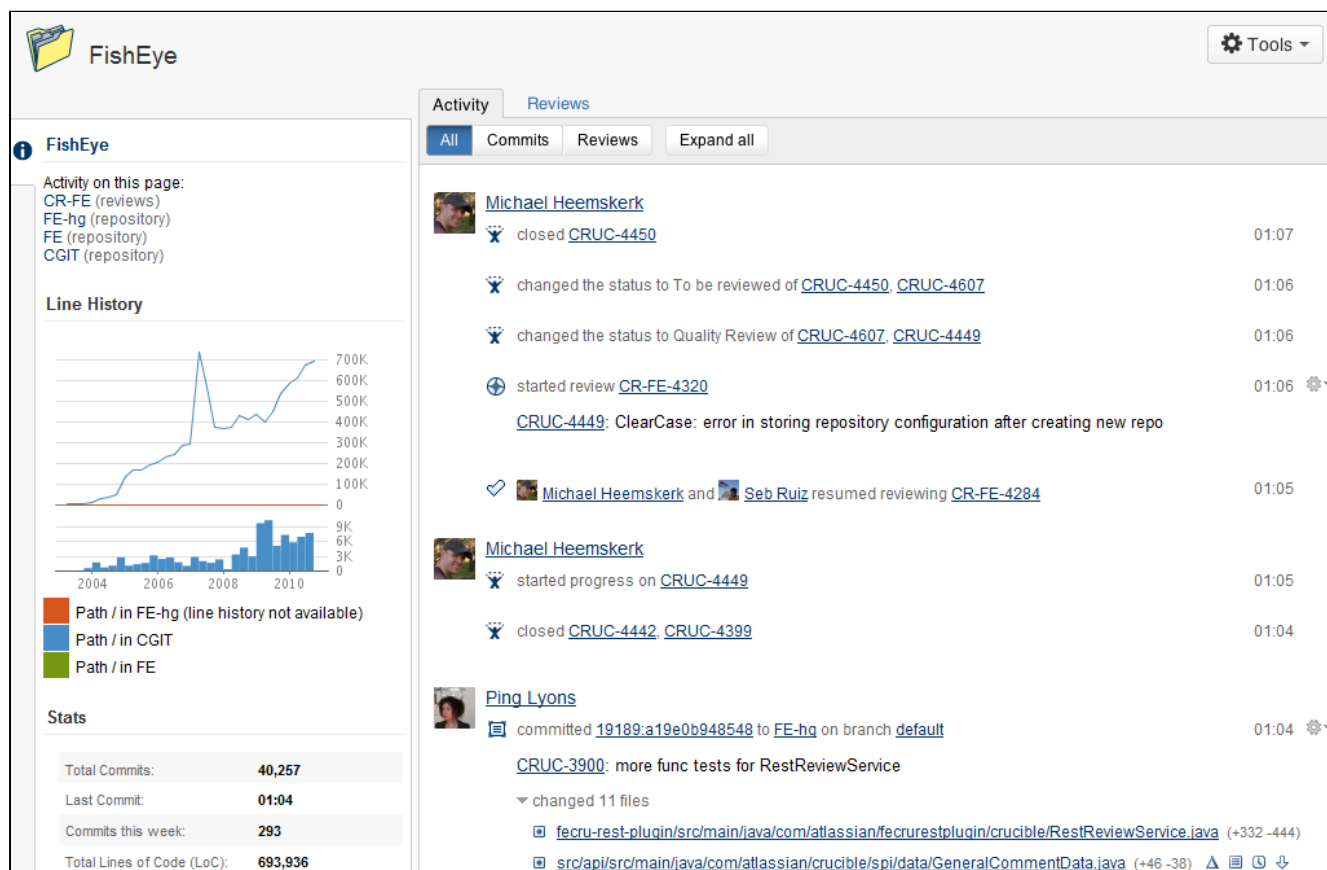
Click **Expand all** to see more detail for every commit or review.

Reviews tab

Lists all the reviews for the project.

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

Screenshot: The Crucible Project View



Changing your User Profile

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

Using favourites

This page describes how to use 'favourites' in Crucible.

You can add code reviews, people and repositories to your favourites. This allows you to customize the information that you see in your activity stream. Try favouriting items that you are currently working on, to get greater relevance and context in your activity stream.

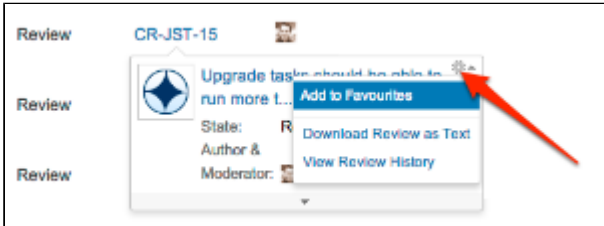
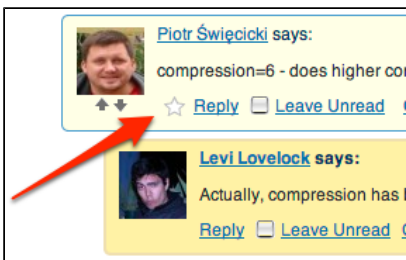
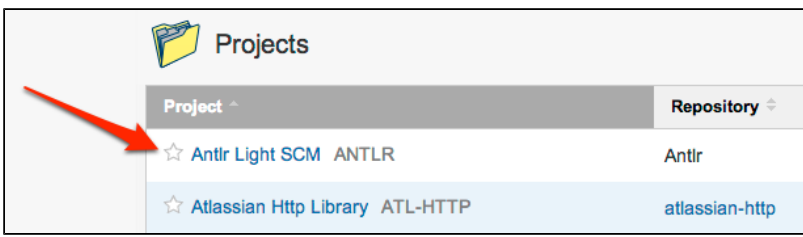
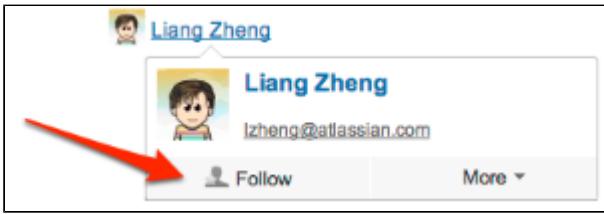
You can view all your favourites at once in your profile – choose **Favourites** from your User menu (the one with your avatar).

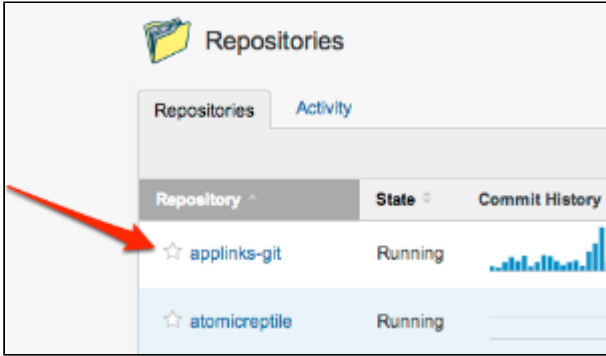
On this page:

- [Adding favourites](#)
- [Managing favourites](#)

Adding favourites

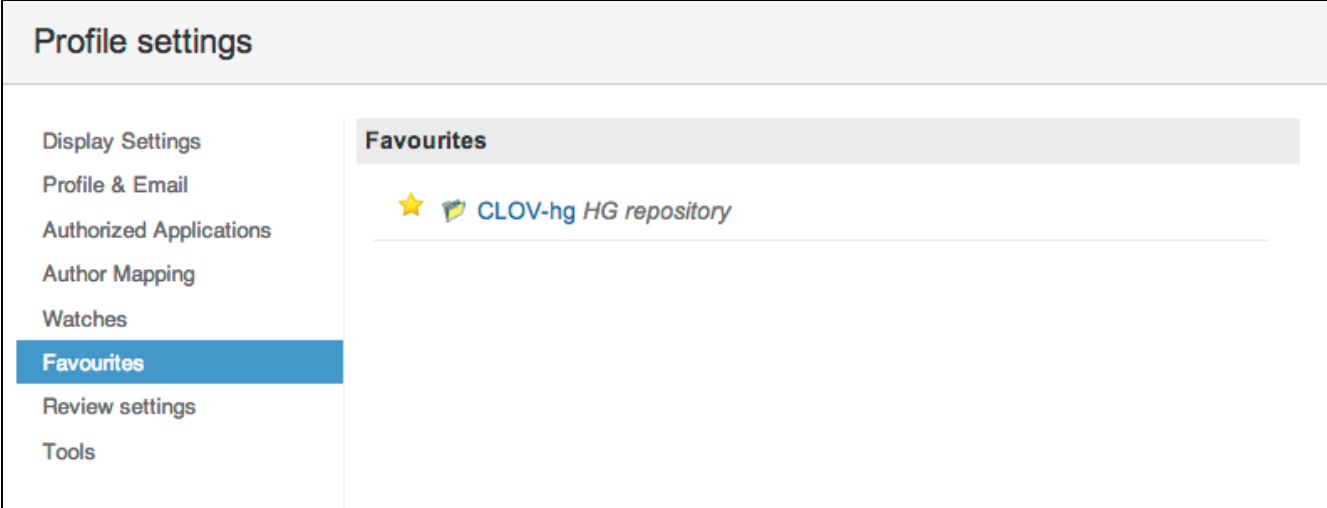
To add an item to your favourites, follow one of these options:

Item	Favourite it by...	Looks like this...
Review	<p>Hover over the review name, for example in the 'Open Reviews' list of the Reviews Dashboard.</p> <p>In the popup, click the cog icon and choose Add to Favourites.</p>	
Review comment thread	<p>Click the grey star in the first comment of the comment thread.</p>	
Project	<p>Click the grey star beside the project's name in the 'All Projects' list. See Browsing projects.</p>	
Person	<p>Hover over a person's username and click Follow.</p>	

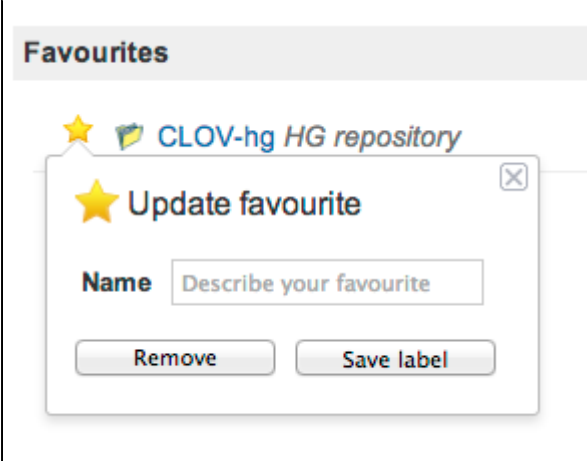
<p>Repository</p> <p>(Requires FishEye)</p> <p>In the 'Repositories' list, click the grey star beside the repository's name. See Browsing source files.</p>	
---	--

Managing favourites

You can manage your favourites from your profile in Crucible – choose **Favourites** from your User menu (the one with your avatar):




Click the star beside a favourite to change its label or to delete it:



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. <i>Normal heading</i>
h5.Small heading	Turns text into a heading at size 5. Small heading
h6.Smallest heading	Turns text into a heading at size 6. <i>Smallest heading</i>

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} .
<div style="border: 1px solid black; padding: 5px; display: inline-block;">{ {monospaced} }</div>	Placing double curly-brackets around text makes it appear monospaced.

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

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>\\</div>	Creates a line break.
<div>----</div>	Creates a horizontal ruler.
<div>---</div>	Produces em dash — symbol.
<div>--</div>	Produces en dash – symbol.

Links

Creating links is easy with Wiki Markup.

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

[Atlassian Crucible http://atlassian.com]	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. Examples: <ul style="list-style-type: none"> • http://www.atlassian.com/crucible • Atlassian Crucible 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).
[mailto:mail@example.com]	Creates a link to an email address. Example: mail@example.com
[file:///c:/temp/foo.txt] [file:///z:/file/on/network/share.txt]	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".
{anchor:anchorname}	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.

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
* A bulleted list * Second item ** indented item 1 ** indented item 2 # A numbered list # Second item ## indented item 1 ## indented item 2	Examples: <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
----------	-------------

<code> heading 1 heading 2 heading 3 </code> <code> col A1 col A2 col A3 </code> <code> col B1 col B2 col B3 </code>	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
<code>{noformat}</code>	<p>Makes a preformatted block of text with no syntax highlighting. All the optional parameters of the <code>{noformat}</code> macro are valid for the <code>{panel}</code> 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>
<code>{panel}</code>	<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><div>Some text in a basic panel</div><div>My Title Some text with a title</div></div>

```
{code}code goes here{code}
```

```
{code:title=Bar.java|borderStyle=solid}
// Some comments here
public String getFoo()
{
    return foo;
}
{code}
```

```
{code:xml}
<test>
<another tag="attribute"/>
</test>
{code}
```

The code macro displays a preformatted block for showing code with syntax highlighting. All the optional parameters of the {panel} macro are valid for {code}. The default language is Java but you can specify JavaScript, ActionScript, XML or SQL.

Examples:

Java with a title bar:

Bar.java

```
// Some comments here
public String getFoo()
{
    return foo;
}
```

A basic display with XML code:

```
<test>
  <another tag="attribute"/>
</test>
```

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): 😊, ☹️ .

Notation	:)	:(:P	:D	;	(y)	(n)	(i)	(/)	(x)	(!)
Image	😊	☹️	😜	😄	😏	👍	🗨️	ℹ️	✅	❌	⚠️

Notation	(+)	(-)	(?)	(on)	(off)	(*)	(*r)	(*g)	(*b)	(*y)
Image	➕	➖	❓	💡	💡	★	★	★	★	★

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.

Right-click the RSS icon and choose **Copy Link Address** to get the URL that you can paste into your RSS reader of choice.

Click the RSS icon to see a page with the RSS feed displayed.

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

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

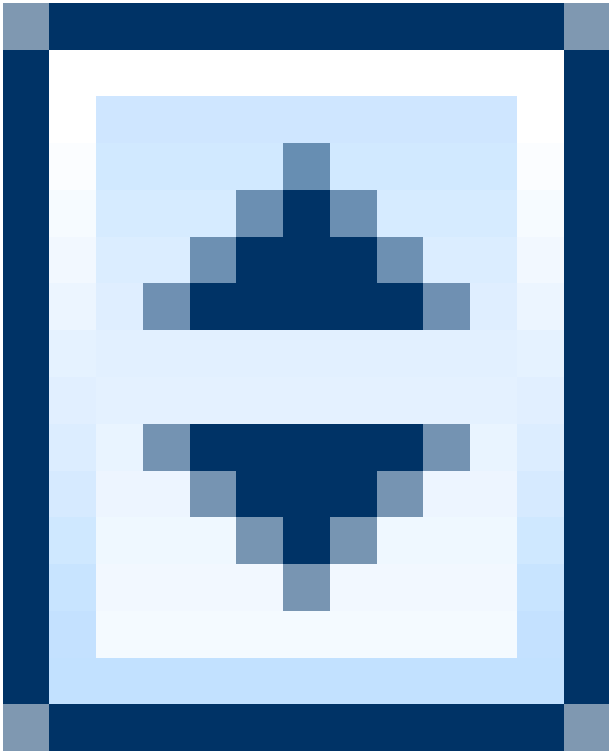
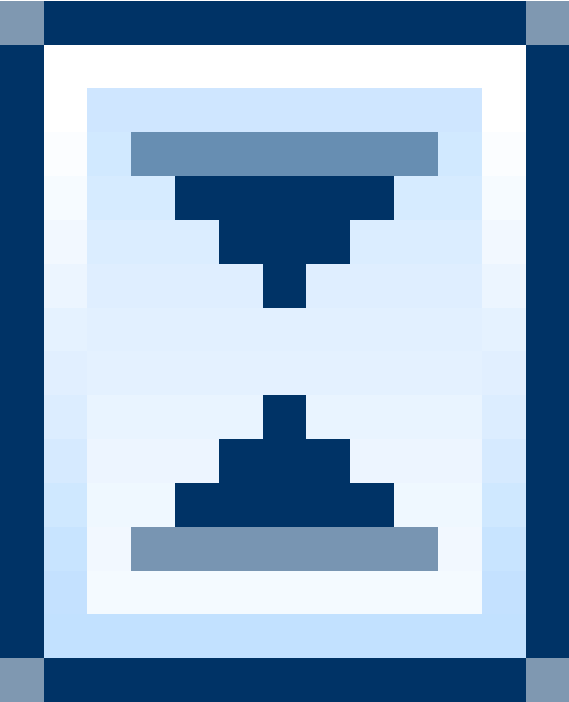
	<p>Go to the next comment</p>
	<p>Add a comment</p>

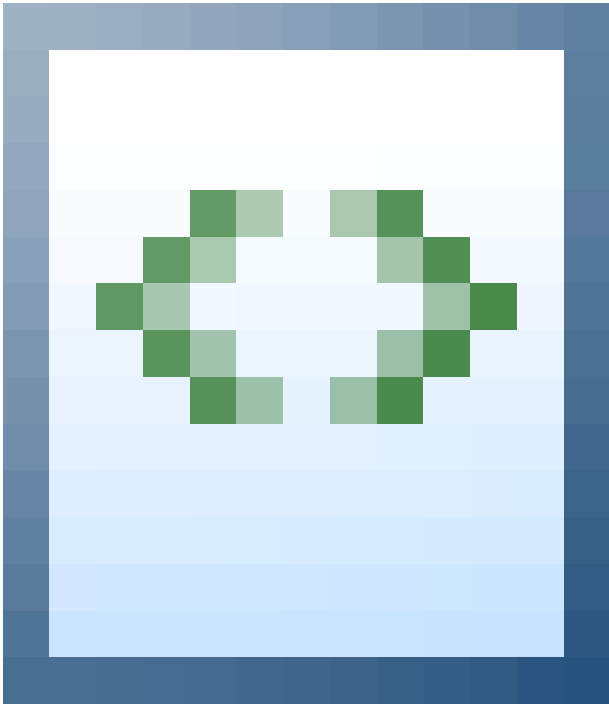
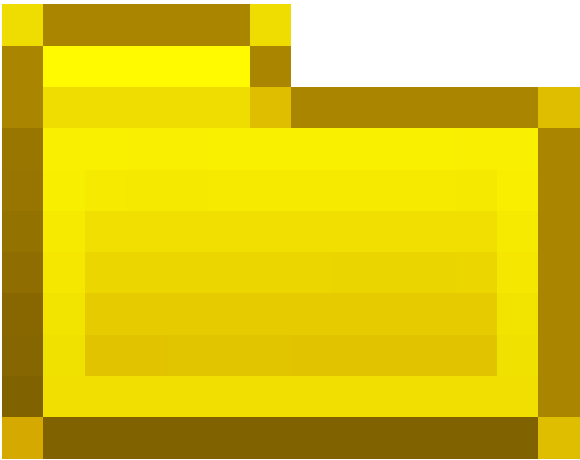


Go to the previous file in this review



Go to the next file in this review

 A square icon with a dark blue border. Inside, there is a light blue square. Within the light blue square, there are two dark blue shapes: a top shape resembling a downward-pointing arrow or a 'T' with a long stem, and a bottom shape resembling an upward-pointing arrow or an inverted 'T' with a long stem. The background of the inner square is white.	<p>Expand all files</p>
 A square icon with a dark blue border. Inside, there is a light blue square. Within the light blue square, there are two dark blue shapes: a top shape resembling a downward-pointing arrow or a 'T' with a long stem, and a bottom shape resembling an upward-pointing arrow or an inverted 'T' with a long stem. The background of the inner square is white.	<p>Collapse all files</p>

	A file included in this review
	A directory included in this review

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

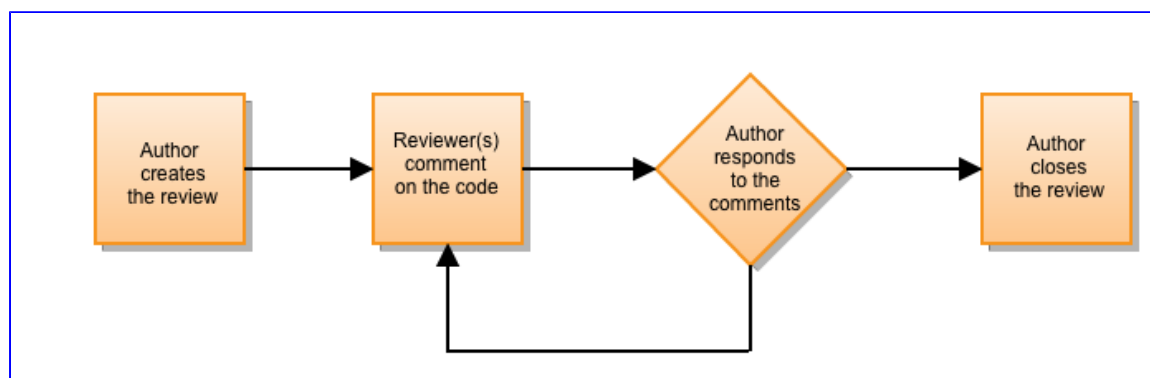
Crucible is a flexible application that caters for a wide range of team sizes and work styles. You will need to know about the basic roles used in Crucible:

- **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.

