User documentation for Crucible 3.1

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Getting Started

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

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

Related pages:

- Using Crucible
- Administering Crucible
- Crucible FAQ
- Crucible upgrade guide

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System requirements

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

Download and install Crucible

- Windows
- Mac
- Linux

Work with projects

Crucible integrates with Subversion, Git, Mercurial, CVS and Perforce. FInd out how to connect to repositories, set up projects and create reviews.

Integrate Crucible with other Atlassian applications

As a first step, see JIRA integration in Crucible.

Read more about using Crucible

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

Supported platforms

This page shows the supported platforms for **Crucible 3.1.x** and its minor releases.

Key: ✓ = Supported ✗ = Not Supported

Java Version		
Oracle JRE / JDK	✓ 1.6 ✓ 1.7	Crucible requires the **Java Runtime** (JDK or JRE), version as noted. Pre-release/Early access versions of the Java Runtime are *not supported*. You can download an Oracle Java Runtime for Windows/Linux/Solaris. On Mac OS X, the JDK is bundled with the operating system. For the OpenJDK, download and install instructions for Linux flavours are at http://openjdk.java.net/install/. We highly recommend that you use the Oracle JVM or OpenJDK (for Linux only), or use the default Mac OS X JVM. Other implementations have not been tested. Please note: • Once you have installed the JDK, you need to set the JAVA_HOME environment variable. See Installing Crucible on Windows or Installing Crucible on Linux and Mac for details. • If you are using a 64-bit JVM, please ensure that you've set your max heap size (`--Xmx`) to a reasonable value, considering the RAM requirements of your system.
OpenJDK	✓ 1.7 (Linux only)	

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Operating Systems		
Microsoft Windows	✅	• Crucible is a pure Java application and should run on any platform provided the requirements for the JRE or JDK are satisfied. • ⚠️ Although Crucible can be run in virtualised environments, Atlassian is not yet able to provide technical support for performance-related problems in a virtualised environment. If you do chose to run Crucible in a VM, please ensure that you choose a VM with good IO throughput. • ⚠️ On OS X Java 7 performs significantly better than Java 6
Linux	✅	
Apple Mac OS X	✅	
Databases		
MySQL	✅ MySQL Enterprise Server 5.x ✅ MySQL Community Server 5.x	Crucible supports a number of external databases, as listed. See the Crucible Database documentation for further details. ⚠️ For MySQL: • For 5.0, version must be 5.0.21 or later • For 5.1, version must be 5.1.10 or later • For 5.6, version must be 5.6.11 or later.
PostgreSQL	✅ 8.2, 8.3, 8.4	
Oracle	✅ 11g	
SQL Server	✅ 2005, 2008, 2008 R2	
HSQLDB [3]	✅ Bundled; for evaluation use only	The Crucible built-in database, running HSQLDB, is somewhat susceptible to data loss during system crashes. We recommend that you do not use HSQLDB for production systems. External databases are generally more resistant to data loss during a system crash and are more suited for production use.
Web Browsers		
Microsoft Internet Explorer	✅ 8.0, 9.0 ❌ 6.0 and 7.0 are not supported	
Mozilla Firefox	✅ Latest stable version supported ✅ 3.6, 4.0	
Safari	✅ Latest stable version supported ✅ 4, 5	
Chrome	✅ Latest stable version supported	
Version Control Systems		

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Subversion (SVN)	Server: ✓ 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7 Client: ✓ SVNKit (bundled & the default) ✓ Native JavaHL 1.7 ✗ Native JavaHL 1.6	✓ FishEye 3.1, and later, supports SVN 1.7.x with the native JavaHL 1.7 client. ✗ FishEye 3.1, and later, **do not** support SVN 1.7.x with the native JavaHL 1.6 client. See Native support for SVN 1.7 for discussion. Subversion 1.8 support is currently being assessed. FishEye does not yet work for file:// access to repositories created with Subversion 1.8.
CVS (and CVSNT)	✓ All versions	
Perforce (P4)	✓ Client version 2007.3 or later ✓ Server version 2005.1 or later	The Server must support the ztag tagged protocol.
Git	✓ 1.7.1.1 or later	
Mercurial (Hg)	✓ 1.5.1 or later	Mercurial 2.1 has a bug that makes it incompatible with Crucible. Please use Mercurial 2.1.1 or later.