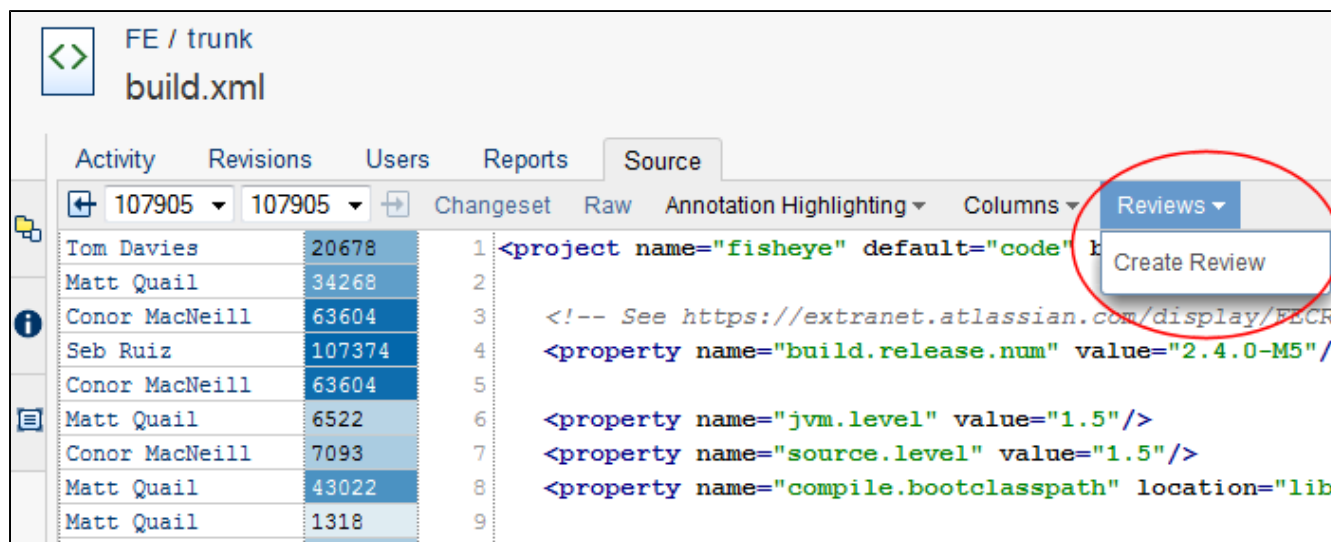
Example workflow: Two participant code review

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

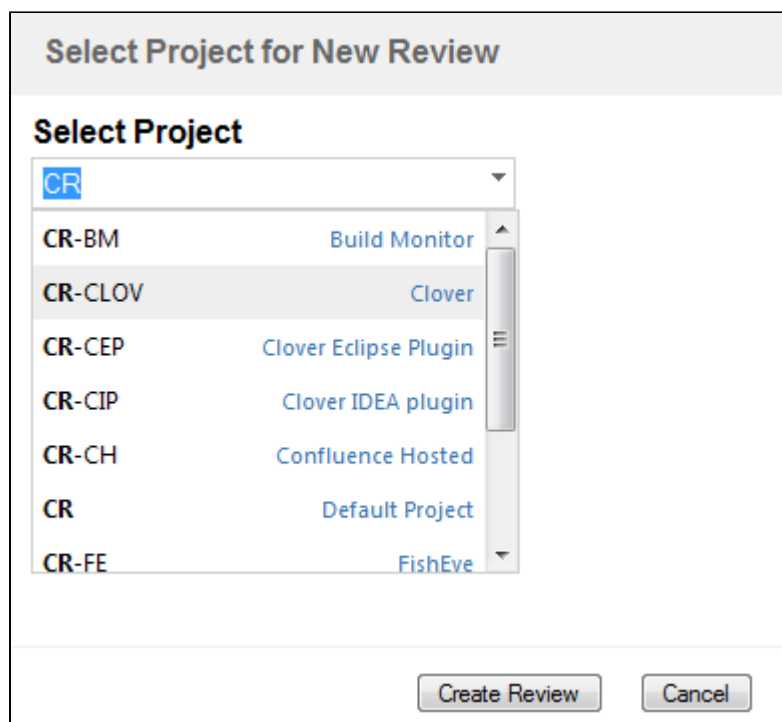
To begin, the code author sets up the review. There are a [number of ways to do this](#), but for this example, the author starts from the FishEye source view of the file he wants to review:

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.

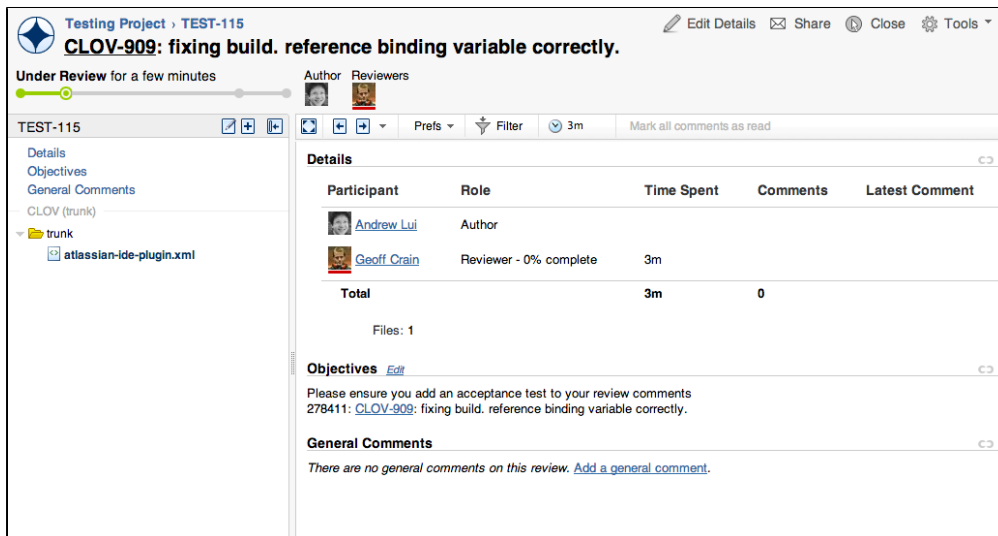
Screenshot: Creating a review in the Edit Review Details dialogue

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



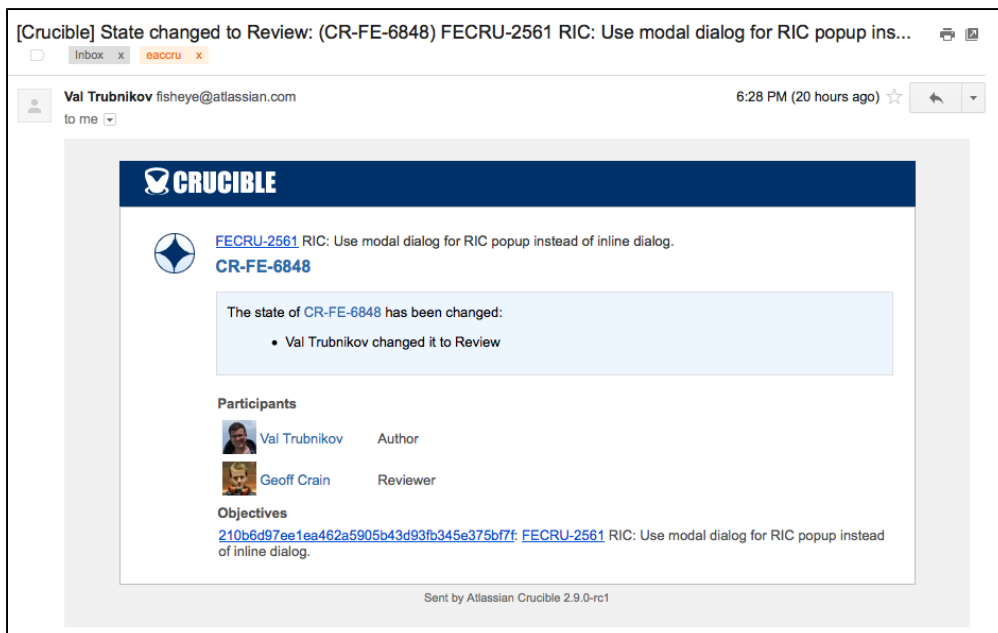
The draft review opens. In the draft stage, the author can check the contents of the review files to ensure they are correct and put in any notes for reviewers as comments. During the draft phase, no notification emails are sent out to reviewers. Once the author is finished with the draft phase, he clicks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

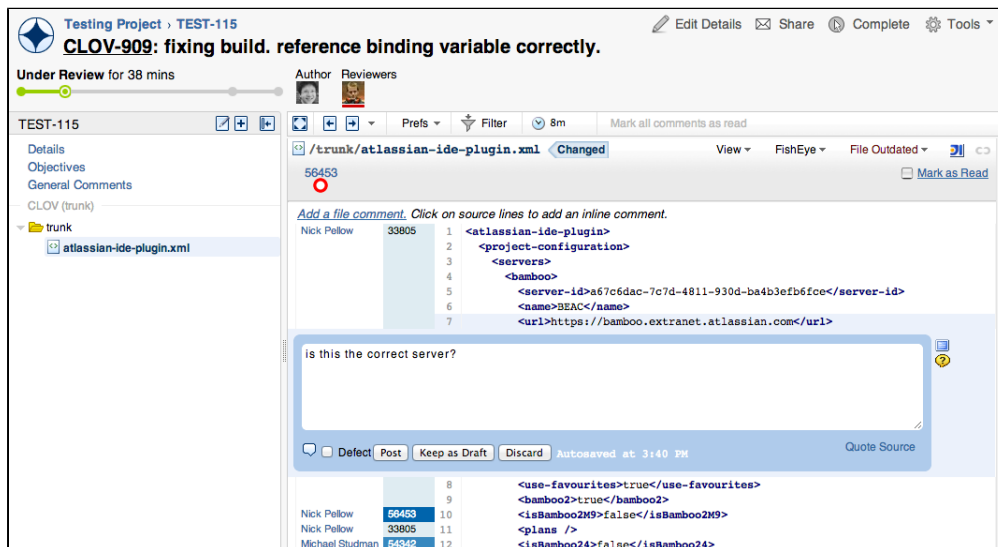
The reviewer will receive an email from Crucible with a link that they can follow to the review.

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



The Review screen displays the source files that are under review. The reviewer clicks file names to see the code to be reviewed. As the reviewer reads the changes, they can [add comments](#):

- Click **Add a general comment** (under 'General Comments' on the Review screen) to comment on the overall review.
- Click **Add a file comment** (just above the source code listing) to add a general comment about a source code file.
- Click on any line in the source file to enter a comment there (multiple lines can be selected by clicking and dragging).

The reviewer clicks **Post** to add the comment to the review.

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.

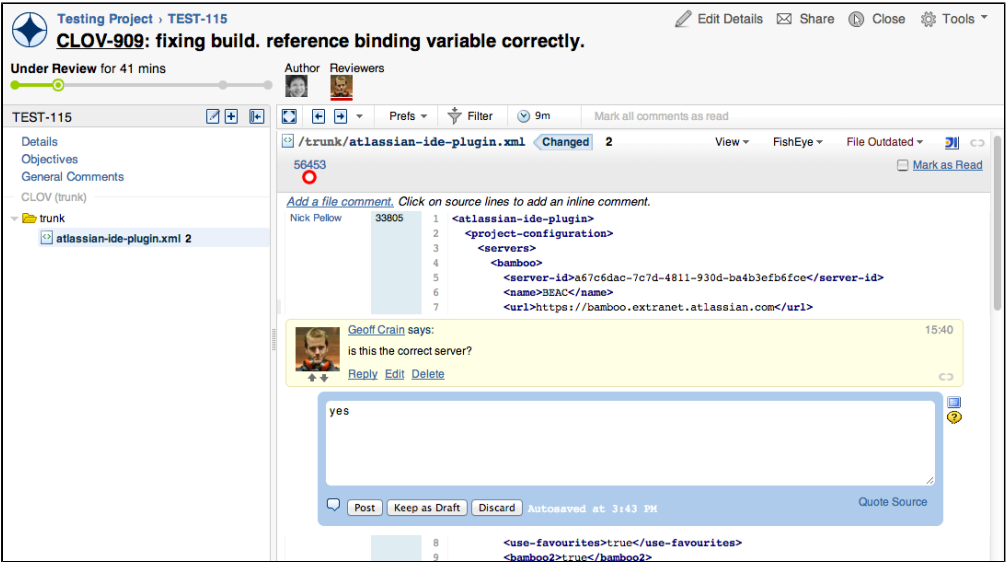
When the reviewer has finished their code review work, they click **Complete**.

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



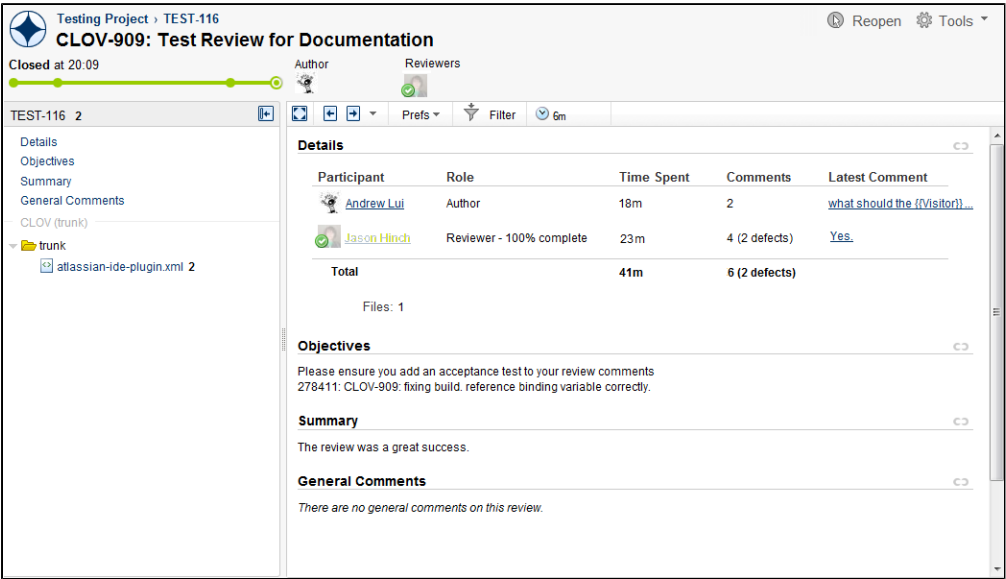
4. The author closes the review

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 can then add any final comments, and 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. This returns the status of the review to "Open", without changing the status of existing reviewers. Click **Edit Details** to add reviewers or to change other details of the review.

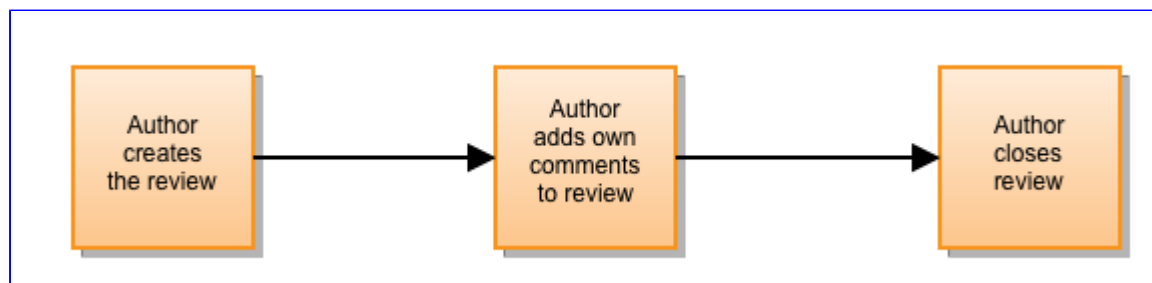
Defining your workflow

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-many reviews without a moderator \(Agile team\)](#)
- [Formal group reviews \(CMM team\)](#)

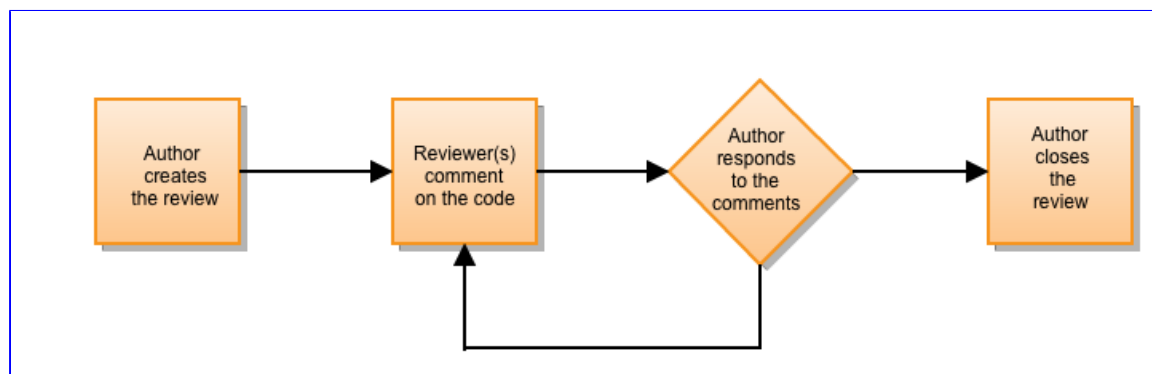
Lightweight code commenting with Crucible (individual)

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.



One-to-many reviews without a moderator (Agile team)

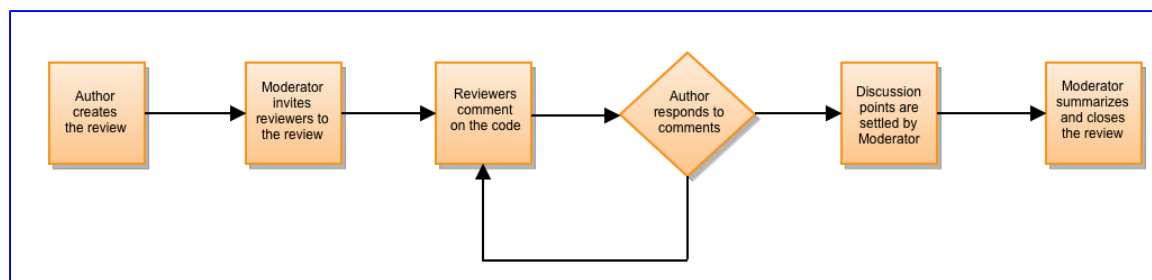
1. [Author](#) creates the review.
2. Author invites [reviewers](#) to take part in the review.
3. Reviewers make comments on the code.
4. Author responds to reviewer comments, follow-up comments are made if necessary.
5. Reviewers complete their reviews.
6. Author summarizes and closes the review.



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.



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**
 - [Author](#)
 - [Creator/Moderator](#)
 - [Reviewer](#)
 - [User](#)
- **Status classifications**
 - [Draft](#)
 - [Under Review](#)
 - [Summarized](#)
 - [Closed](#)
 - [Abandoned](#)

Roles

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

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 the steps to create a review in Crucible:

1. [Create a review](#)
2. [Add content to the review](#)
3. [Choose the reviewers](#)
4. [Complete other details for the review](#)
5. [Start the review](#)

See the [considerations](#) for when creating reviews at the end of this page.

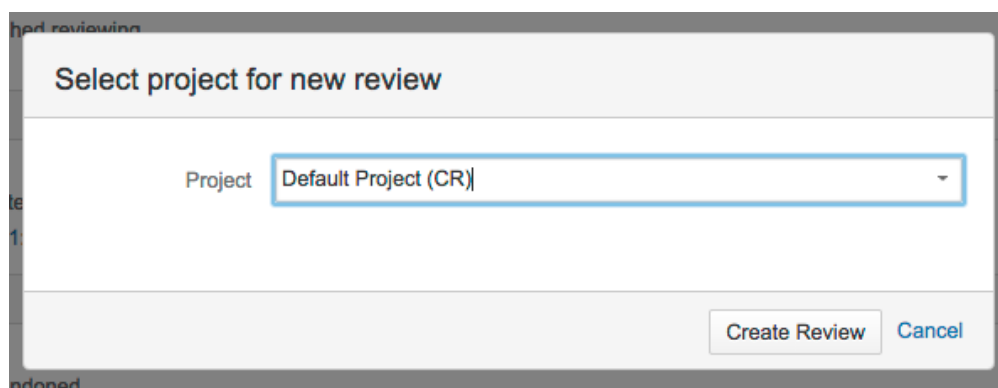
Note that only people with the 'Create' [permission](#) can create a review.

You can also create reviews by:

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

Create a review

Begin by clicking **Create review** in the header and picking the project for the review (if you have multiple projects):



Click **Create Review**.

Add content to the review

Click one of the content types to browse or search for files, branches and changesets you want to be reviewed:

Add content to Review CR-222

- Browse changesets**
Browse recent changes for revisions to add to this review
- Choose branches**
Pick one or more branches to review
- Explore repositories**
Use a directory tree to find files
- Search for files**
Use Crucible's search to find revisions to add to this review
- Pre-commit**
Upload a patch file to be reviewed - diffs of files will be extracted
- Attachments**
Upload a file to be reviewed

[Edit Details](#) [Abandon Review](#) [Start Review](#) [Done](#)

Reviews should be created with care to get the best value from them. We've found it's best not to overload the review – they should be focussed on just a few necessary files.

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

Click **Edit Details** to choose the reviewers and set other details for the review.

Choose the reviewers

You can choose individuals and groups, or allow anyone to join the review:

Project: CR

Title: Click to add title

Author: Paul Watson Moderator: Paul Watson

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

We've found it's best not to overcrowd the review – reviewers should be selected with care, and should be guided individually on what to look for.

See [Choosing reviewers](#) and [Enabling the moderator role](#) for more details.

Complete other details for the review

You can set other details for the review, including:

- the title and description
- objectives – used to guide the reviewers on what to look for. See [Setting default review objectives](#).
- a due date

- a reminder date
- linked reviews (if any)
- related JIRA issues (if any).

The project, moderator and author are pre-selected.

Edit Review Details CR-ANERDS-91

Project: CR-ANERDS

Title: **Test review**

Author: Paul Watson

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

Objectives:

Due Date:

Send Reminder: working day before [\(remove\)](#)

Linked Review: [Link](#)

Linked Issue: [Link](#)

[Add Content](#) [Abandon Review](#) [Start Review](#) [Done](#)

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

Start the review

The review will be displayed in draft mode. Here, you can check and edit the details as required.

Click **Start Review** to make the review available. See [Performing the review](#).

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

Angry Nerds Reviews

CR-ANERDS-91

[Edit Details](#)
[Start Review](#)
[Share](#)
[Tools](#)

DRAFT for a few seconds | due in 6 days

Author

Test review

CR-ANERDS-91

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

Objectives

General Comments

Number of files included: 1

angrynerds (ANERDS-7-tagging)

h2tags x

[+/-](#)
[Filter](#)
9m
Mark all comments as read
Keyboard shortcuts

Details

Participant	Role	Time Spent	Comments	Latest Comment
Paul Watson	Author	9m		
Total		9m	0	

Objectives [Edit](#)

No objectives entered. Objectives let your reviewers know what the goals of the review are and guide their feedback. [Add some objectives.](#)

Commits

Commit	Author	Date	Comment
--------	--------	------	---------

General Comments

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

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.

We recommend that reviews 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.

Each version of a file in a review counts as one revision – so when a review is created for a single modified file, that is two revisions. Each subsequent change to the file you add to the review is one more revision. A 'whole file' in a review is only one revision.

If you really need to create a larger review, you can get your system administrator to set the `crucible.review.content.size.limit` property as described on the [JVM system properties](#) page, but remember that performance will be poor when creating and viewing very large reviews.

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.

 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 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 [Linking Crucible to JIRA](#) for information on how to set up an application link with JIRA.

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

When using Crucible with JIRA 6.2.x and later

If your instance of Crucible (version 3.3 or later) is [linked](#) to JIRA 6.2 (or later), then you can start creating a review from a JIRA issue.

To create a review from a JIRA issue:

1. Go to the JIRA issue that relates to the work to be reviewed.
2. Click **Commits** in the Development panel.
3. Click the **FishEye / Crucible** tab (this exists if, for example, both FishEye/Crucible *and* Stash are linked to JIRA).
4. Start the process for creating a review for either a single commit, or for all the commits related to the JIRA issue.
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 commit 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](#).
 - Project selection popup is loaded by default with the last project used to create a review.
6. Choose **Tools > Start Review**, in Crucible, when you are ready.

When using Crucible with JIRA 6.1.x and earlier

If you have Crucible linked to a version of JIRA earlier than 6.2 (or if you have instances of Crucible 3.2, or earlier, linked to JIRA 6.2, or later), the integration functionality continues to behave as previously.

✓ [Click here if you're using JIRA 6.1 or earlier...](#)

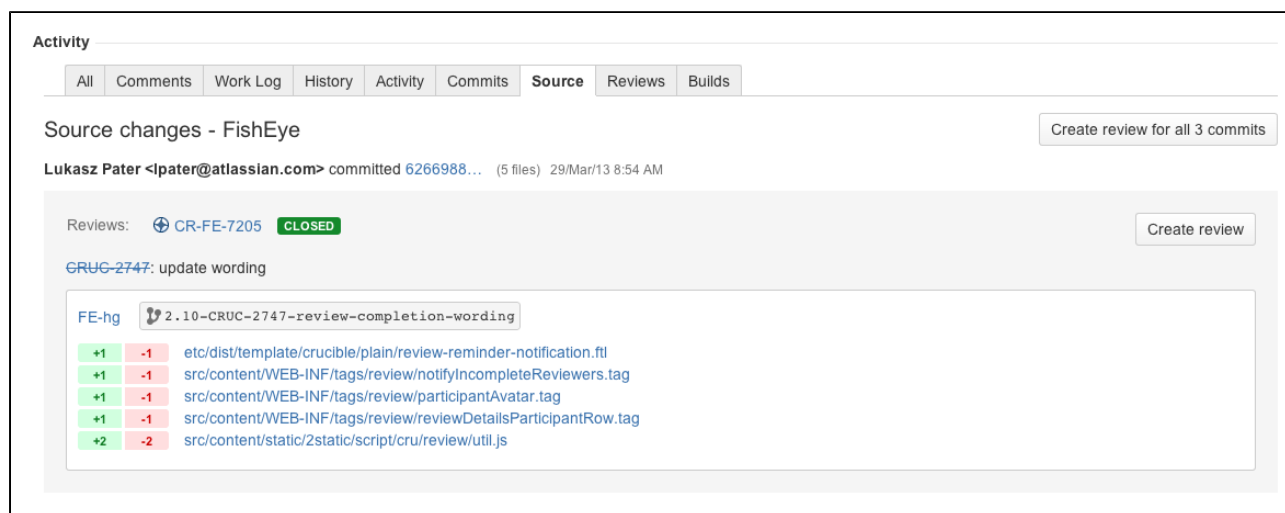
When Crucible is linked with JIRA 6.1.x, or earlier, Crucible content appears on the **Reviews** tab (and FishEye content appears on the **Source** tab) in JIRA.

To create a review from a JIRA issue:

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 //repo/csid (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

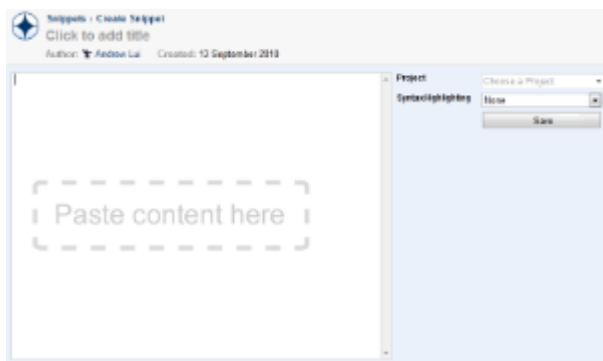
This page explains how to create a simple code review using the Crucible Snippet Review feature. Snippet Reviews are designed to be lightweight ad-hoc code reviews.

To create a snippet review:

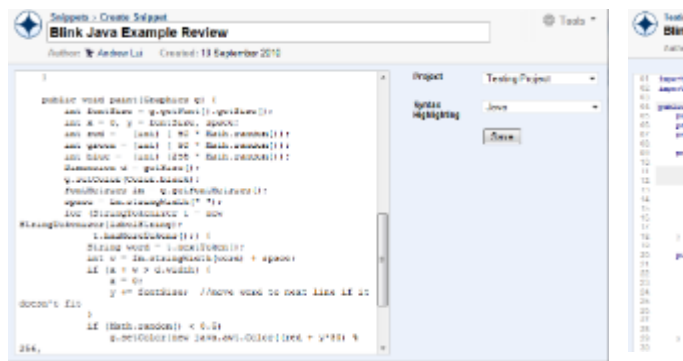
1. Copy the code to be reviewed from the source to your system clipboard.
2. Click **Create snippet** from the **Create review** menu in the Crucible toolbar.
3. Enter details for the snippet review:
 - Paste the code into the panel, where indicated.
 - Click on **Click to add title** near the top to 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](#)

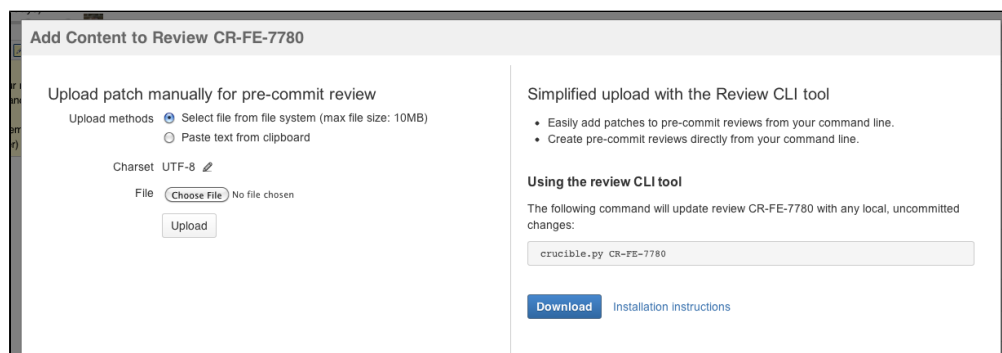
Related pages:

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

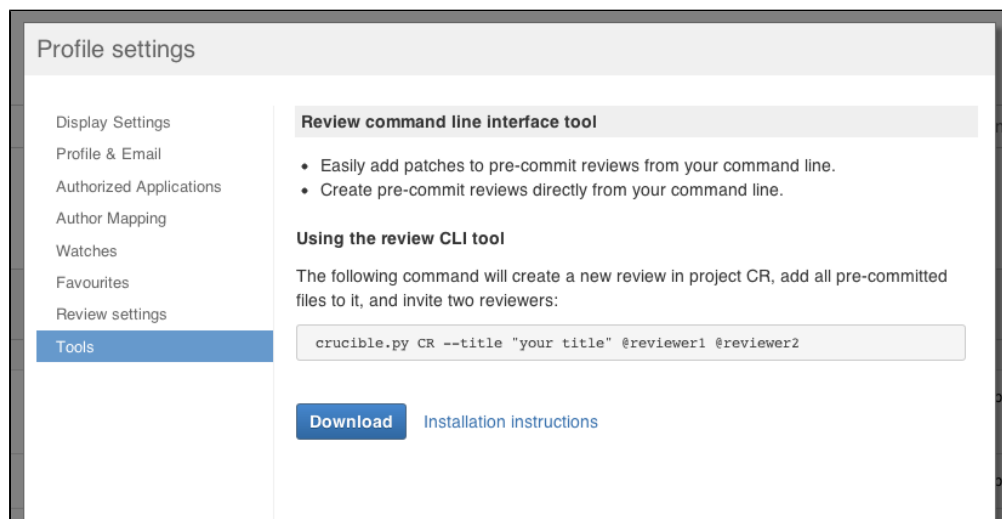
Installing the Review CLI tool

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**:



- Choose **Profile settings** from your user menu, and then **Tools**. Click **Download**:



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 repol</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.

We've found that reviews with fewer files and reviewers are more effective. Reviewers spend less time reviewing each file as the number of files increases, so don't overload the review – help your reviewers to focus on just the essential files.

Related pages:

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

On this page:

- [Overview](#)
- [Changesets](#)
- [Branches](#)
- [Repository files](#)
- [Search for files](#)
- [Patch files for a pre-commit review](#)
- [Attachments](#)

- [Choose how reviewers see the content](#)


Overview

Crucible supports post-commit and pre-commit reviews, depending on the type of content you add to the review:

- Post-commit reviews – for code changes that have *already* been committed to the SCM.
- Pre-commit reviews – for code changes that have *not yet* been committed to the SCM. [Create a patch file](#) for the code changes and then [add the patch](#) to the review.


Crucible also supports [iterative](#) reviews – you can update the review content with new versions. The reviewer can see the different versions of the files, so they can understand the changes that have been made.


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 the option for the type of content you wish to add:


Post-commit reviews	
Browse changesets	Allows you to choose changesets from a repository. Go to Selecting changesets for review below.
Choose branches	Allows you to choose branches from a repository. Go to Choosing branches for review below.
Explore repositories	Allows you to browse for files in a repository, when FishEye is installed. Go to Selecting repository files for review below.
Search for files	Allows you to search a repository for files or changesets, when FishEye is installed. Go to Searching for files to review below.
Pre-commit	Allows you to upload patch files to a review, so you can review code changes that have not yet been committed to the SCM. Create a patch file for the code changes and then add the patch to the review. Go to Adding patch files to a pre-commit review below.
Attachments	Allows you to upload any file to a review, including binary files and files outside of a repository. Go to Adding attachments to a review below.


Add content to Review CR-222


**Browse changesets**
Browse recent changes for revisions to add to this review

**Choose branches**
Pick one or more branches to review

**Explore repositories**
Use a directory tree to find files

**Search for files**
Use Crucible's search to find revisions to add to this review

**Pre-commit**
Upload a patch file to be reviewed - diffs of files will be extracted

**Attachments**
Upload a file to be reviewed

Edit Details

Abandon Review

Start Review

Done

Changesets

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

By default, Crucible displays a list of the review creator's changesets. You can see other changesets using the following options:

Repository	The repositories that contain files that can be reviewed.
Author	The authors who have made changes in the selected repository.

Branch	This shows just the recent changes on the selected branch from the selected repository.
Commit message	Filter for specific commit messages.
Scroll to changeset	Jump to a particular changeset by typing part of its changeset ID.

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 can [choose how reviewers will see the files you have added](#) (described below) by clicking **Add to Review as**.
- 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: Author:

Branch: Commit message:

Add to Review as:

Sunday 20 Mar 2011

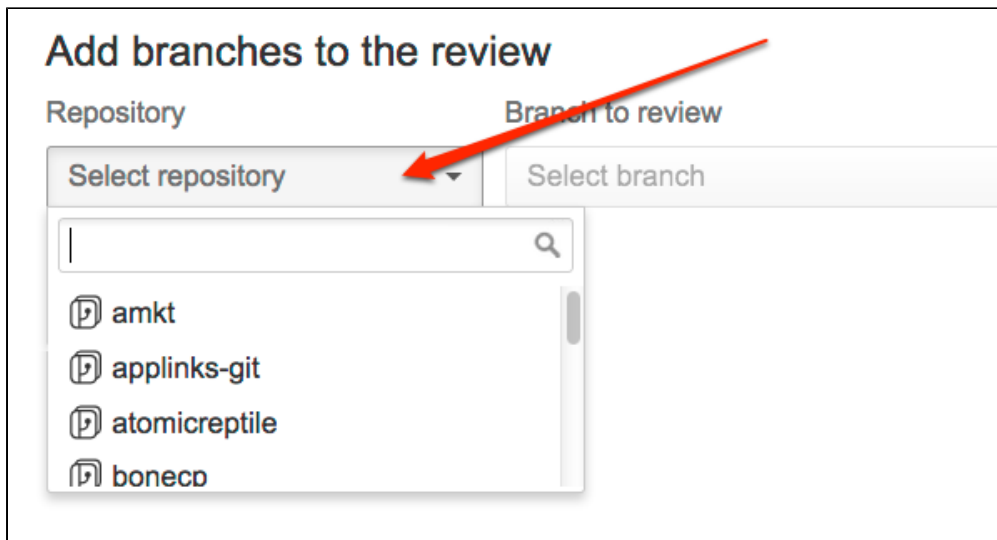
<input type="checkbox"/>	Matthew Watson	9:22 pm
<input type="checkbox"/>	40930 added 1 file trunk FOUR-24 Moved to atlassian account on bitbucket	
<input type="checkbox"/>	40929 added 1 file trunk FOUR-24 Moved to atlassian account on bitbucket	9:21 pm
<input type="checkbox"/>	40928 added 1 file trunk Moved to atlassian account on bitbucket	9:18 pm
<input type="checkbox"/>	40927 added 1 file trunk Moved to atlassian account on bitbucket	9:18 pm
<input type="checkbox"/>	40926 added 1 file trunk Moved to atlassian account on bitbucket	7:56 pm
<input type="checkbox"/>	40925 changed 1 file trunk Moved to atlassian account on bitbucket	7:51 pm

Branches

When you select a branch to be reviewed, Crucible displays a list of the changesets on the branch that have not yet been merged to the base branch – you see a quick preview of the changesets that will get added to the review.

Reviewers will only see the changes that have been made on the branch – irrelevant changes are hidden. Furthermore, your reviewers can continue reviewing even if some changes are merged from the branch.

To add a branch to a review, click **Choose branches** on the 'Add content to Review' dialog, then choose the repository that has the branch you want reviewed:



Add branches to the review

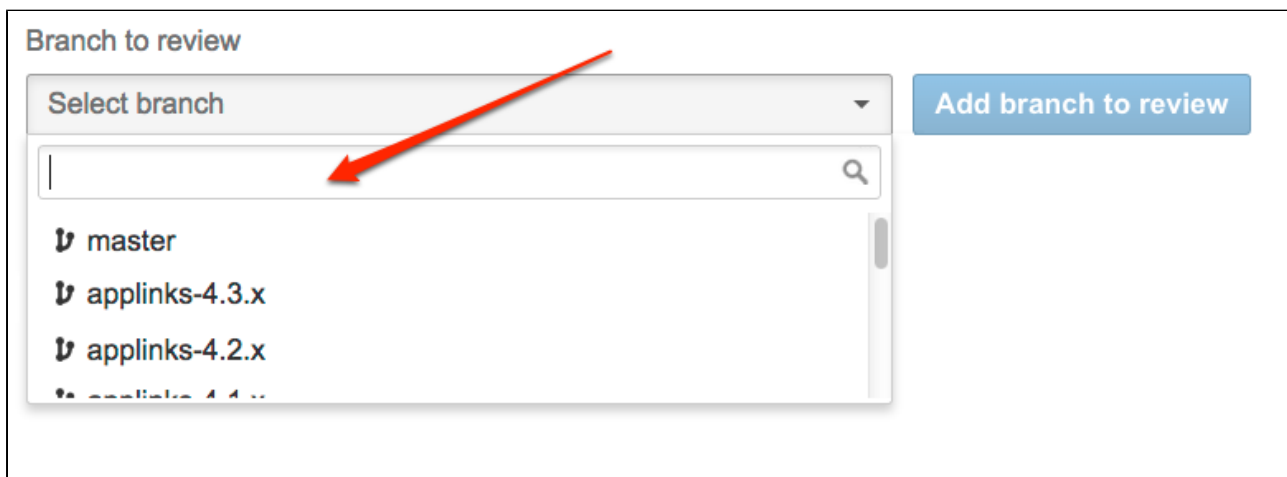
Repository Branch to review

Select repository Select branch

|

- amkt
- applinks-git
- atomicreptile
- bonecp

Now choose the branch:



Branch to review

Select branch

|

- master
- applinks-4.3.x
- applinks-4.2.x

Add branch to review

You'll see a list of the recent commits. If that all looks good, click **Add branch to review** to finish.

You can also create a branch review directly from the activity stream. Once your changeset is indexed and visible in the activity stream, just click on the cog and choose **Create review for branch**, and continue as above.

Your branch review is quickly and automatically updated whenever new commits are made to the repository branch – review participants get notified and are able to resume their reviews immediately.

You can remove files from a branch review and they won't be added again on the next update, unless there were further changes to those files. Furthermore, your reviewers are able to continue with the review even if some of the changes are merged from the branch to the base branch.

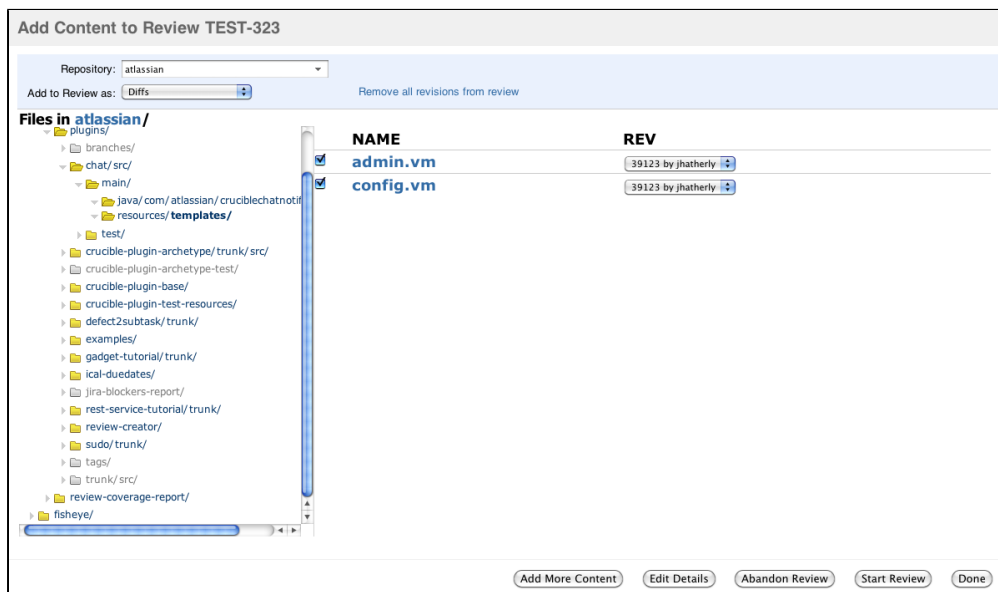
Repository files

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.
- You can [choose how reviewers will see the files you have added](#), as described below.


Note that:

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



Search for files

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.

You can [choose how reviewers will see the files you have added](#), as described below.

Add Content to Review TEST-323

Repository: atlassian
Add to Review as: Diffs
Remove all revisions from review

Search in atlassian/

Search Criteria

☐ Search all directories
☒ Only most recent versions
Comment:
Contents:
Added text:
Deleted text:
File name:
(Use Ant-globs)

Search

Author, Tags, Branch, Date, and more

Search Results

1 2 3 4 5 6 7 ... 82

Add revisions on this page | Add all 2439 revisions

1 by admin (7 years and 5 months ago) | show diffs
Initial Layout

☐ 1 (+0) new
15892 by sleberrigaud (5 years ago) | show diffs
Creating the Crucible dir on public

☐ crucible 15892 (+0) new
15893 by sleberrigaud (5 years ago) | show diffs
Creating the Crucible plugins dir on public

☐ crucible/plugins 15893 (+0) new
15894 by sleberrigaud (5 years ago) | show diffs
Creating the Crucible plugin test resources dir on public


☐ crucible/plugins/crucible-plugin-test-resources 15894 (+0) new
15896 by sleberrigaud (5 years ago) | show diffs
Creating the tags directory

Add More Content Edit Details Abandon Review Start Review Done

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

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.

Attachments

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.

Choose how reviewers see the content

When you add files to a review, you can set how reviewers will see the files, for example as the whole file, or as a diff.

Choose one of the following options from 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.

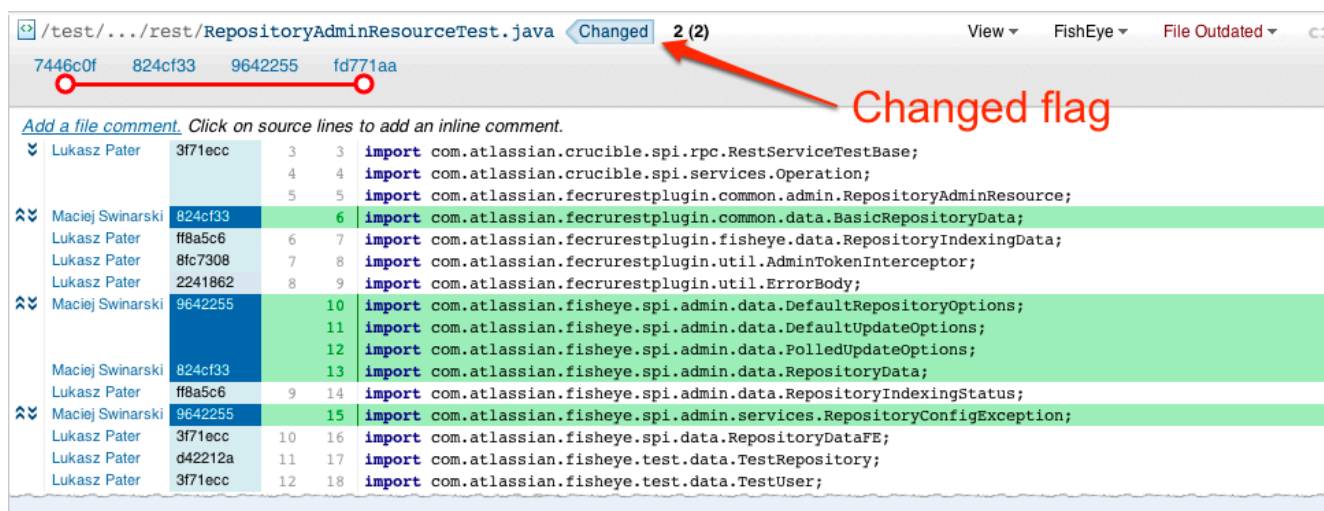
On this page:

- [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

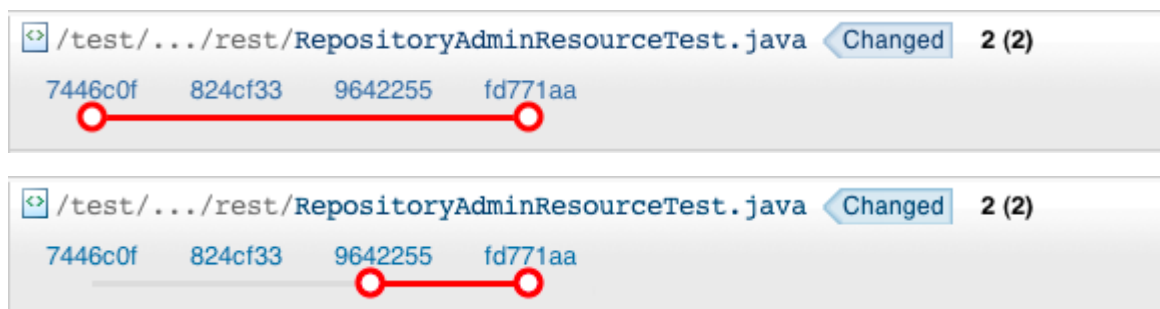
CR-10-patch-0.txt (8 minutes ago) - 2 iterations

- ☒ **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

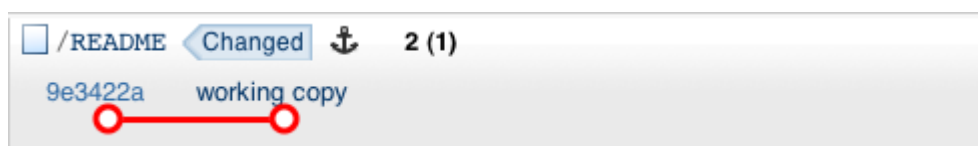
Crucible allows the reviewer to see the different revisions of a file within the same review. The 'slider' in the file view allows you to interactively select which revisions are compared in the displayed diff, and to see the full source content. Comments are connected to, and displayed with, a specific 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](#)