Deployment Notes for Source Code Repositories

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

End of Support Announcements for Crucible

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

Platform	Announcement date	Crucible End of Support
JIRA versions earlier than 5.0	27 August 2013	As of Crucible 3.2
MySQL 5.0	4 October 2011	January 2012
PostgreSQL 8.0 and 8.1	4 October 2011	January 2012
IBM ClearCase (all versions)	4 April 2011	4 April 2012 (announcement)

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

Why is Atlassian ending support for these platforms?
Atlassian is committed to delivering improvements and bug fixes as fast as possible. We are also committed to providing world class support for all the platforms our customers run our software on. However, as new versions of databases, web browsers etc. are released, the cost of supporting multiple platforms grows exponentially, making it harder to provide the level of support our customers have come to expect from us. Therefore, we no longer support platform versions marked as end-of-life by the vendor, or very old versions that are no longer widely used.

On this page (most recent announcements first):

- Deprecated Crucible 3.2 support for older versions of JIRA (announced 27 August 2013)
- Deprecated database support for Crucible (announced 4 October 2011)
- Deprecated web browsers for Crucible (announced 21 March 2011)
- Deprecated Java platforms for Crucible (announced 21 March 2011)
- Deprecated SCM repository support for Crucible (announced 4 April 2011)

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Deprecated Crucible 3.2 support for older versions of JIRA (announced 27 August 2013)

Atlassian announces the deprecation of support for Crucible communication with older versions of Atlassian JIRA. We will stop supporting older versions of JIRA as follows:

- From Crucible 3.2, support for Crucible to JIRA communication for versions of JIRA earlier than 5.0, will end. Please note that communication from JIRA to Crucible will continue to work as it currently does. Crucible 3.2 is expected to be released late in 2013.

If you have questions or concerns regarding this announcement, please email `eol-announcement at atlassian dot com`.

Deprecated database support for Crucible (announced 4 October 2011)

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

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

- For the next major version of Crucible, in January 2012, support for MySQL 5.0, PostgreSQL 8.0 and 8.1 will end.

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

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

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

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

Deprecated web browsers for Crucible (announced 21 March 2011)

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

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

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

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

End of Life Announcement for Web Browser Support

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

Internet Explorer 7 Notes:

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

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Deprecated Java platforms for Crucible (announced 21 March 2011)

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

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

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

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

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

End of Life Announcement for Java Platform Support

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

Java Platform 5 End of Support Notes:

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

Deprecated SCM repository support for Crucible (announced 4 April 2011)

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

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

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

IBM ClearCase End of Support Notes:

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

End of Support Announcement for IBM ClearCase

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

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

You can stay on older versions of Crucible to support your existing installations with ClearCase. However, Atlassian will not be providing any ClearCase-related support for any Crucible version after 4 April 2012, and **ha**

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s removed all functionality related to ClearCase from Crucible versions released after April 4th 2012. We are committed to helping our customers understand this decision and to assist you in migrating to a different SCM, if needed.

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

Installing Crucible on Windows

Hey! We're going to perform a clean install of Crucible on Windows. There are a few steps involved, but we think you'll find it easy to follow along.

If you already have FishEye installed, you should read Upgrading from FishEye to Crucible instead.

1. Check supported platforms

Better check the Supported platforms page first; it lists the application servers, databases, operating systems, web browsers and JDKs that we have tested Crucible with, and that we recommend.

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

Related pages:

- Running Crucible as a Windows service
- Upgrading from FishEye to Crucible
- Installing Crucible on Linux and Mac
- Starting to use Crucible
- Supported platforms

2. Check your version of Java

In a command prompt, run this:

```
java -version
```

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

If you don't see Java 1.6.0 or higher, then get Java...

Download and install the Java Platform JDK from Oracle's website.