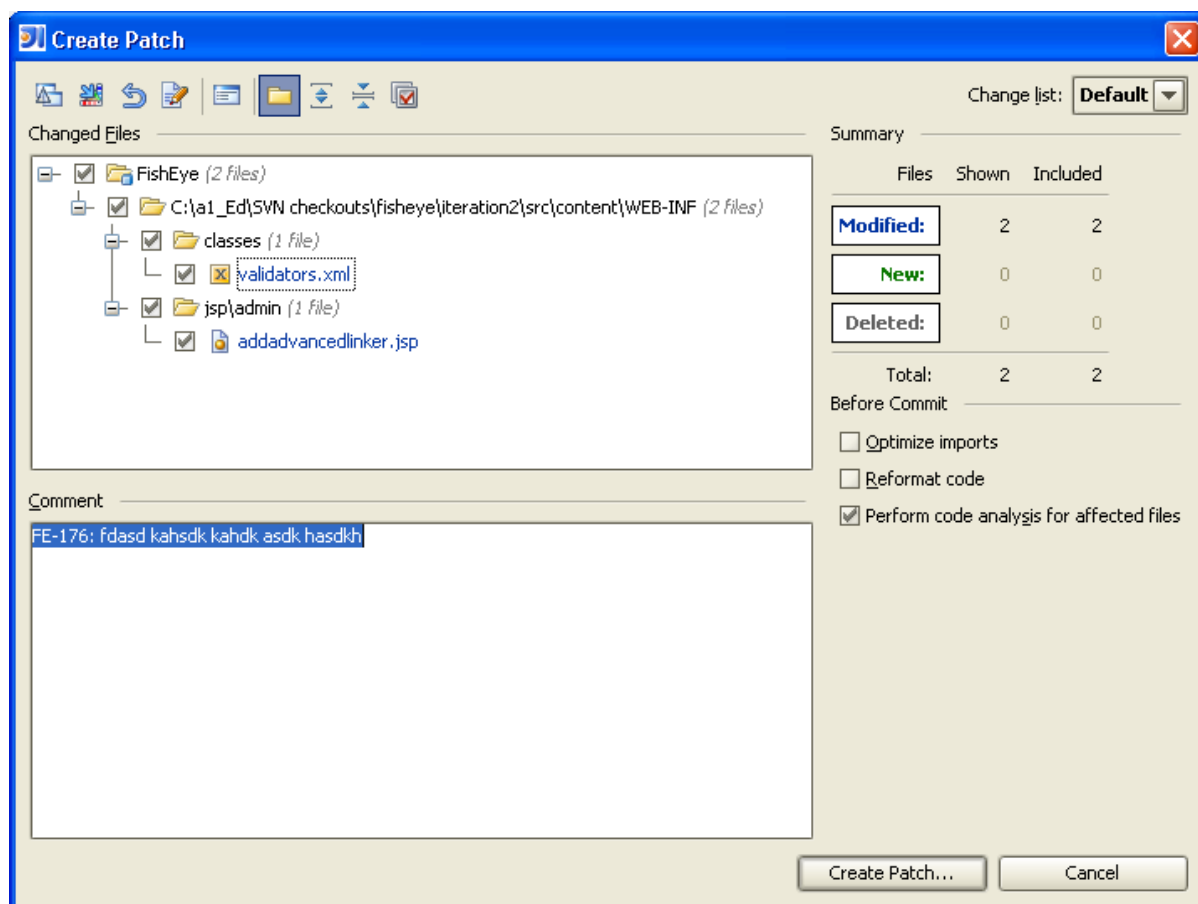
As an enhancement, Crucible's [patch anchoring](#) adds context:

- By default, patch files will only show a few lines of code surrounding each change, rather than the entire file and its changes. Patch anchoring overcomes this limitation.

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**:

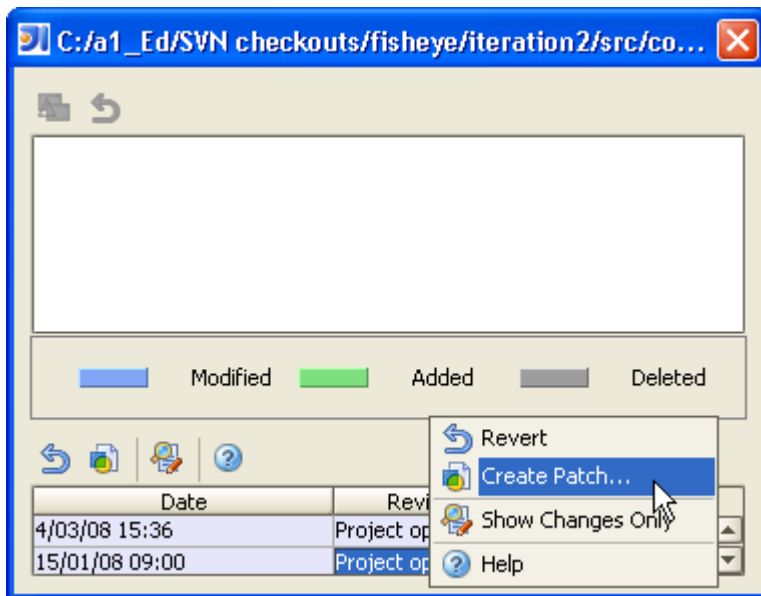


3. Click **Create Patch**, choose a location to save the patch file to, and click **OK**.

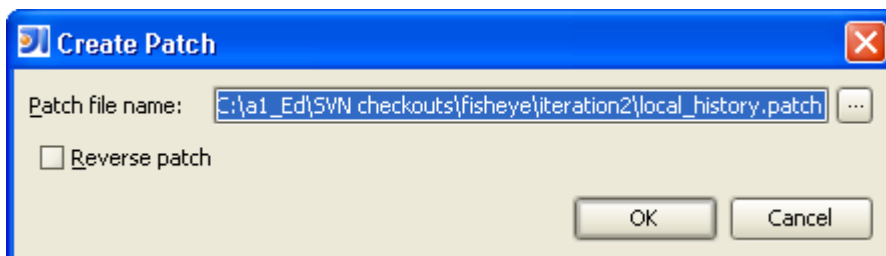
If you do not have the Create Patch command available in IDEA

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**.



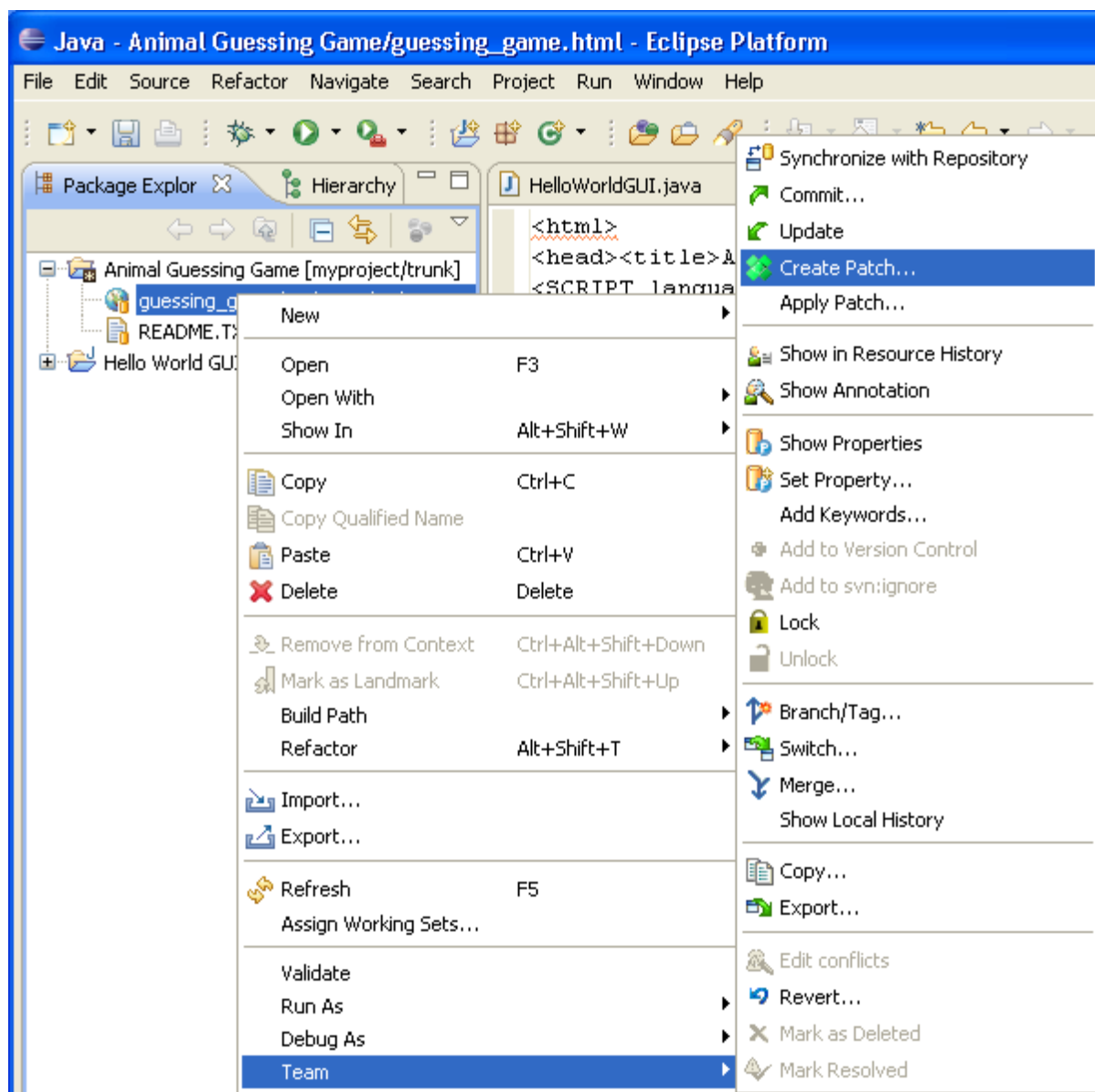
2. In the Local History view, right-click the revision number, and choose **Create Patch**.



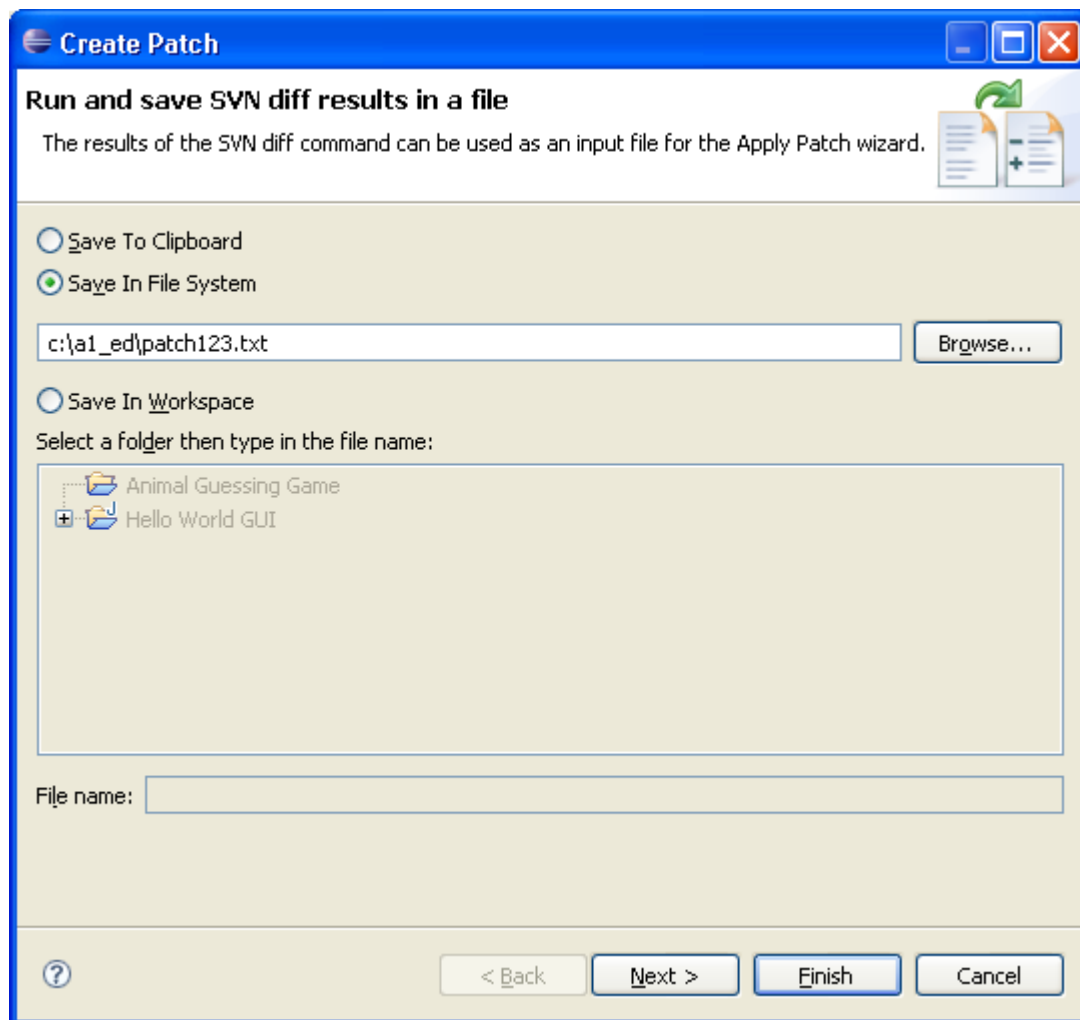
3. In the Create Patch dialog, choose a location for the patch file and a file name, then click **OK**.

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

Create patches yourself, directly from the SCM, using the following commands, where `patch.txt` represents your name for the new patch file.

Then you can use the dedicated Crucible Review CLI tool to create reviews for your patches and commits, directly from your terminal. See [Creating reviews from the command line](#).

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	<pre>svn 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> <code>svn diff</code> does not print any information about files copied in the workspace.</p>
	<pre>svn diff --diff-cmd diff -x "-U 10000" > patch.txt</pre>	<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	<p>Crucible 3.3.1 or earlier:</p> <pre>p4 diff -dcu > patch.txt</pre> <p>Crucible 3.3.2 or later:</p> <pre>p4 -z tag diff -du > 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>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). Later versions of Perforce do not support <code>-dcu</code>, so <code>-z tag</code> should be used instead.</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).

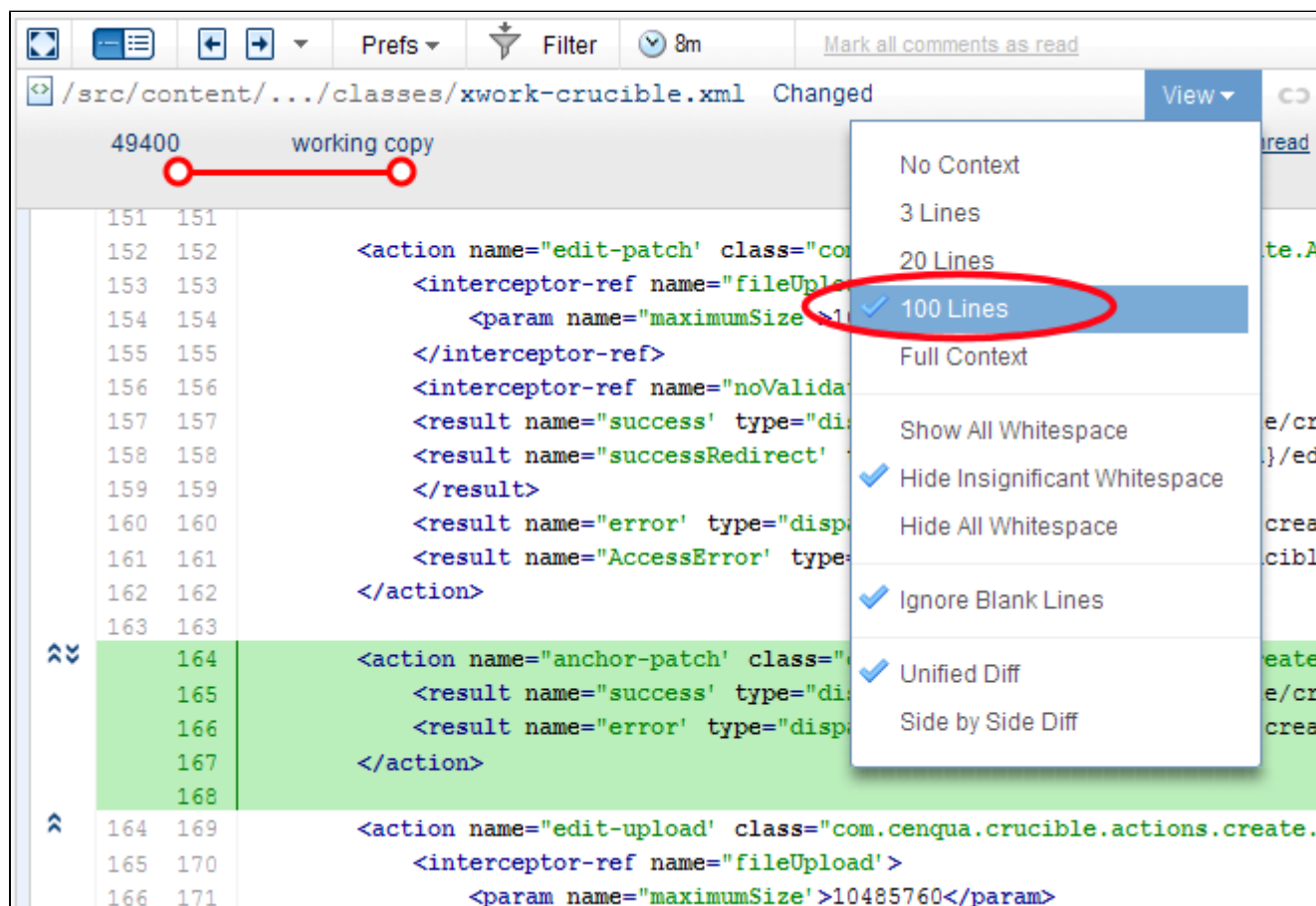
To use patch anchoring:

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.

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

When you start the review, and view a diff, you will be able to choose more than three lines of context from the **View** menu.

Screenshot: Viewing more than three lines with Patch Anchoring



Choosing reviewers

This page describes how to add reviewers (as a mix of individual users and groups) to a new review, after it has been created. See [Creating a review](#) for information about creating reviews.

Before a review can be started, you need to choose reviewers. To add reviewers you just click **Edit Details** for the review.

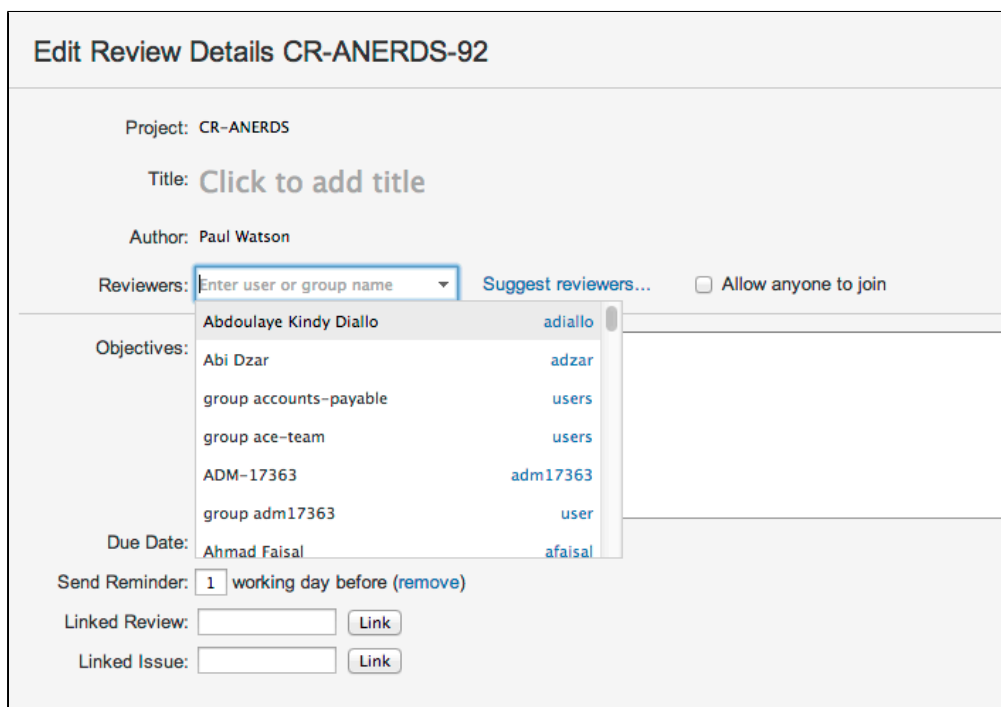
Adding users to a review

You can choose reviewers from available Crucible users and groups by typing names into the **Reviewers** field. The users and groups that are available to be reviewers are determined by the project's settings for **Default**

Reviewers – see [Creating a project](#).

When adding a group to a review, only the first 9 users in the group are added – extra users must be added individually. Note that a Crucible administrator can set the number of users added from a group by using the `crucible.users.per.group.in.review` property – see [JVM system properties](#).

You can also allow any Crucible user to add themselves as a reviewer by selecting **Allow anyone to join**.



Edit Review Details CR-ANERDS-92

Project: CR-ANERDS

Title: [Click to add title](#)

Author: Paul Watson

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

Objectives:

- Abdoulaye Kindy Diallo [adiallo](#)
- Abi Dzar [adzar](#)
- group accounts-payable [users](#)
- group ace-team [users](#)
- ADM-17363 [adm17363](#)
- group adm17363 [user](#)
- Ahmad Faisal [afaisal](#)

Due Date:

Send Reminder: working day before (remove)

Linked Review: [Link](#)

Linked Issue: [Link](#)

Click **Done** to save the review as a draft for later issue.

Click **Start Review** to begin the review immediately.

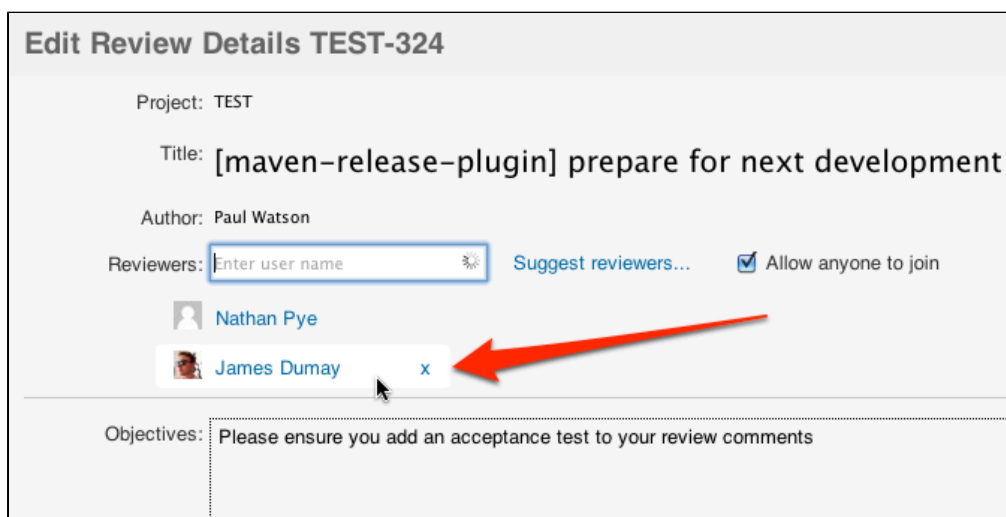
Suggested reviewers

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.