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

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

3. Check that Windows can find Java

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

```
echo %JAVA_HOME%
```

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

If you don't see a path without spaces...

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

For Windows 7:

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

4. Create a dedicated Crucible user (recommended)

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

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

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

5. Now it's time to get Crucible

Download Crucible from the Atlassian download site.

Extract the downloaded file to an install location:

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

6. Tell Crucible where to store your data

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

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

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

For Windows 7:

1. Go to **Start**, search for "sys env" and choose **Edit the system environment variables**.
2. Click **Environment Variables**, and then **New** under 'System variables'.
3. Enter "FISHEYE_INST" as the **Variable name**, and the absolute path to your new Crucible instance directory as the **Variable value**. Don't use a trailing backslash.
4. Now copy the newly extracted `<Crucible home directory>\config.xml` file to the root of your new Crucible instance directory.

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

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nning Crucible as a Windows service .

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

7. Start Crucible!

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

```
bin\start.bat
```

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

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

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

8. Connect to an external database (recommended)

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

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

9. Set up your mail server

Configure the Crucible email server so that users can get notifications from Crucible. See Configuring SMTP.

10. Add users and repositories

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

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

11. Stop Crucible (optional)

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

```
bin\stop.bat
```

Running Crucible as a Windows service

Crucible can be run as a service under Microsoft Windows using a Java Service Wrapper.

The service wrapper provides the following benefits:

- Allows Crucible, which is a Java application, to be run as a Windows Service.
- No need for a user to be logged on to the system at all times, or for a command prompt to be open and running on the desktop to be able to run Crucible.
- The ability to run Crucible in the background as a service, for improved convenience, system performance and security.
- Crucible is launched automatically on system startup and does not require that a user be logged in.

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- Users are not able to stop, start, or otherwise tamper with Crucible unless they are an administrator.
- Provides advanced failover, error recovery, and analysis features to make sure that Crucible has the maximum possible uptime.

⚠ Please note that:

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

On this page:

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

Related pages:

- Installing Crucible on Windows

Installing the Java Service Wrapper

To install the Java Service Wrapper on Windows:

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

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

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

```
# Java Application

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

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

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

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

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

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

Please note that:

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

Setting Crucible environment variables for Windows Services

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

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

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

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

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

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

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

Your memory settings can also be found in this file:

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

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

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

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

Troubleshooting

Extracting files from wrapper.zip

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

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

Warning when using 64-bit Java JDK

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

> *WARNING - Unable to load the Wrapper's native library 'wrapper.dll'. The file is located on the path at the following location but could not be loaded: C:\installs\service\fisheye28\wrapper\lib\wrapper.dll.*
>
> *Please verify that the file is readable by the current user and that the file has not been corrupted in any way. System signals will not be handled correctly.*

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

Wrapper configuration and "-server" parameter

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

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

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

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

Installing Crucible on Linux and Mac

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

1. Check supported platforms

Better check the Supported platforms page first; it lists the application servers, databases, operating systems, web browsers and JDKs that we have tested Crucible with, and that we recommend.

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

Related pages:

- Installing Crucible on Windows
- Starting to use Crucible
- Supported platforms

2. Check your version of Java

In a terminal, run this:

```
java -version
```

The version of Java should be **1.6.0** or later (**1.7.0** or later 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 **1.6.0** or later (**1.7.0** or later for OpenJDK).

3. Check that the system can find Java

In a terminal, run this:

```
echo $JAVA_HOME
```

You should see a path something like:

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

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

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Linux	Mac

Do either of the following:
• If `JAVA_HOME` is not set, log in with 'root' level permissions and run:
`echo JAVA_HOME="path/to/JAVA_HOME" >> /etc/environment`
where `path/to/JAVA_HOME` may be like: `/usr/lib/jvm/default-java`
• If `JAVA_HOME` needs to be changed, open the `/etc/environment` file in a text editor and modify the value for `JAVA_HOME` to:
`JAVA_HOME="path/to/JAVA_HOME"`
It should look like:
`JAVA_HOME=/usr/lib/jvm/default-java`
	Insert the following in your `~/.profile` file:
	`JAVA_HOME="path/to/JAVA_HOME"`
	`export JAVA_HOME`
	where `path/to/JAVA_HOME` may be like: `/System/Library/Frameworks/JavaVM.framework/Versions/CurrentJDK/Home/`
	Refresh your ~/.profile in the terminal and confirm that `JAVA_HOME` is set:
	`source ~/.profile`
	`$JAVA_HOME/bin/java -version`
	You should see a version of Java that is **1.6.0** or higher, like this:
	`java version "1.6.0_24"`

4. Create a dedicated Crucible user (recommended)

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

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

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

5. Now it's time to get Crucible

Download Crucible from the Atlassian download site.

Extract the downloaded file to an install location:

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

6. Tell Crucible where to store your data

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

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

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Linux	Mac

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

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.

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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