Removing reviewers

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

Click **Edit Details** for the review, 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

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, they click **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](#).)

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](#)
- [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 shows your current reviews and other activity related to you.

Use the Dashboard to manage your reviews – see [Browsing all reviews](#).

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.

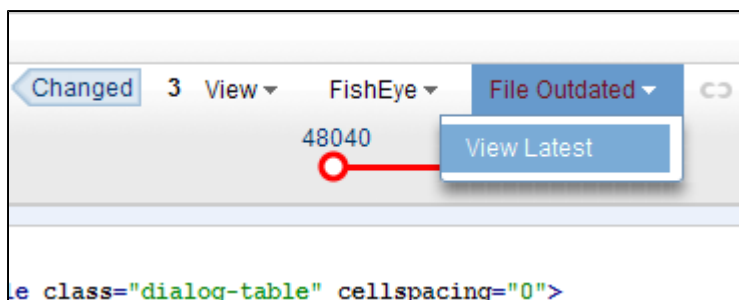
If email notifications are enabled (see [SMTP settings](#) in the FishEye documentation), reviewers will receive an email with information about the review. Click the link within the email to go directly to the review.

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:



Next steps

- [Starting a review](#)
- [Adding comments](#)
- [Sending a review's comments via email](#)
- [Changeset discussions](#)
- [Flagging defects](#)
- [Viewing reports](#)
- [Completing your review](#)
- [Using the Review History Dialog](#)

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.

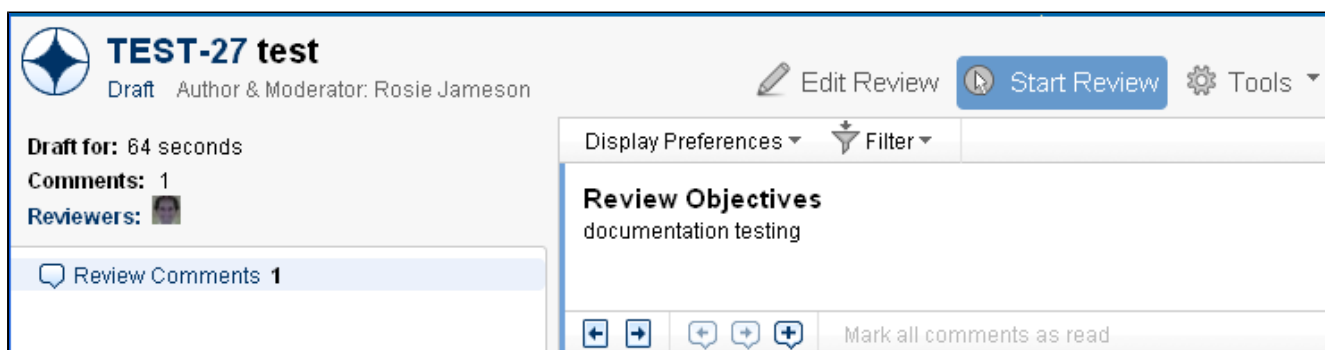
Once you have [selected the reviewers](#), the next stage is to notify the [reviewers](#) and the [author](#) (if different to the [moderator](#)) that they can start reviewing. The review has been in 'Draft' [state](#) until this point. Only the moderator has the permission to start a review.

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.

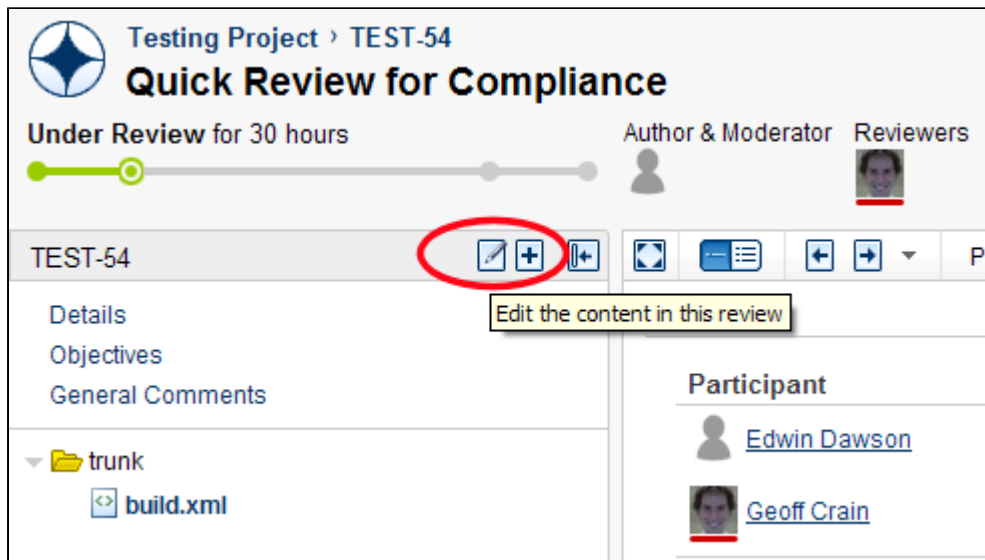
Editing a review once started

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

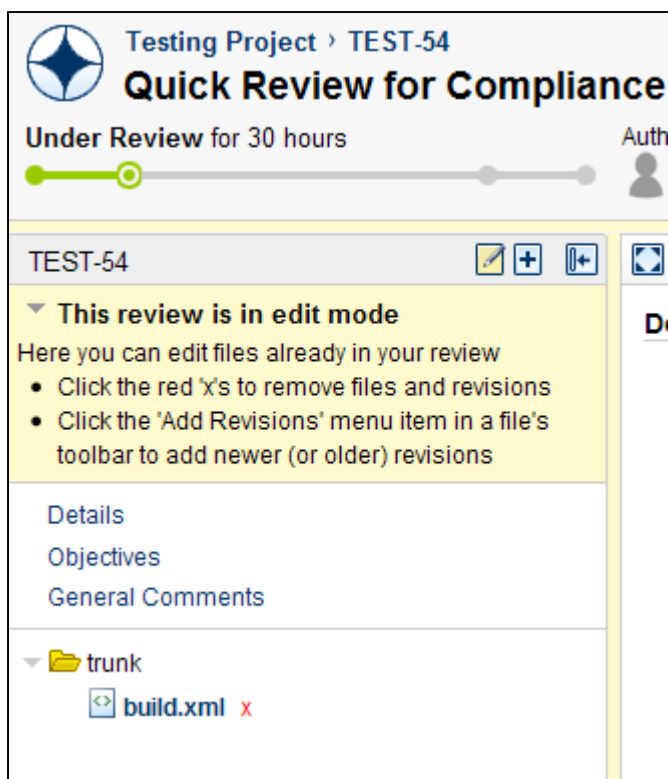
- Add files to a review by clicking the 'Add content' button.
- Remove files by clicking the 'Edit' button in the left navigation panel, then clicking the red cross icons beside files to be removed.

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:

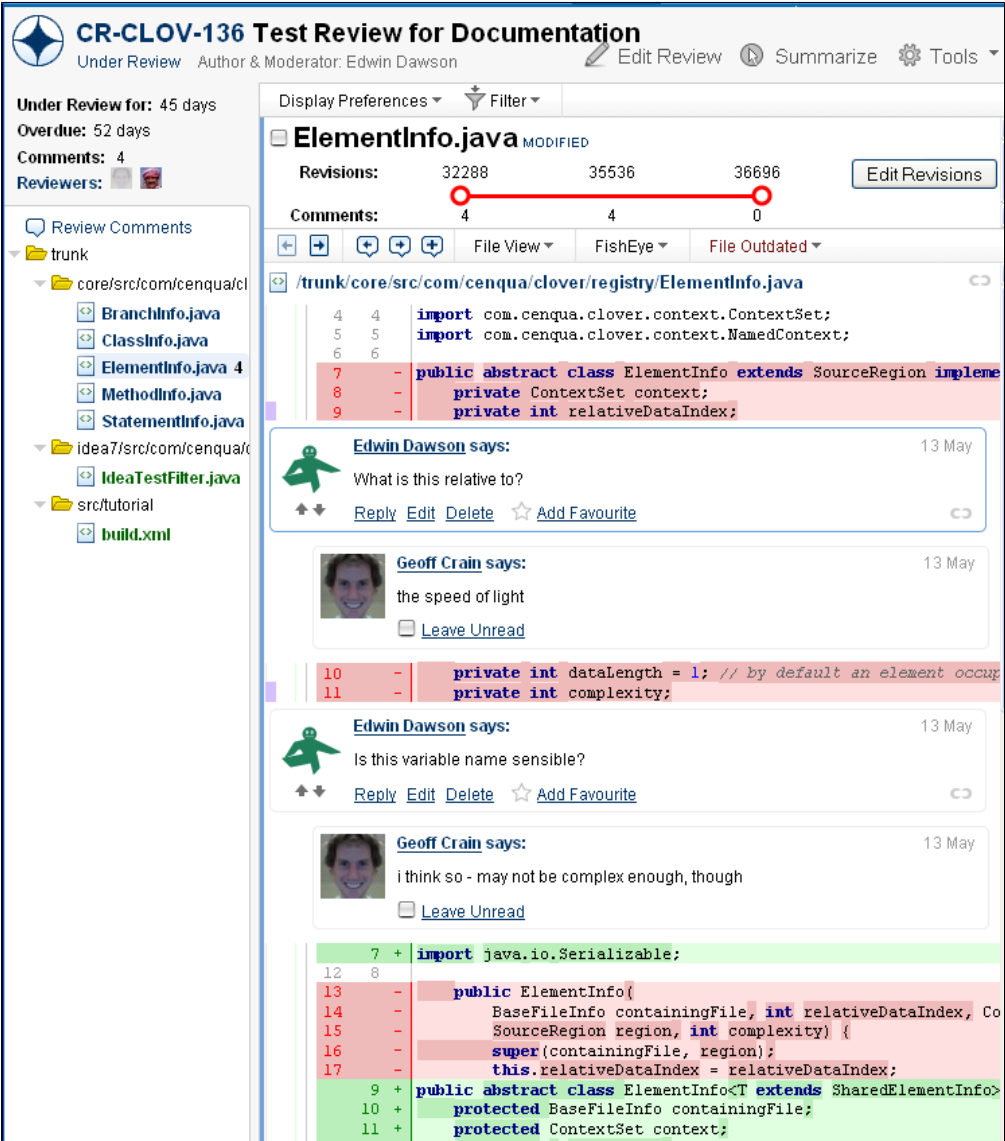
- [Locating existing comments](#)

- 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.)

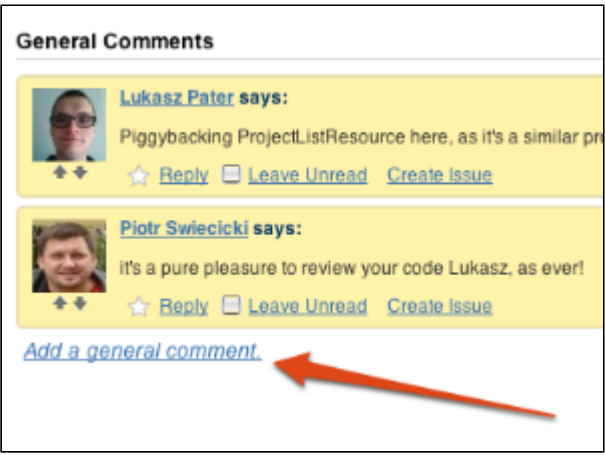
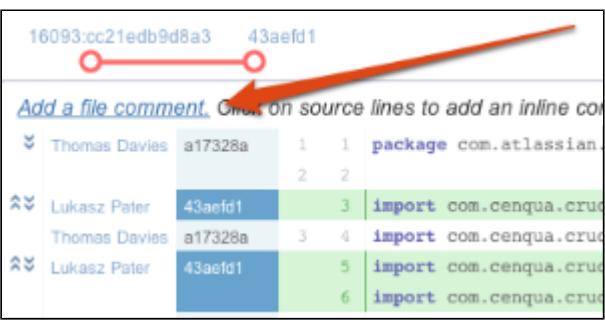
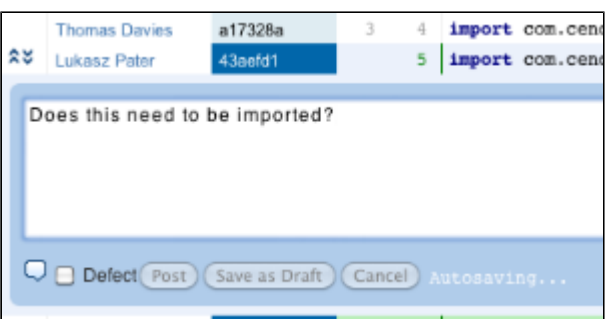
Screenshot: Comments




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 (under 'General Comments').	
A source file under review	Click on the file in the left-hand panel, then click Add a file comment (just above the source code listing).	
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.

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.

Sending a review's comments via email


You can download all of the comments from a review as plain text, so that you can send that 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.

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

1. In Crucible, navigate to the review in question.
2. Choose **Tools > Download as Text**.
3. Copy the on-screen text and paste it into an email.
4. Send.


Changeseet 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:

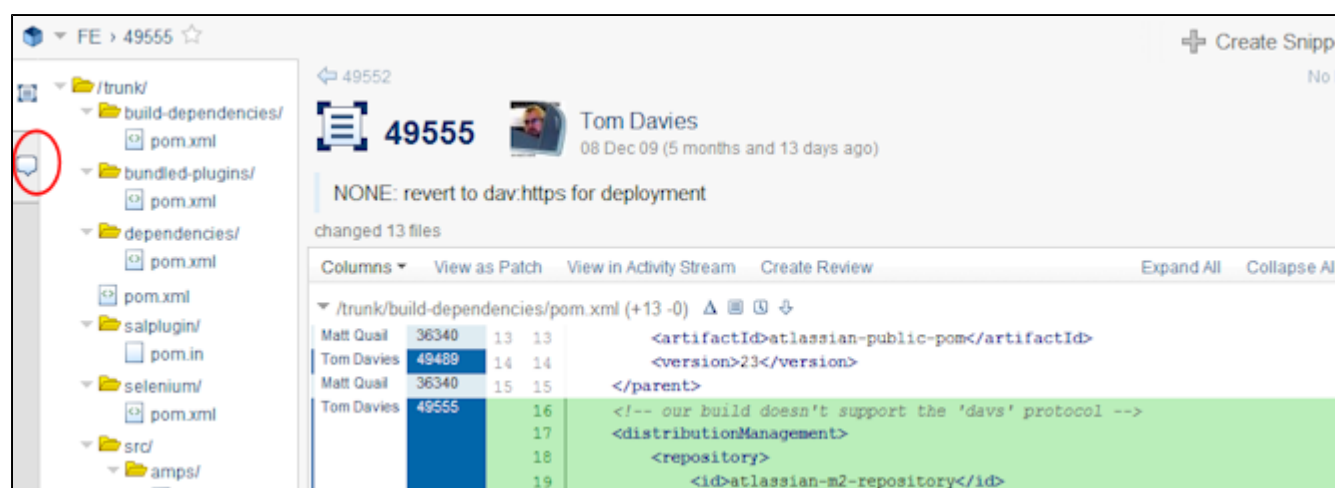
1. Click on a changeset on the **Commits** tab for the repository. Display comments by clicking **Discuss** at the upper right corner, or the speech bubble icon  in the left margin.
2. Click **Add a comment** (under the repository details near the top left).
3. Type your comment. If required, you can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

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.

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](#)

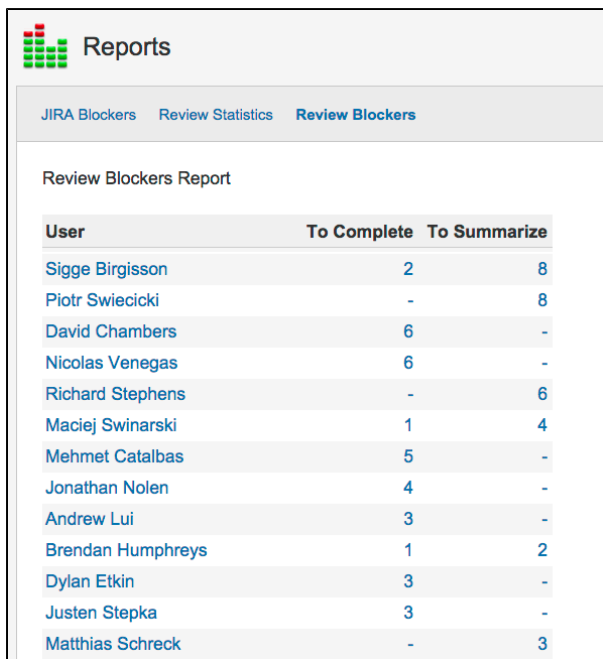
See also:

- [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
Sigge Birgisson	2	8
Piotr Swiecicki	-	8
David Chambers	6	-
Nicolas Venegas	6	-
Richard Stephens	-	6
Maciej Swinarski	1	4
Mehmet Catalbas	5	-
Jonathan Nolen	4	-
Andrew Lui	3	-
Brendan Humphreys	1	2
Dylan Etkin	3	-
Justen Stepka	3	-
Matthias Schreck	-	3

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**. Note that the **JIRA project's version** field refers to the **Fix Version/s** field in your JIRA tickets.

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



Reports

[Reviews](#)
[Reports](#)

[JIRA Blockers](#)
[Review Blockers](#)

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
FE-1073	CR-FE-3635	Conor MacNeill
FE-2656	CR-FE-3644	Conor MacNeill Tim Pettersen
FE-2665	CR-FE-3839	Joe Xie™ Michael Heemskerk Tom Davies

Reviewer	Incomplete reviews
Conor MacNeill	2
Joe Xie™	1
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

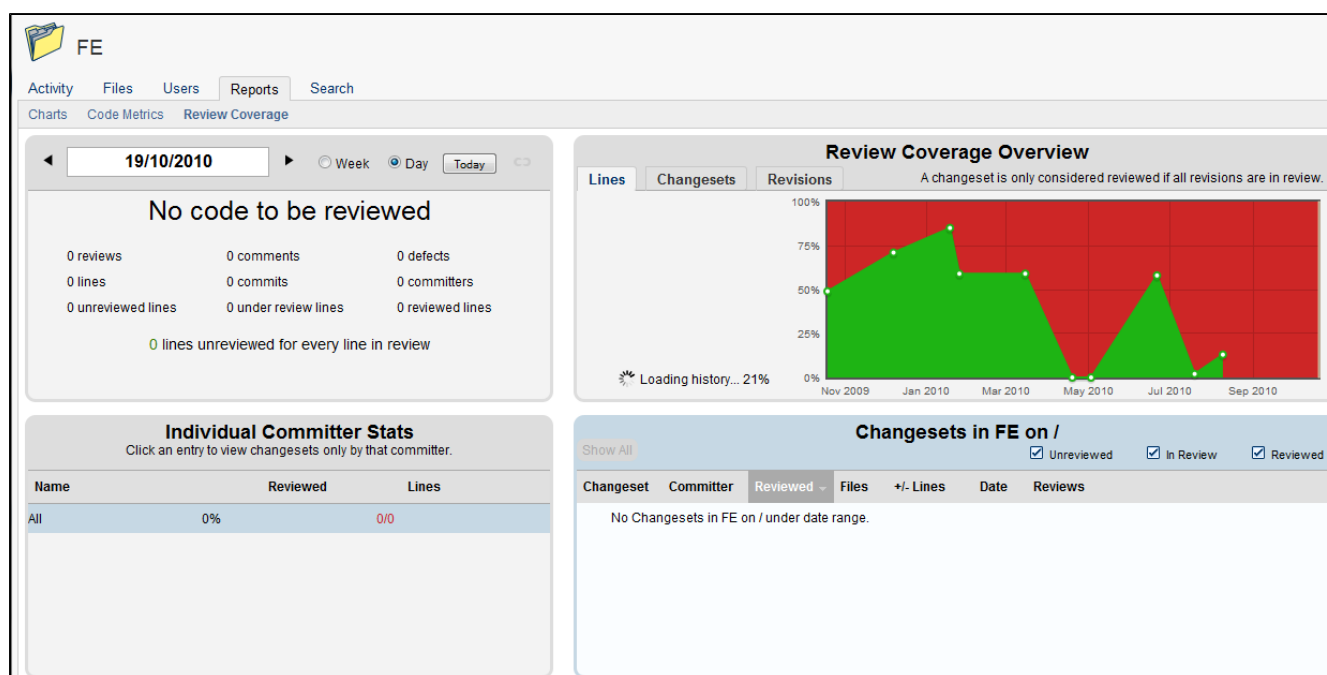
Crucible has useful reports that show you detailed statistics on review activity. The Review Coverage report allows you to see how much of the code, and which files, in your repository have been reviewed, and when. You can also access the reviews.

 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 Stats panel](#)
- [Using the Changesets panel](#)


Screenshot: *The Review Coverage report*



Opening the Review Coverage report

To open the Review Coverage report:

1. Click **Repositories** and choose a repository. The repository you chose sets the scope for the report.
2. If desired, navigate down the tree (in the lefthand panel) and click the desired path you want to view coverage on.
3. Click **Reports** in the secondary toolbar.
4. Click **Review Coverage** from the list of reports in the upper panel.

 You can view coverage of any path by navigating 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 displays the following metrics for your selected repository:

- 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



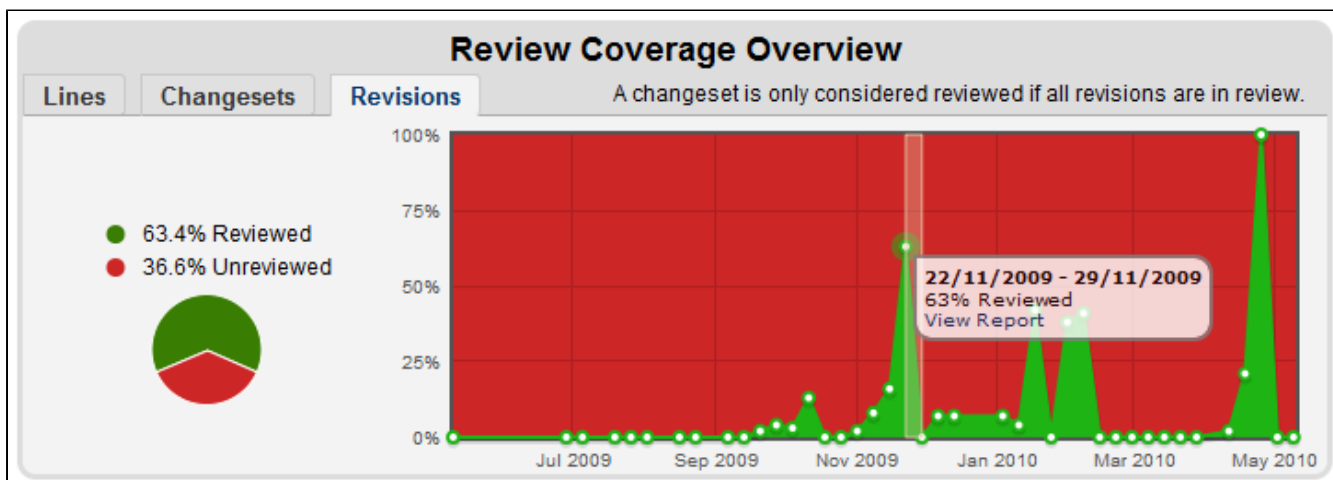
Note: Code coverage metrics only apply for post-commit reviews.

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 Stats panel

The Individual Committer Stats 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	gcrain	58%	408/706
12th	tdavies	26%	306/1,182
All		66%	3,692/5,605

Using the Changesets panel

The Changesets 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 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></div></div>	16	+297 / -308	1 Feb	
▶ 54110	sruiz	<div><div></div></div>	12	+387 / -106	1 Feb	⊕ CR-FE-3071
▶ 54199	csharki...	<div><div></div></div>	5	+192 / -161	2 Feb	⊕ CR-FE-3082
▶ 54249	sruiz	<div><div></div></div>	6	+134 / -136	2 Feb	⊕ CR-FE-3071
▶ 54322	csharki...	<div><div></div></div>	6	+174 / -68	3 Feb	⊕ CR-FE-3082
▶ 54228	nvenega...	<div><div></div></div>	8	+73 / -82	2 Feb	⊕ CR-FE-3090
▶ 54155	mquail	<div><div></div></div>	2	+151 / -1	1 Feb	
▶ 54555	abutti...	<div><div></div></div>	6	+83 / -63	5 Feb	⊕ CR-FE-3073
▶ 54390	gcrain	<div><div></div></div>	3	+72 / -73	4 Feb	⊕ CR-FE-3099
▶ 54125	abutti...	<div><div></div></div>	9	+77 / -62	1 Feb	⊕ CR-FE-3054
▶ 54321	tdavies	<div><div></div></div>	12	+79 / -59	3 Feb	⊕ CR-FE-3079
▶ 54244	cmacnei...	<div><div></div></div>	1	+67 / -67	2 Feb	
▶ 54307	abutti...	<div><div></div></div>	3	+63 / -71	3 Feb	⊕ CR-FE-3095
▶ 54191	gcrain	<div><div></div></div>	4	+86 / -46	2 Feb	
▶ 54330	sruiz	<div><div></div></div>	3	+71 / -50	3 Feb	⊕ CR-FE-3096
▶ 54159	tdavies	<div><div></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:



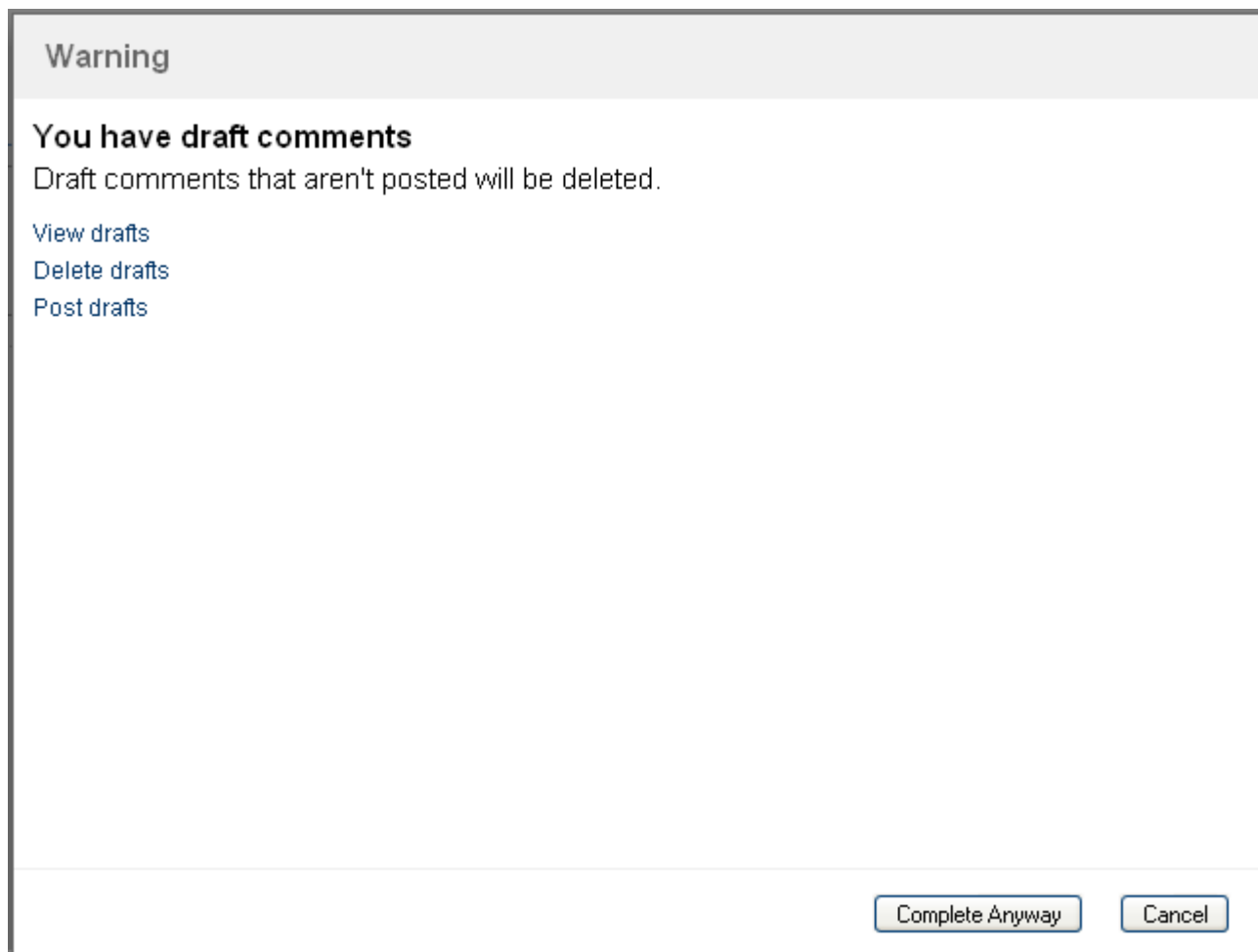
i Only people with the 'Complete' permission can complete a review.

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



Review Complete

You have marked TEST-27 as completed.
The following reviewer is not yet finished:

 [Geoff Crain](#)

You can continue to add new comments and reply to comments until the moderator ( [Rosie Jameson](#)) summarizes the review.

Reviews requiring your attention:

Task	Review	Owner	Due
Review	CR-FE-2170		03 Jul
Summarize	TEST-11		-

[Dashboard](#)[Close](#)

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.

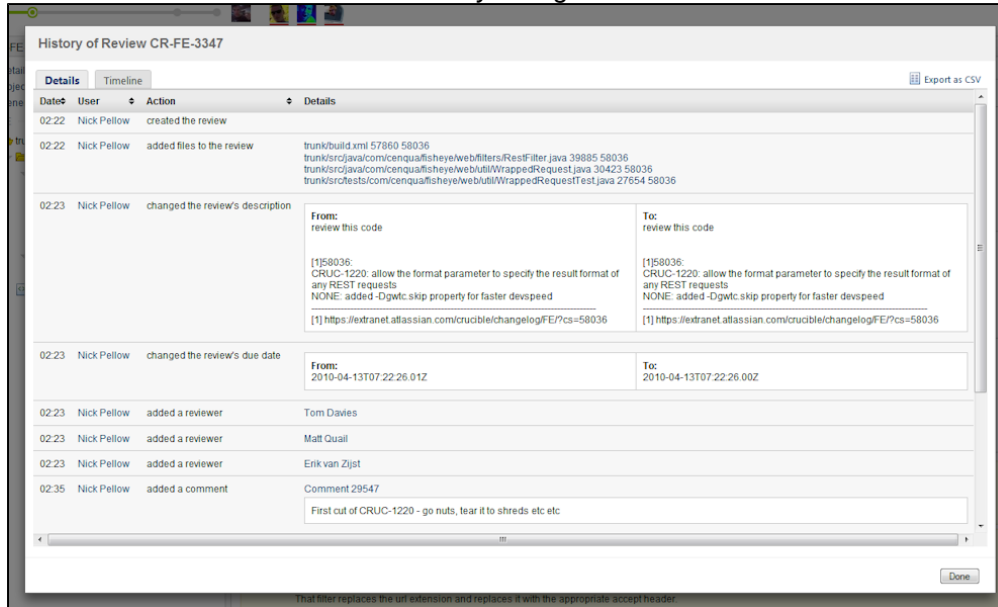
To open the Review History dialog:

1. Open a review in Crucible.
2. Choose **Tools > View Review History** from the top right of the screen.

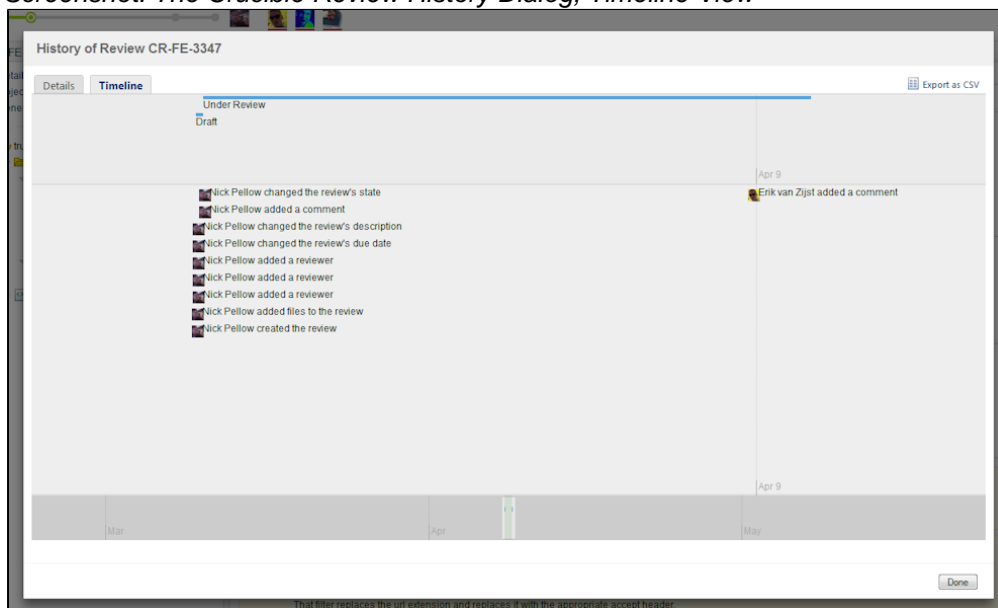
Click the **Timeline** tab at the top of the History dialog to see the review's events in a horizontal calendar. You can drag the calendar and the timeline at the bottom to scroll to other events.

Click **Export as CSV** near the top right to export the entire review history, 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



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 **Close**.

Note that you need the '[Summarize](#)', '[Close](#)' or '[Re-Open](#)' permission to summarize, close or re-open a review.

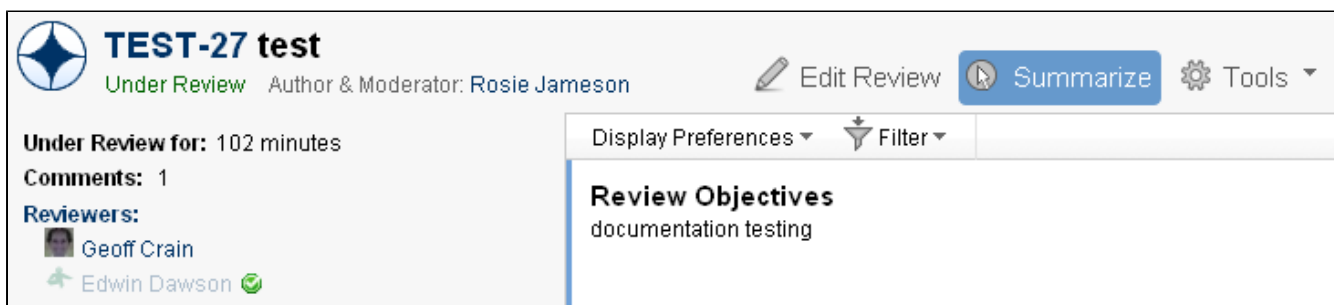
Normally, we recommend that you wait for all reviewers to [complete their reviews](#), before summarizing or closing the review.

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).

Managing your reviews

See:

- [Using Review Reminders](#)
- [Moving a review to another project](#)
- [Using Progress Tracking](#)
- [Using Time Tracking](#)
- [Viewing people's statistics in Crucible](#)
- [Viewing Project Statistics](#)
- [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), you can have Crucible send a preset reminder to all of the pending reviewers, some number of working days before the deadline.

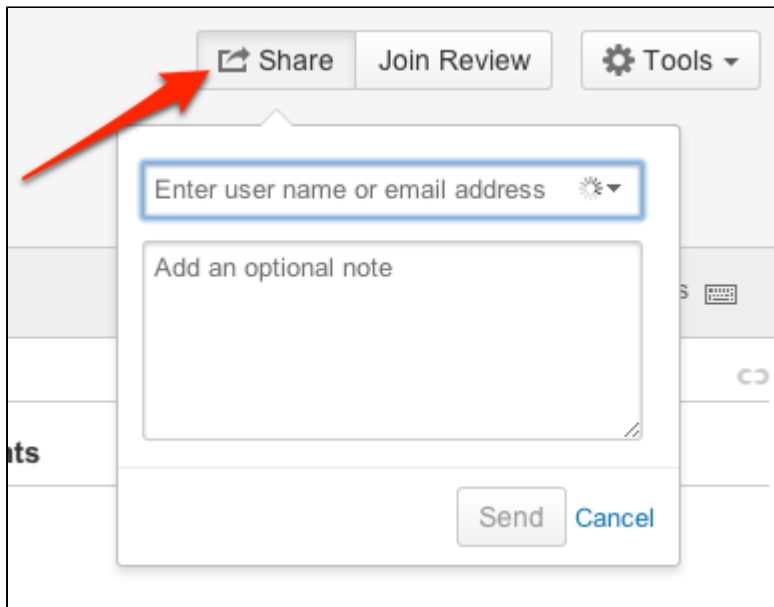
To add a reminder, firstly edit the review, then click **Add a reminder**. You can edit the reminder period.

i The **Send Reminder** setting is only available if the review has a due date set.

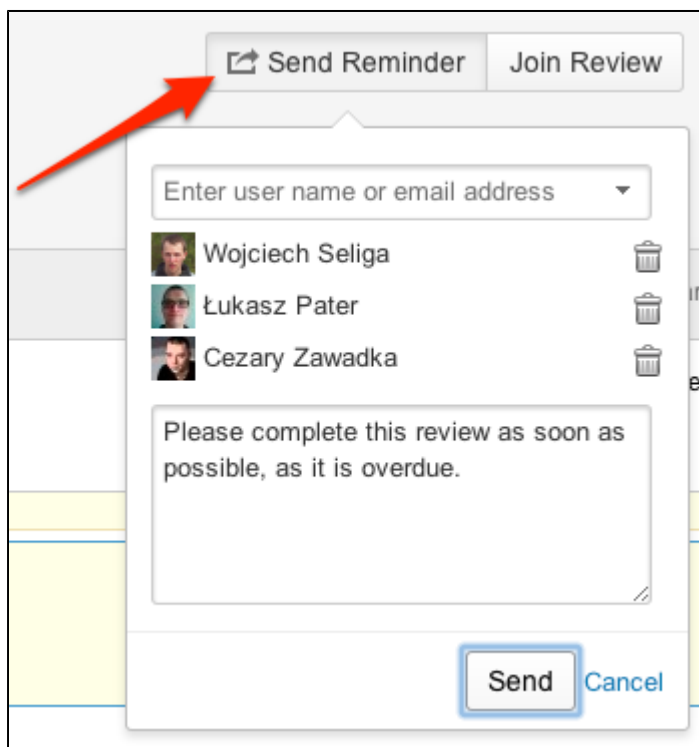
Manual Reminders

You can send a reminder to all the reviewers that have not yet completed their review:

Before the review is due, click **Share** and add recipients and a message. Besides sending reminders to participants, the **Share** option can also be used to share the review with people external to it:



If the review is overdue, click **Send Reminder**. The message is pre-populated with recipients who have not yet completed their 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 and click **Edit Review** at the top of the screen.
2. The '**Edit Review**' window will open, allowing you to change various aspects of the review.
3. In the 'Edit review' screen, use the **Project** drop-down menu to select a new parent project for the review.
4. Click **Done** at the bottom of the screen.

Screenshot: Changing a Review's Parent Project

TEST-29 A test review
Under Review Author & Moderator: Rosie Jameson

Under Review for: 0 seconds Display Preferences Filter

Edit Review

Review Details

Title:
A test review

Project: Testing Project (circled in red)

Moderator: Rosie Jameson

Author: Rosie Jameson

Select Reviewers:
Start typing the reviewer's name then press enter to select.
☒ Geoff Crain
☐ Allow anyone to join

Get Reviewer Suggestions:
Suggest Reviewers

Due Date:

Linked JIRA Issue:
Issue key: Link

Linked Review
Review Key: Link

Statement of Objectives:
Test moving a review to another project.

Reset

Abandon Review Done

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.

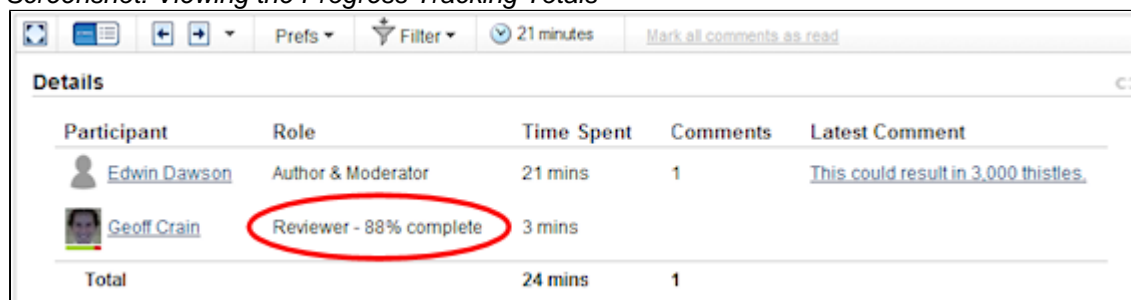
When participating in [iterative reviews](#), progress tracking also takes lines of code and revisions into account.

Viewing the progress tracking totals

The 'Details' section shows a summary of the progress of each participant through the files in the review.

i 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

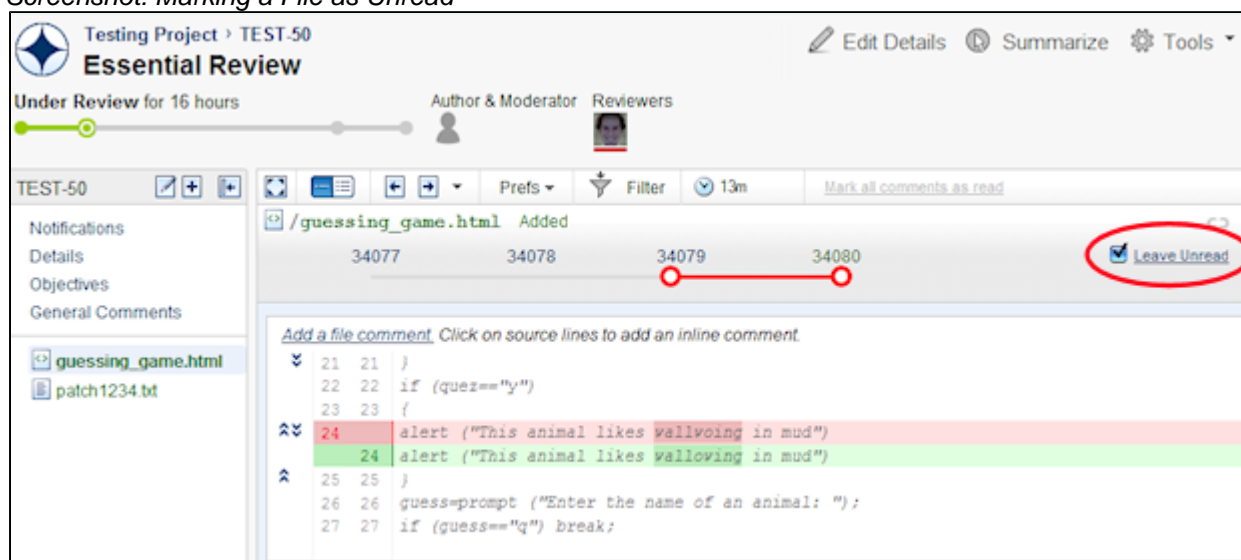


Participant	Role	Time Spent	Comments	Latest Comment
Edwin Dawson	Author & Moderator	21 mins	1	This could result in 3,000 thistles.
Geoff Crain	Reviewer - 88% complete	3 mins		
Total		24 mins	1	

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, and then clicking **Leave Unread** (at the right of the file's toolbar). This file is now not included in your progress percentage.