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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
The setup wizard displays one of the following error messages: • 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>.	The setup wizard failed to complete registration of the peer-to-peer application link with JIRA. JIRA integration is only partially configured.	Remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup. Detailed instructions are below.

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The setup wizard displays one of the following error messages: • 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>	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.	Remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup. Detailed instructions are below.
The setup wizard displays the following error message: • Error setting Crowd authentication	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 `config.xml` file. This may be caused by a problem in your environment, such as a full disk.	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.
The setup wizard displays the following error message: • Error reloading Crowd authentication	The setup wizard has completed the integration of your application with JIRA, but is unable to start synchronizing the JIRA users with your application.	Restart your application. You should then be able to continue with the setup wizard. If this solution does not work, please contact Atlassian Support.
The setup wizard displays the following error message: • An error occurred: java.lang.IllegalStateException: Could not create the application in JIRA/Crowd (code: 500). Please refer to the logs for details.	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.	Remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup. Detailed instructions are below.
No users can log in after you have set up the application with JIRA integration.	Possible causes: • 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.	Go to JIRA and add some usernames to the group. • 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. If this solution does not work, please contact Atlassian Support.

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.

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

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

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

        For example:

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

        Or:

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

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

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

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

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

        - The application links manifest will appear. Check the application ID in the `<id>` element.
    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

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

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

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

        For example:

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

        Or:

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

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

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

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

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

        - The application links manifest will appear. Check the application ID in the `<id>` element.
    c. In JIRA, click '**Delete**' next to the application that you want to remove.
6. Add the application link in JIRA again, so that you now have a two-way trusted link between JIRA and your application:

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a. Click '**Add Application Link**'. Step 1 of the link wizard will appear.