Screenshot: Marking a File as Unread



Testing Project > TEST-50
Essential Review
 Under Review for 16 hours
 Author & Moderator: Reviewers:

TEST-50
 Notifications
 Details
 Objectives
 General Comments

`/guessing_game.html` Added
 34077 34078 34079 34080
☒ **Leave Unread**

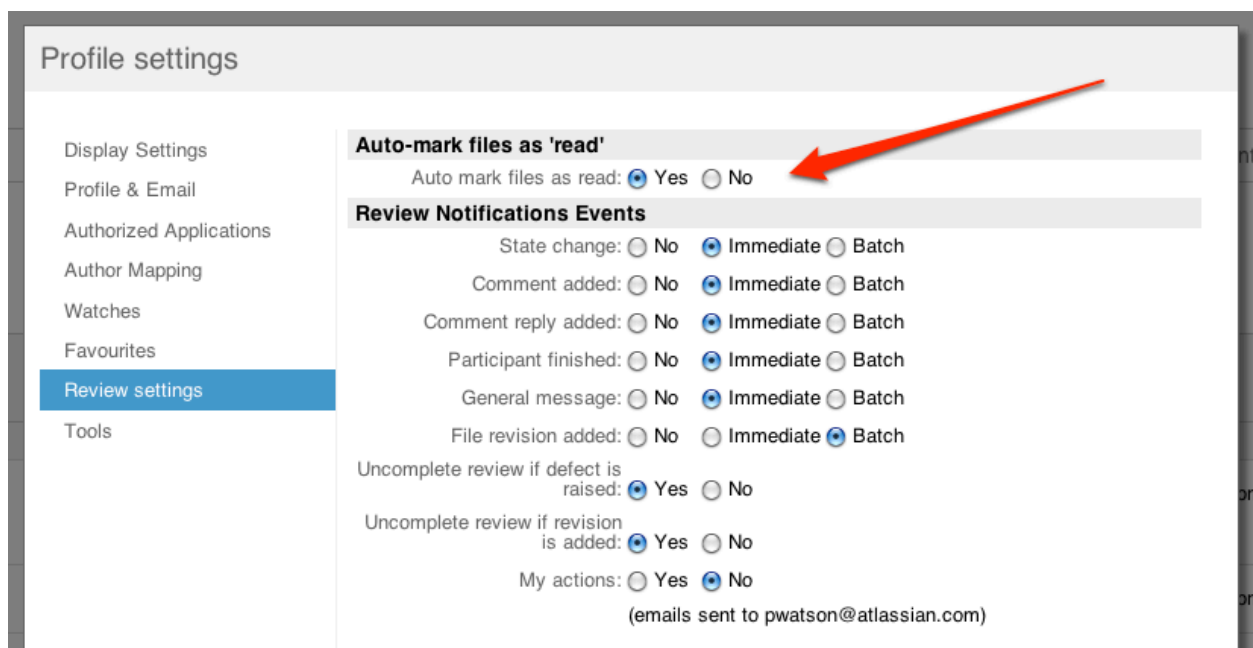
Add a file comment. Click on source lines to add an inline comment.

```

21 21 }
22 22 if (quiz=="y")
23 23 {
24 24 alert ("This animal likes wallvoing in mud")
24 24 alert ("This animal likes wallowing in mud")
25 25 }
26 26 guess=prompt ("Enter the name of an animal: ");
27 27 if (guess=="q") break;
  
```

Adjusting settings for progress tracking

Progress tracking is a configurable user preference – choose **Profile settings** from your user menu. On the **Review settings** tab, **Auto-mark files as read** is on by default – when set to off, you have to mark files as read or unread yourself.



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.

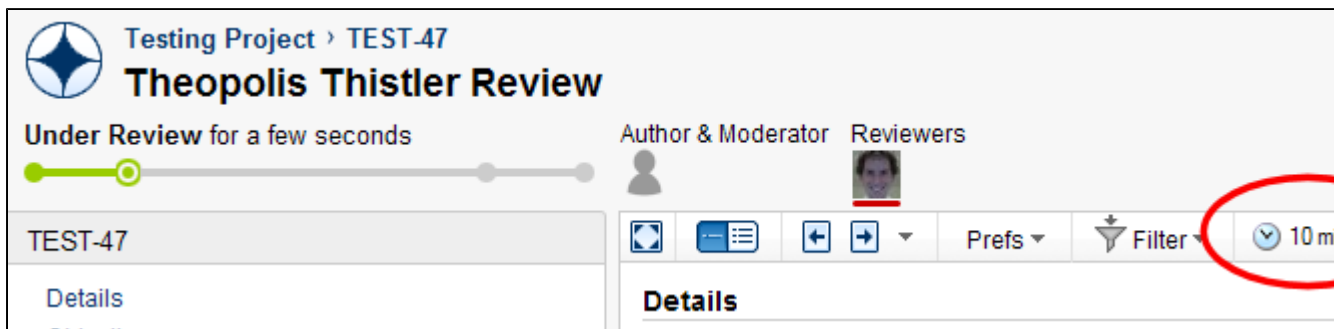
On this page:

- [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' section shows a summary of the progress and time tracked on each file.

Screenshot: Crucible Tracking Totals

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

0m [Mark all comments as read](#)

Submit time to JIRA

Time Spent

Comment

Further reading

You may also want to learn about Crucible's [Progress Tracking](#) feature.

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:

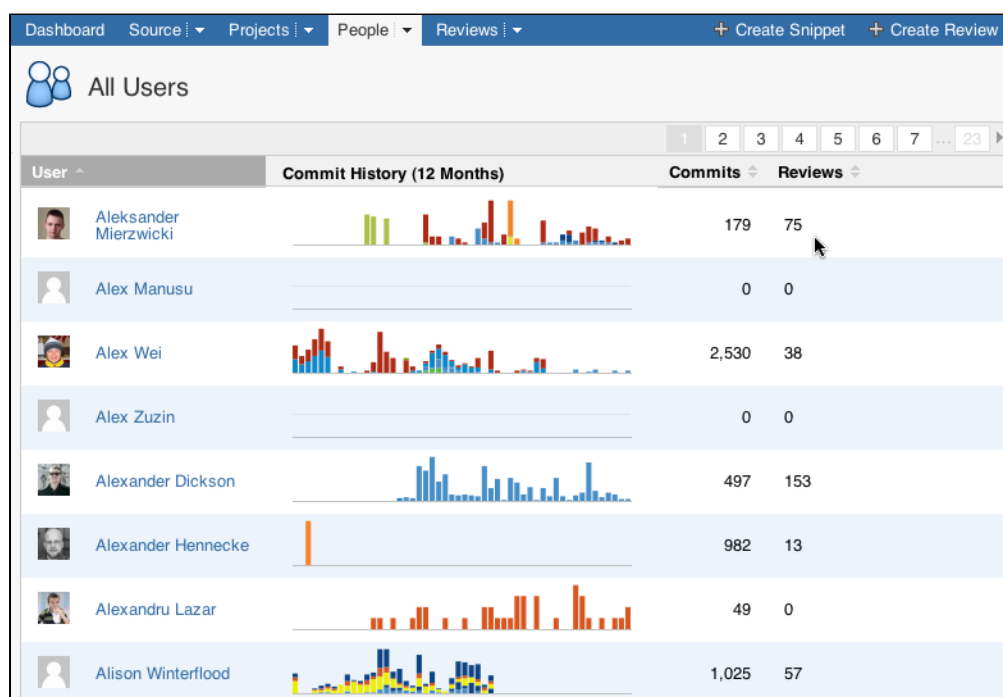
- [Opening the list of People](#)
- [Viewing a Person's Activity Screen](#)
- [Viewing charts of a person's activity](#)

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.

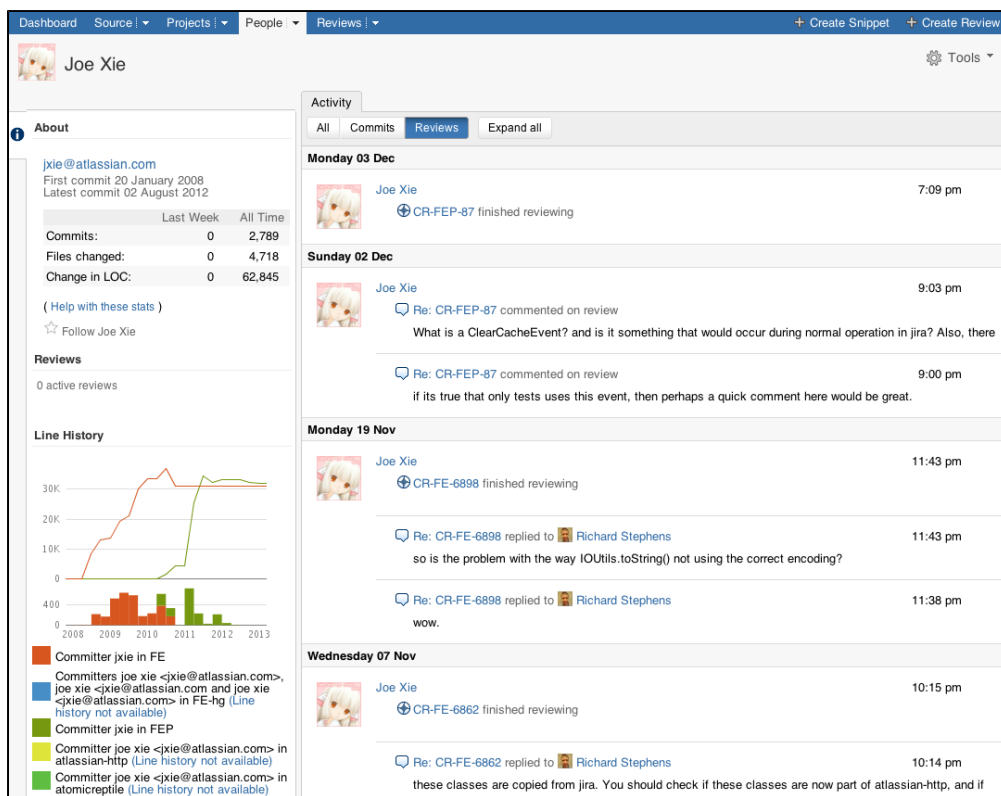
The right hand pane displays a list of all activity for this user. You can:

- 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



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)

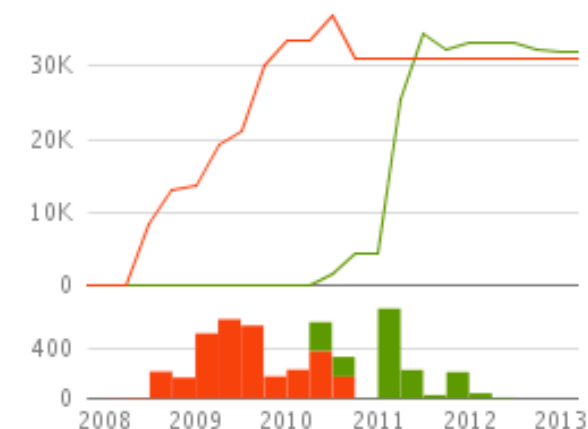
Out For Review (0)

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)

• 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.

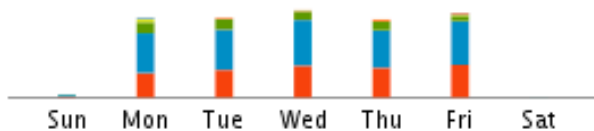
- history not available)
- Committer jxie in FEP
 - Committer joe xie <jxie@atlassian.com> in atlassian-http (Line history not available)
 - Committer joe xie <jxie@atlassian.com> in atomicreptile (Line history not available)
 - Committer joe xie <jxie@atlassian.com> in commithooks (Line history not available)
 - Committer joe xie <jxie@atlassian.com> in remote-issue-crea... (Line history not available)

Commit Activity

52 week commits volume



Commits by day



Commits by hour



Commit calendar



Committer Mappings

Username **jxie** is mapped to:

- jxie in FE
- joe xie <jxie@atlassian.com> in FE-hg
- joe xie <jxie@atlassian.com> in FE-hg
- joe xie <jxie@atlassian.com> in FE-hg
- joe xie <jxie@atlassian.com> in atomicreptile

- [jxie](#) in FEP
- [joe xie <jxie@atlassian.com>](#) in atlassian-http

Viewing Project Statistics

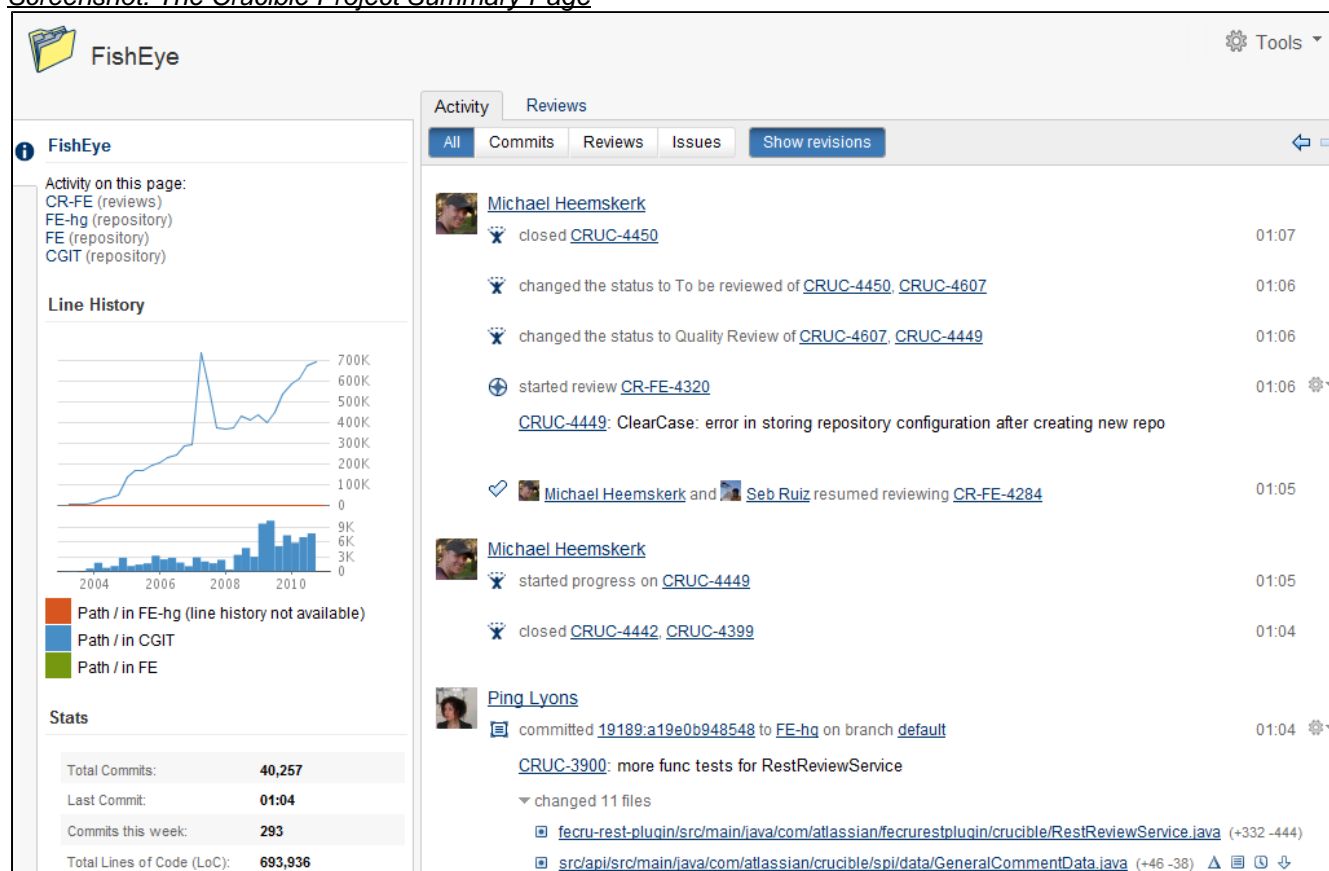
This page explains the layout of the Project Summary page.

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.

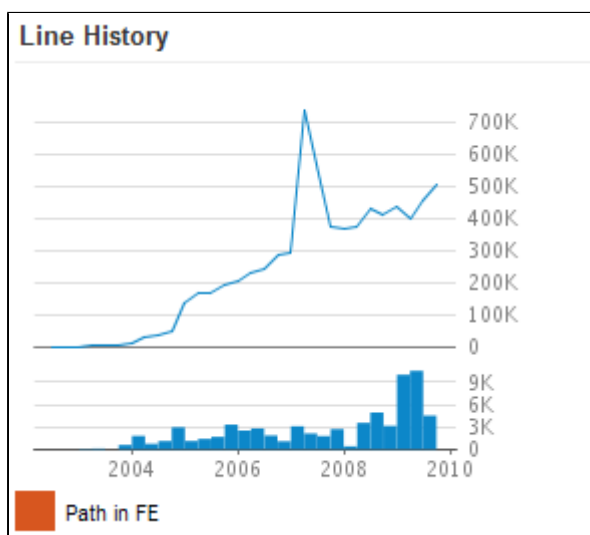
Project Name Panel

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>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>

Deleting a review

To delete a review you must first abandon the review. To do that, follow the instructions below.

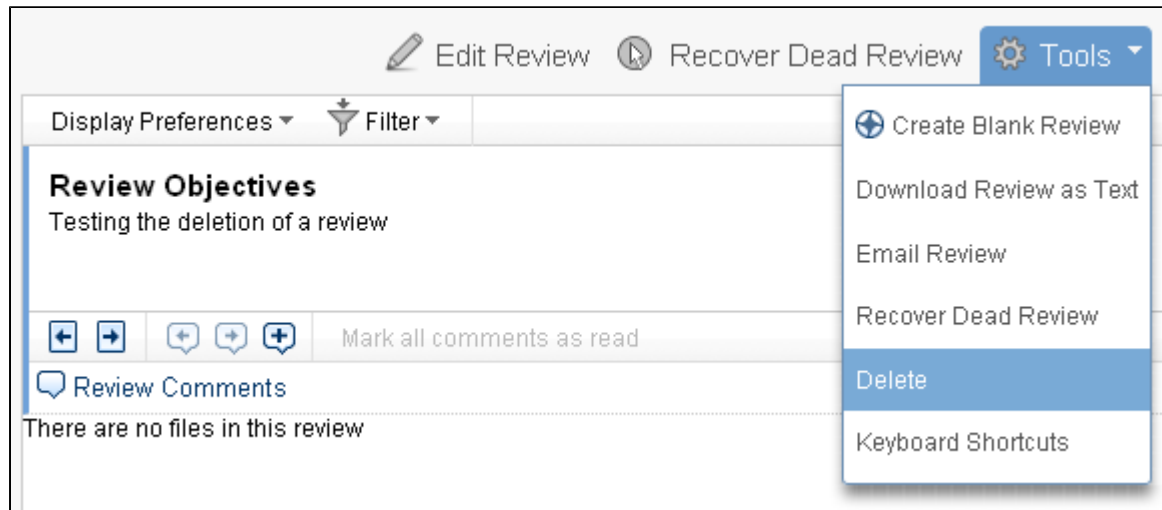
Deleted reviews cannot be retrieved.

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

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.

See also [Searching FishEye](#).

On this page:

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

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:

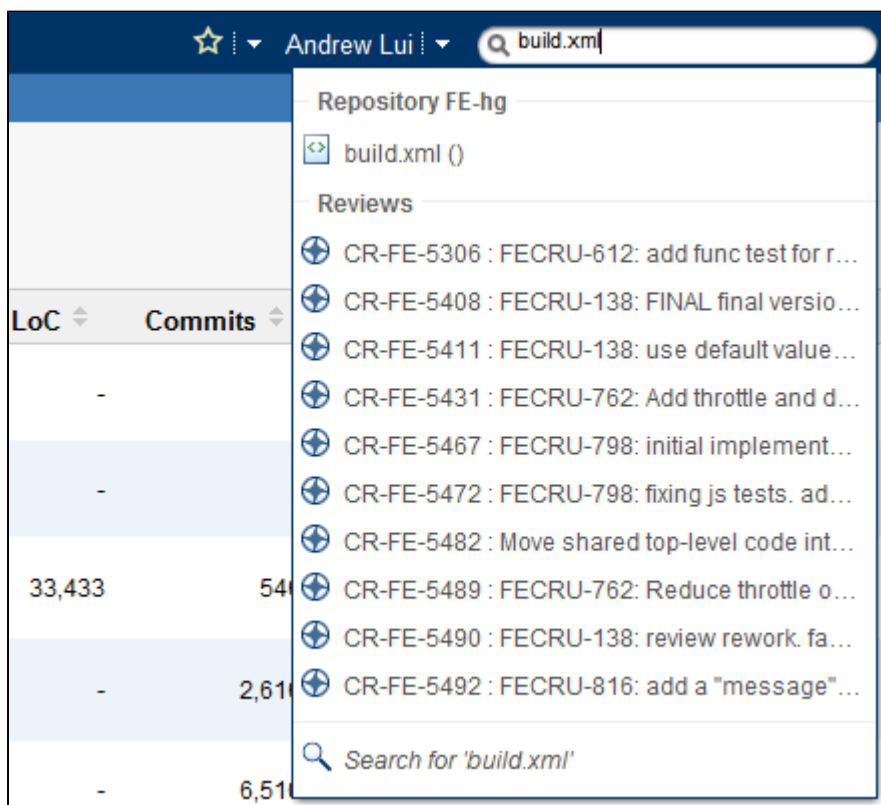
1. Enter your search terms in the search box in the Crucible header. Crucible offers a number of criteria that you can use to refine your results, see [Refining your Quick Search Criteria](#) below.
2. Results will appear in a dropdown, as you type. Results will attempt to be matched against the review

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"> • detail — Search against title, objective, key, linked reviews and linked issues. • reviewcomment — Search against review comments. 	

Searching for Discrete Strings	Enter a specific string within quotation marks and Crucible will match against the exact string. Note, this search is not case-sensitive.	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.
---------------------------------------	---	---

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	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.  <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>
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.
Last modified	Filter by the date of the last change.
By	Filter by author name.

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

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 moderators .
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.
Type	Choose either Review or Snippet .
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. Click **Reviews** in the header.
2. Enter your search string 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 contain the specified text.
Review Permalid	Find comments made on the specified review.
After	Find comments made after a particular date.
Before	Find comments made before a particular date.
Comment Author	Find comments made by a particular user.
Search Type	Filter for comments marked as Defects . Check Comments to find comments that are not flagged as Defects .
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').
Ranking	Find defects have been given a particular ranking (e.g. 'Major', 'Minor').