b. Enter the **server URL** of the application that you want to link to (the 'remote application').
c. Click the '**Next**' button.
d. Enter the following information:
   - '**Create a link back to this server**' – Tick this check box to add a two-way link between the two applications.
   - '**Username**' and '**Password**' – Enter the credentials for a username that has administrator access to the remote application.
     Note: These credentials are only used to authenticate you to the remote application, so that Application Links can make the changes required for the new link. The credentials are not saved.
   - '**Reciprocal Link URL**' – The URL you give here will override the base URL specified in your remote application's administration console, for the purposes of the application links connection. Application Links will use this URL to access the remote application.
e. Click the '**Next**' button.
f. Enter the information required to configure authentication for your application link:
   - '**The servers have the same set of users**' – Tick this check box, because the users are the same in both applications.
   - '**These servers fully trust each other**' – Tick this check box, because you trust the code in both applications and are sure both applications will maintain the security of their private keys.
     For more information about configuring authentication, see Configuring Authentication for an Application Link_OLD.
g. Click the '**Create**' button to create the application link.

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

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

        - **Application name** and **Application password** – Enter the values that you defined for Confluence in the settings on JIRA.
     e. Save the directory settings.
     f. Define the **directory order** by clicking the blue up- and down-arrows next to each directory on the '**User Directories**' screen.