Screenshot: Search Comment Filter Options

Search Criteria

Search Criteria

Project:

Comment content:

Review Permalid:

After:

Before:

Comment Author

Search Type:

☐ Defects ☐ Comments

Review State:

☐ Draft ☐ Pending Approval ☐ Under Review

☐ Summarize ☐ Closed ☐ Abandoned

☐ Rejected ☐ Needs Fixing

Metrics:

Ranking:

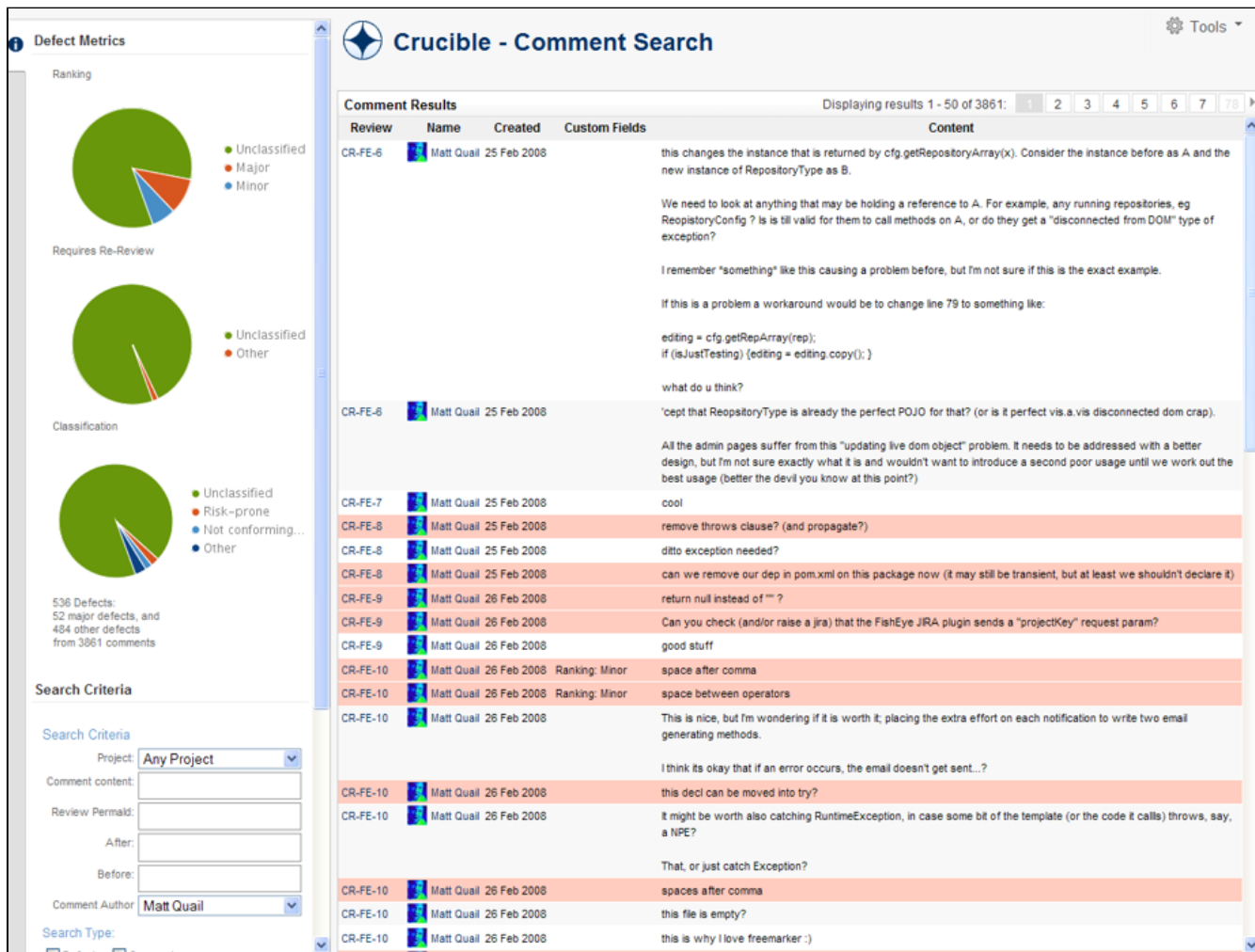
Requires Re-Review:

Classification:

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: Comment Search Results



JIRA integration in Crucible

JIRA is Atlassian's issue tracking and project management application.

When Crucible is integrated with JIRA, you and your team get all the benefits described on this page:

In Crucible, you can:

- See all the Crucible reviews related to a JIRA issue
- Create a Crucible review directly from an issue in JIRA
- Link your Crucible review to a JIRA issue
- Create a JIRA issue from a review comment
- Transition JIRA issues automatically
- Transition JIRA issues from within Crucible
- See issues from multiple instances of JIRA
- See open reviews or unreviewed commits for an entire version within JIRA

Related pages:

- [Creating a review from JIRA](#)
- [Creating JIRA issues from the review](#)
- [Transitioning JIRA issues](#)
- [Linking Crucible to JIRA](#)

Note that your Crucible and JIRA instances must be linked to make use of these JIRA integration features. See [Linking Crucible to JIRA](#).

 The Crucible project requires a linked JIRA project before issues can be linked to reviews.

Check development progress of a version in JIRA

CRUCIBLE 3.3+

JIRA 6.4+

The Release Hub in JIRA shows the relevant issues and development information for a version – so you can determine which issues are likely to ship at a glance. With JIRA and Stash connected, the release page can warn you about open reviews or unreviewed commits that could cause problems for your release.

Version 2.0 UNRELEASED

Start: 03/Nov/14
Release: 15/Feb/15
[Release Notes](#)

48 Warnings

273 Issues in version

262 Issues done













7 Issues in progress

4 Issues to do

Warnings indicate when the status of a JIRA issue doesn't reflect related development activity. For example: an issue marked complete that has an open pull request should be marked as still being in progress.

Unreviewed Code
These issues have been marked complete but the commits are not part of a pull request or review.

1–4 of 4

P	T	Key	Summary	Assignee
		SSP-1663	UI is not loading in IE8	 Andrew Swar
		SSP-1979	Incorrect permissions for new report	 Andrew Swar
		SSP-1555	As a developer, I want to view the build status for an issue	 Bruce Temple
		SSP-1660	Missing error message when Bamboo is unavailable	 Eduardo Soai

1–4 of 4

From the Release Hub you can also:

- Release a version
- Mark a version as complete
- Move incomplete issues to other versions
- Trigger release builds (if JIRA is connected to Bamboo)
- Warnings that help you reconcile what is happening in development with JIRA data.

To view the Release Hub (with the project sidebar enabled), navigate to a project, click on **Releases**, then select a version listed. See [Checking the progress of a version](#) for more detailed information about using the Release Hub in JIRA.

See all the Crucible reviews related to a JIRA issue

In a JIRA issue, the Development panel shows the number of reviews that are linked to the issue. Click the **reviews** link to see details of those reviews.

Link your Crucible review 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.

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 Reviews: [Link](#)

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

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

Create a JIRA issue from a review comment

When viewing any review comment (general, file, inline), you can click **Create Issue** in the 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.

See [Creating JIRA issues from the review](#) for more details.

Create issue

JIRA Project*

JIRA Issue Type*

Summary*

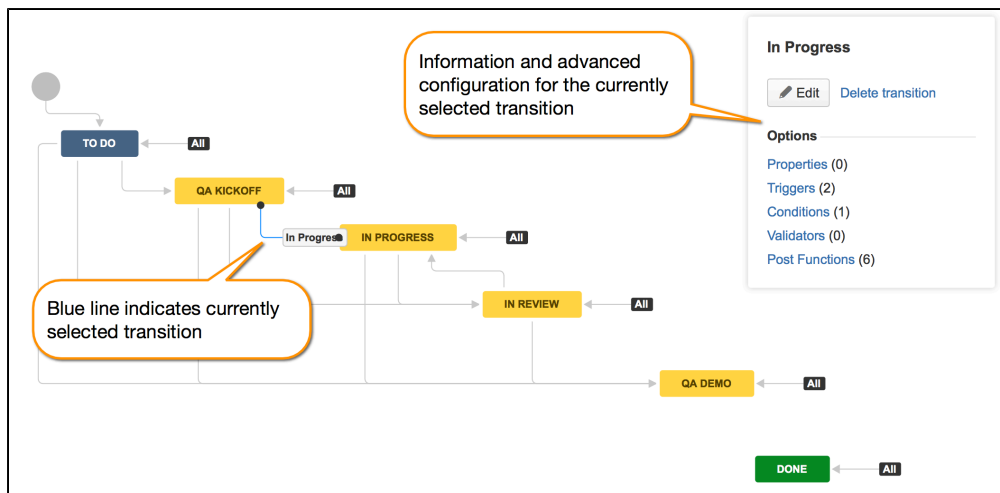
Description

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](#)

Transition JIRA issues automatically

Your JIRA workflow can now respond to events in your linked development tools, for when a review is started, your JIRA workflow can be configured to automatically transition the related issue. Configure this from transitions within the JIRA workflow editor. (Available with JIRA 6.3.3 and later.)

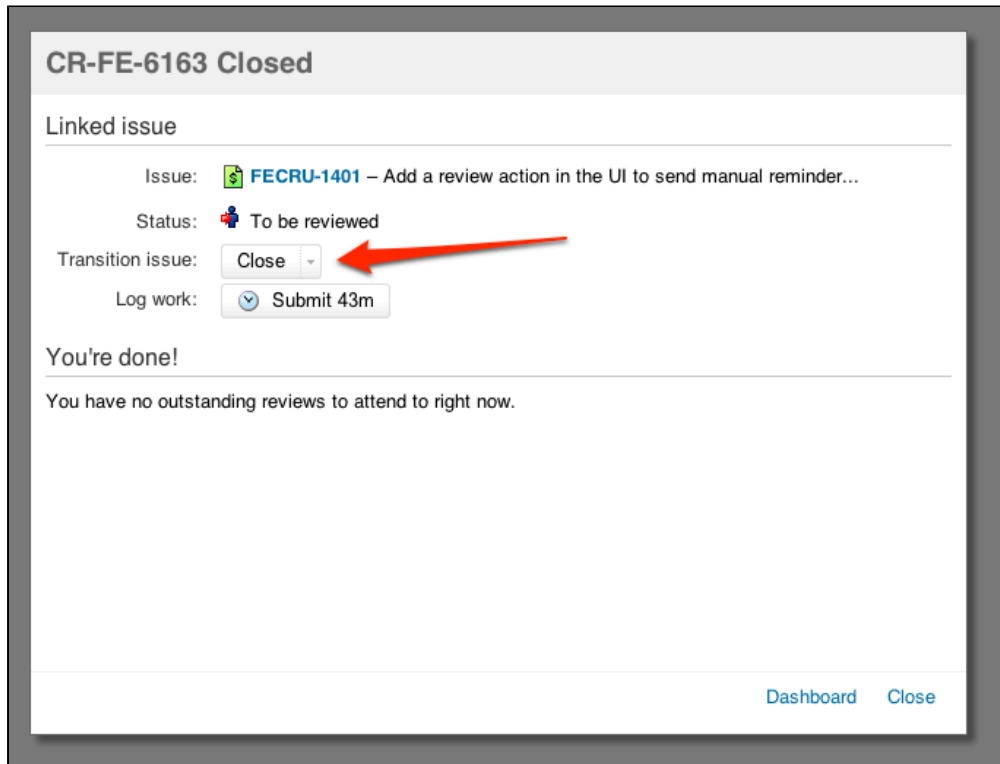


The events available in Crucible are:

- Review started
- Submitted for approval
- Review rejected
- Review abandoned
- Review closed
- Review summarized

Transition JIRA issues from within Crucible manually

For Crucible reviews that have [linked JIRA issues](#), you can advance the JIRA workflow for the issue from within Crucible. You can do this at any time by clicking the linked issue, or when you close the review:



See [Transitioning JIRA issues](#) for more details.

See issues from multiple instances of JIRA

Crucible can [link to more than one JIRA server](#) at a time, so different teams can work with their own projects in different JIRA instances, or a single team can link to issues across multiple JIRA servers.

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:

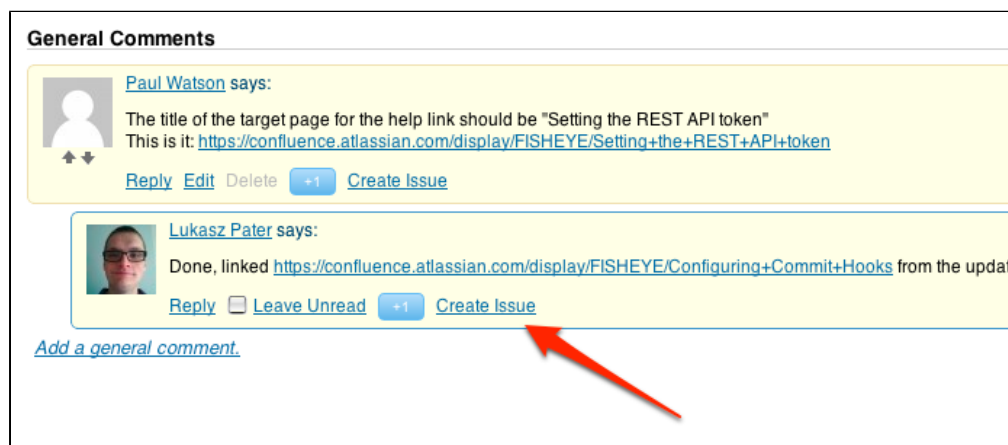
- Tracking of the status of the comment
- A faster way to pull out incidental suggestions raised in reviews as JIRA issues
- A quick link back to the comment from the JIRA issue, using Remote Issue Links.

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.



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.

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 [Creating a review from JIRA](#).

Transitioning JIRA issues

When Crucible is [linked to JIRA](#), you can advance the workflow for a JIRA issue directly from within Crucible.

You can transition a JIRA issue in two ways:

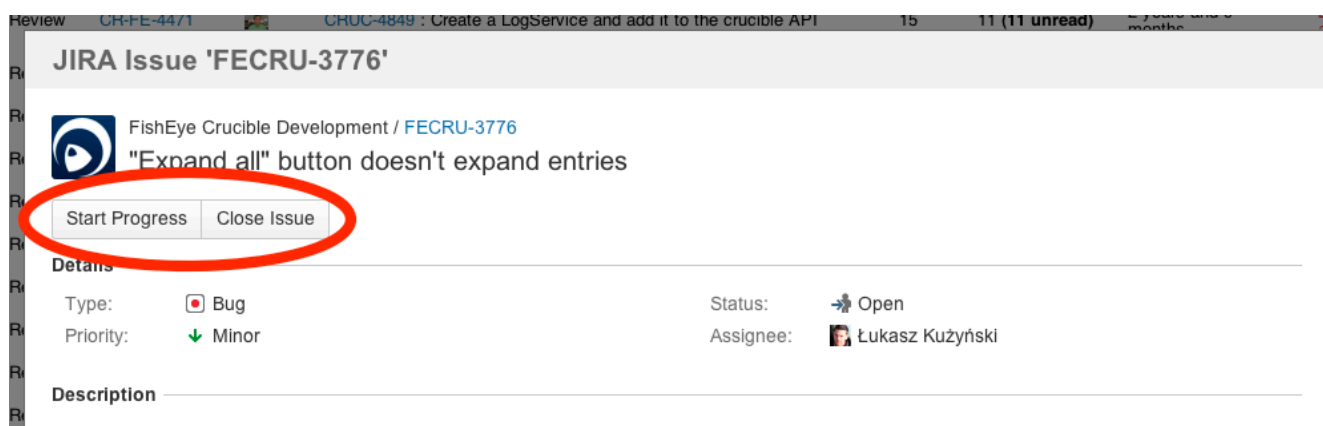
- [Transitioning any JIRA issue at any time](#)
- [Transitioning a linked JIRA issue when closing the review](#)

Related pages:

- [JIRA integration in Crucible](#)
- [Creating JIRA issues from the review](#)
- [Linking Crucible to JIRA](#)

Transitioning any JIRA issue at any time

You can easily [transition](#) a JIRA issue at any time from within Crucible. Click on a JIRA issue link anywhere in Crucible to see a dialog with the available workflow steps:

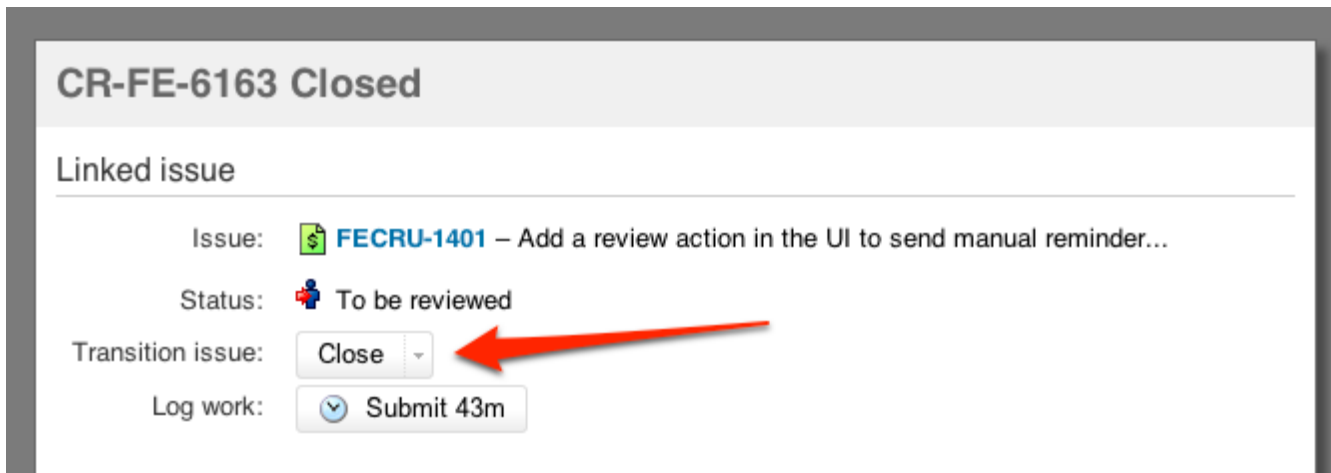


Click on a step in the dialog, and complete any displayed fields as required. If there are custom required fields that are unsupported by Crucible, just click **Edit this field in JIRA** to transition the issue directly in JIRA.

Transitioning a linked JIRA issue when closing the review

When closing a Crucible review you may also want to close a JIRA issue that is [linked to that review](#).

In the Review Summary screen, click **Close** near the top right. In the 'Closed' dialog, the available workflow transitions for the linked JIRA issue appear in the **Transition issue** dropdown:



Choose a step from the dropdown, and click **Close**.

Notes

- 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.
- Crucible administrators can turn off JIRA issue transitioning by disabling the Crucible Issue Transitioning Plugin. See [Managing add-ons](#).

i This feature does not support editing fields on the issue, only setting the *resolution* field if required by the transition.

Crucible FAQ

Crucible FAQ

Answers to frequently asked questions about configuring and using Crucible.

- [Crucible Resources](#)
- [General FAQs](#)
 - [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](#)
 - [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](#)
 - [Updating your Crucible license](#)
- [Support Policies](#)
 - [Bug Fixing Policy](#)
 - [New Features Policy](#)
 - [Security Bugfix Policy](#)
- [Troubleshooting](#)
 - [JIRA Integration Issues](#)
 - [Problems with very long comments and MySQL migration](#)
- [Contributing to the Crucible documentation](#)
- [Glossary](#)
 - [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](#)
- [Collecting analytics in Crucible](#)

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](#)
- [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

- [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 you to store arbitrary name/value pairs, called 'SVN properties', in association with files and directories. You can use these properties to store metadata, and Subversion also uses them, for example to store where code is branched from.

These name/value pairs can only be changed as part of a changeset or 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 was on by default.

For Crucible 3.0 and later, this functionality is disabled by default, and affects the following actions:

- 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 that you can explicit add a particular file revision to a review, regardless of whether it is a textual change or metadata-only change.

The prime motivation behind 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, for example 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.

Enabling this functionality can be done by starting up Crucible with the following system property:

```
-Dcrucible.detect.metadata.revision.changes=true
```

Crucible 3.0+ Changes

In Crucible 3.0 and later the default value of this setting was changed from true to false. Due to the phased nature of FishEye indexing, changesets are available for review much earlier in their overall processing. In particular changesets are available for review prior to having their line count and diff information processed. In this state all changes look somewhat like metadata only changes. Reviews created in this state with metadata detection enabled will cause the changes to be excluded from the review.

How to Automate Daily Crucible Backups

Configuring Crucible backups is easy. To set daily Crucible backups, open the administration page, click **Backup** (under 'System' on the left), 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](#)
- [Updating your Crucible license](#)


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](#)

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 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.*
- **You need to reindex your repositories after removing a FishEye license**
When you remove a FishEye license, and operate with only a Crucible license, you need to reindex those repositories that were originally indexed under a FishEye license. You do not need to remove those repositories, you just need to run a re-index to create an index which is compatible with your new license setup.

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](#).

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 [FishEye 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.

Updating your Crucible license

When you upgrade or renew your Crucible license, you will receive a new license key – you'll need to update your Crucible server with the new license.

Note that you can access your current license, or obtain a new license, by going to my.atlassian.com.

Related pages:

- [Crucible and FishEye](#)
- [What happens if I decide to stop using FishEye with Crucible](#)

To update your Crucible license key:

1. Log in to Crucible [Admin area](#).
2. Click **System Info** (under 'System Settings').
3. Click **Edit License** and paste your new license key into the appropriate text box.
4. Paste your new license into this box. Obtain a new license by clicking my.atlassian.com in the 'Information' section.
5. Click **Update**.

Support

Information

New licenses can be acquired from my.atlassian.com.

Your Server ID is **BMRI-3AS3-HMMD-PGXX**

Licenses

FishEye License	Evaluation
Crucible License	AAAA9g0ODAOpeNptkE9rwzAMxe/+FIadPWa7hzXgQ5eELRAnpcmgH15Uo62G1A3+E9Zvv3Yt dBS9C IT03k8PPfS7RJvDRAWnfJ7NeMZnNO96Kp64JAUG4+0Y7cGp3CdjtwNuMlpOMCQ4T0nu8acpl Kl6e xjnTAhirurH2hp0AfvjiA3siOnAGy6/R+uMvqPgDbdJ+i779eA/og 2KctP4TnA0X2CioEIIIfdzOAiXbCy5kO/YS+KtSLXIVMLjrJ3rQu2PJ1vSZd2ahTsVqKZzGXklzz n +R1Vdzb3I+6TN7sIOD/v3wDPH51STAtAhRYkbBDq2j1NpXxLp5ws8aCIhAgBwlVAJceVTPzGB f4w g5FWvNY7c5adD+EX02co

Update
Cancel

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](#)
- [New Features Policy](#)
- [Security Bugfix Policy](#)

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 the appropriate project on <http://jira.atlassian.com> to report bugs for Atlassian products.

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.

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 this process.
- Atlassian provides consistent updates on the top 20 issues.

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.
- Please read our [post on Atlassian Answers](#) for a more detailed explanation.

How to Contribute to Feature Development

Influencing Atlassian's release cycle

We encourage our customers to vote on issues that have been raised in our public JIRA instance, <http://jira.atlassian.com>. Please find out if your request already exists - if it does, vote for it. If you do not find it you may wish to create a new one.

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.

Security Bugfix Policy

See [Security @ Atlassian](#) for more information on our security bugfix policy.

Troubleshooting

Crucible Troubleshooting

- [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](#).

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:

- [Updating the documentation](#)
 - [Getting permission to update the documentation](#)
 - [Our style guide](#)
 - [How we manage community updates](#)
- [Contributing documentation in other languages](#)

Updating the documentation

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.

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.

RELATED TOPICS

[Author Guidelines](#)

[Atlassian Contributor License Agreement](#)

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 Mode rator
Approve	Ability to approve a review (i.e. issue it to the reviewers).	Creator Author Mode rator

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 Mode rator
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 Mode rator
Submit	Ability to submit a review for approval (i.e. request that the review be issued to the reviewers).	Creator Author Mode rator
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.

Collecting analytics in Crucible

We are continuously working to make Crucible better. Data about how you use Crucible helps us do that. We have updated our Privacy Policy so that we may collect usage data automatically, unless you disable collection. The data we collect includes information about the systems on which your installation of Crucible is

operating, the features you use in Crucible, and your use of common IT terminology within the product. For more details, see our [Privacy Policy](#), in particular the 'Analytics Information from Downloadable Products' section.

See also our [End User Agreement](#).

How to change data collection settings?

You can opt in to, or out of, data collection at any time. A Crucible admin can change the data collection settings by going to **Analytics** (under 'Global Settings') in the Crucible admin area.

How is data collected?

We use the Atlassian Analytics plugin to collect event data in Crucible. Analytics logs are stored locally and then periodically uploaded to a secure location.