        For details see Connecting to Crowd or JIRA for User Management.
   - For FishEye/Crucible:
     a. Click **Authentication** (under 'Security Settings').
     b. Click **Setup JIRA/Crowd authentication**. Note, if LDAP authentication has already been set up, you will need to remove that before connecting to JIRA for user management.
     c. Make the following settings:

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

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.

Notes

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

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

Starting to use Crucible

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

- Add a repository
- Create a project
- Create and perform reviews

Assumptions

We're assuming that:

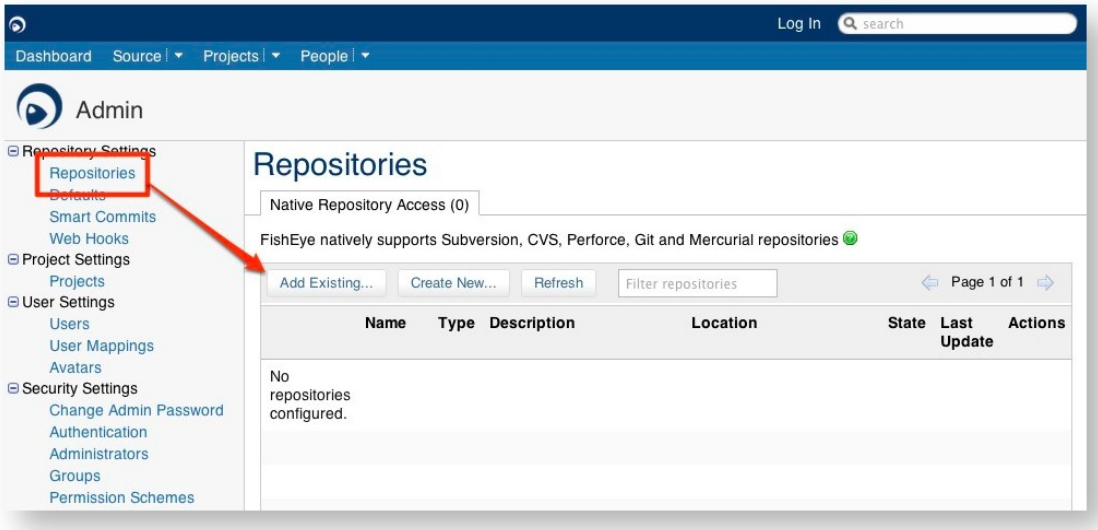
- You have installed and started the latest version of Crucible. See the details at Installing Crucible on Windows or Installing Crucible on Linux and Mac.
- You are using a supported browser.
- You have admin permission in Crucible.

Add a repository

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

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.

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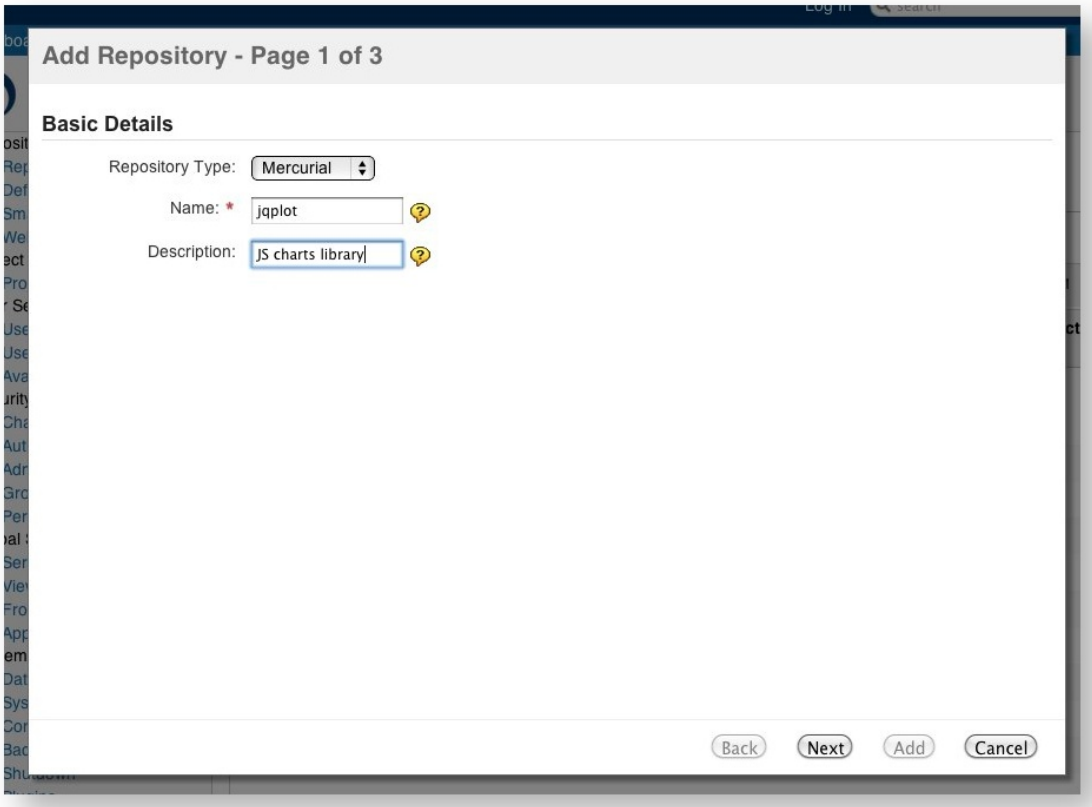
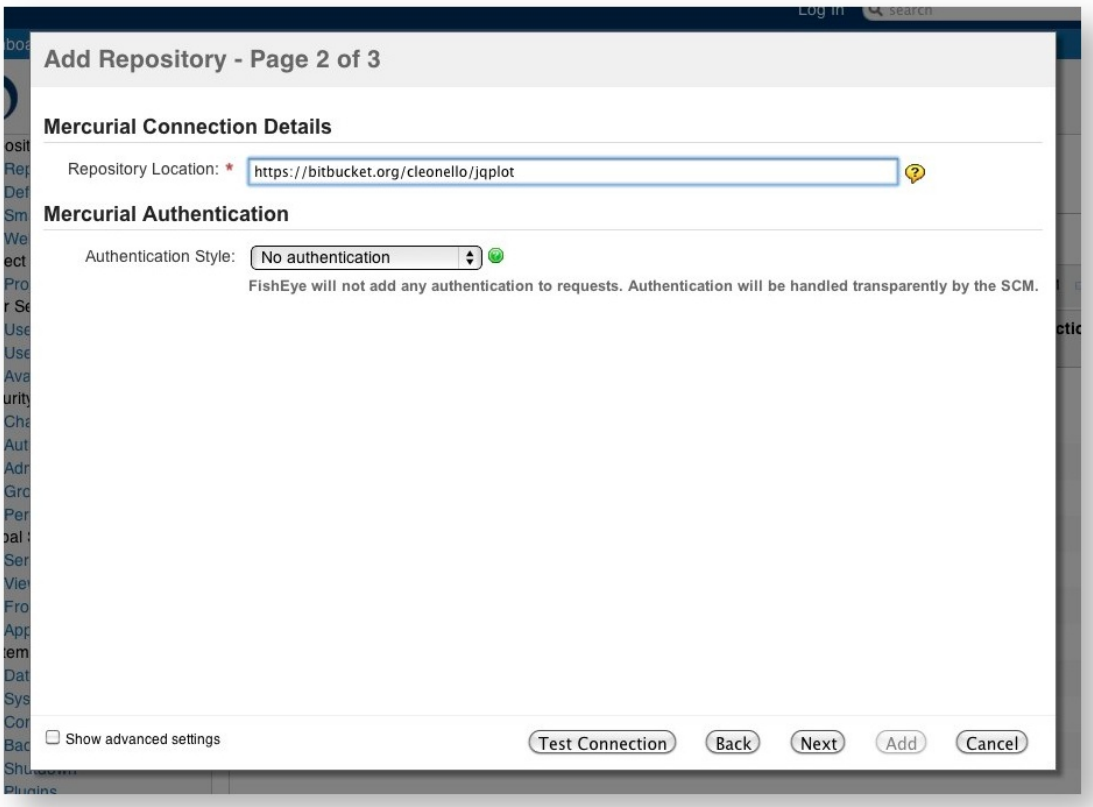


In the repository configuration put the location of your repository. Fill in the authentication details if necessary.



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

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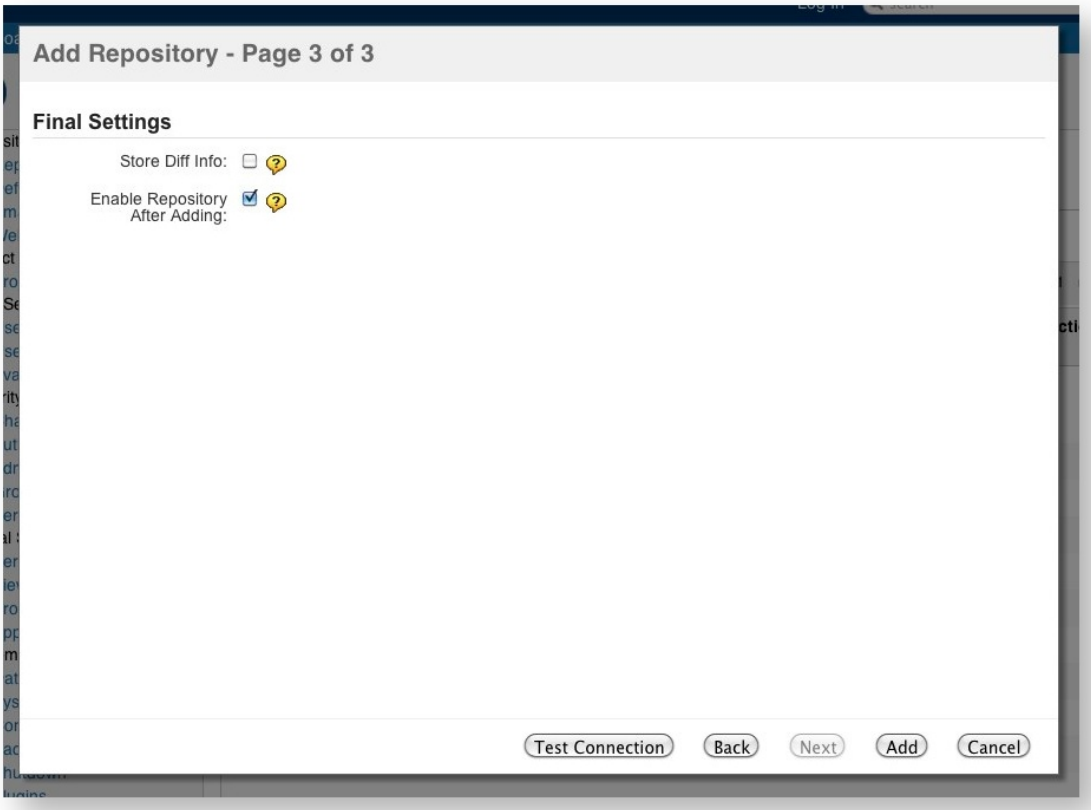
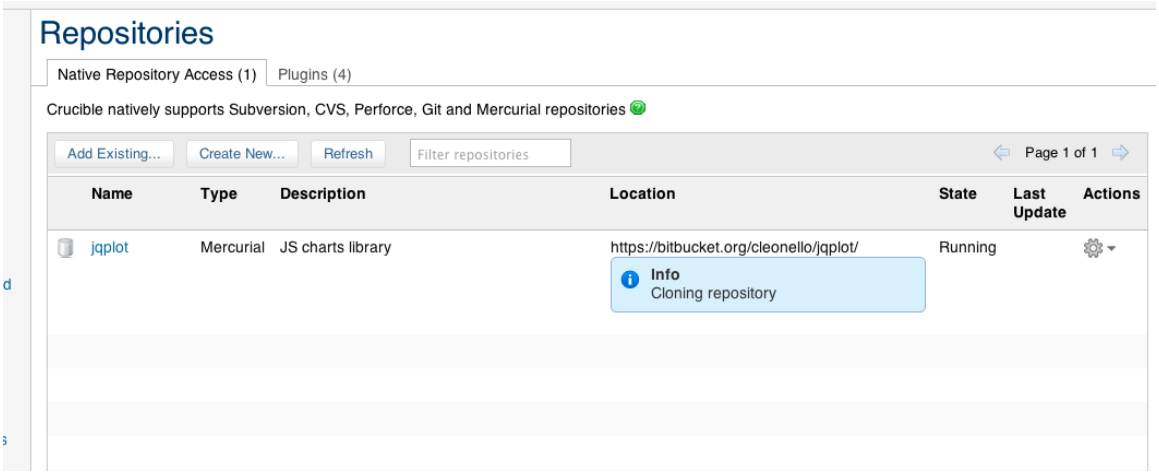


Your repository is now created in **Crucible** and the indexing should have started.



Create a project in Crucible

Crucible comes with a default project, with the key CR, but you will 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.

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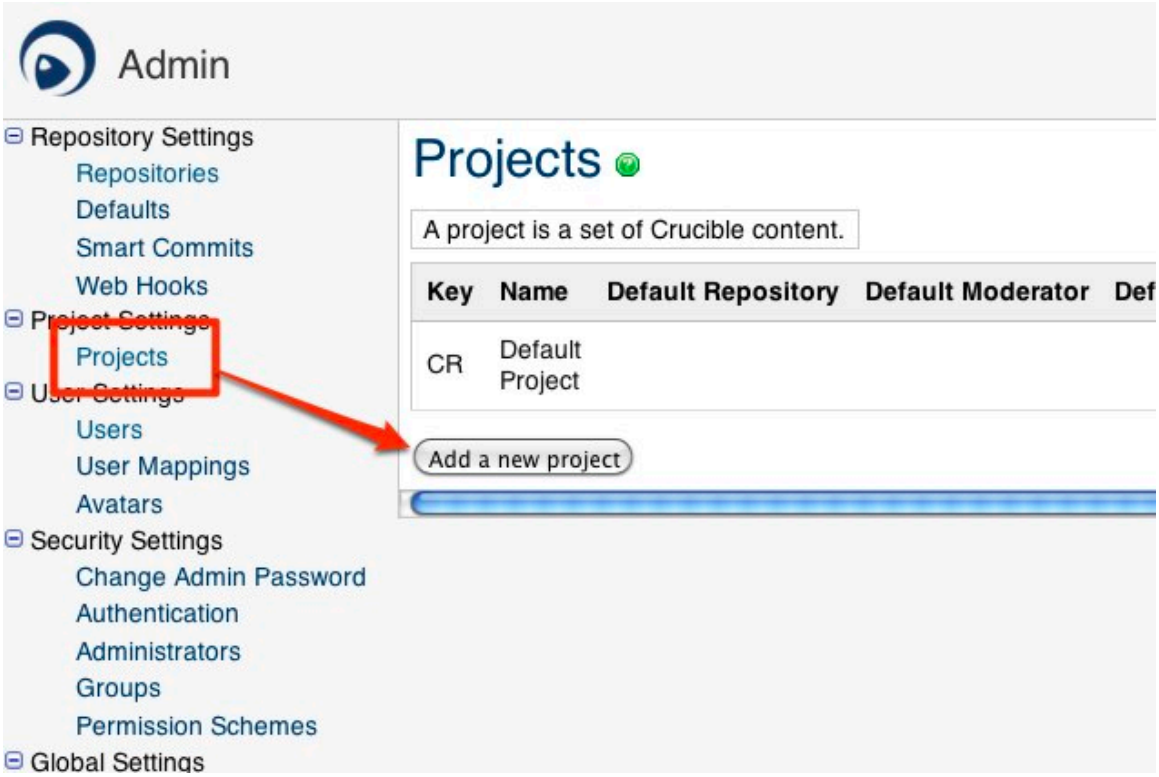
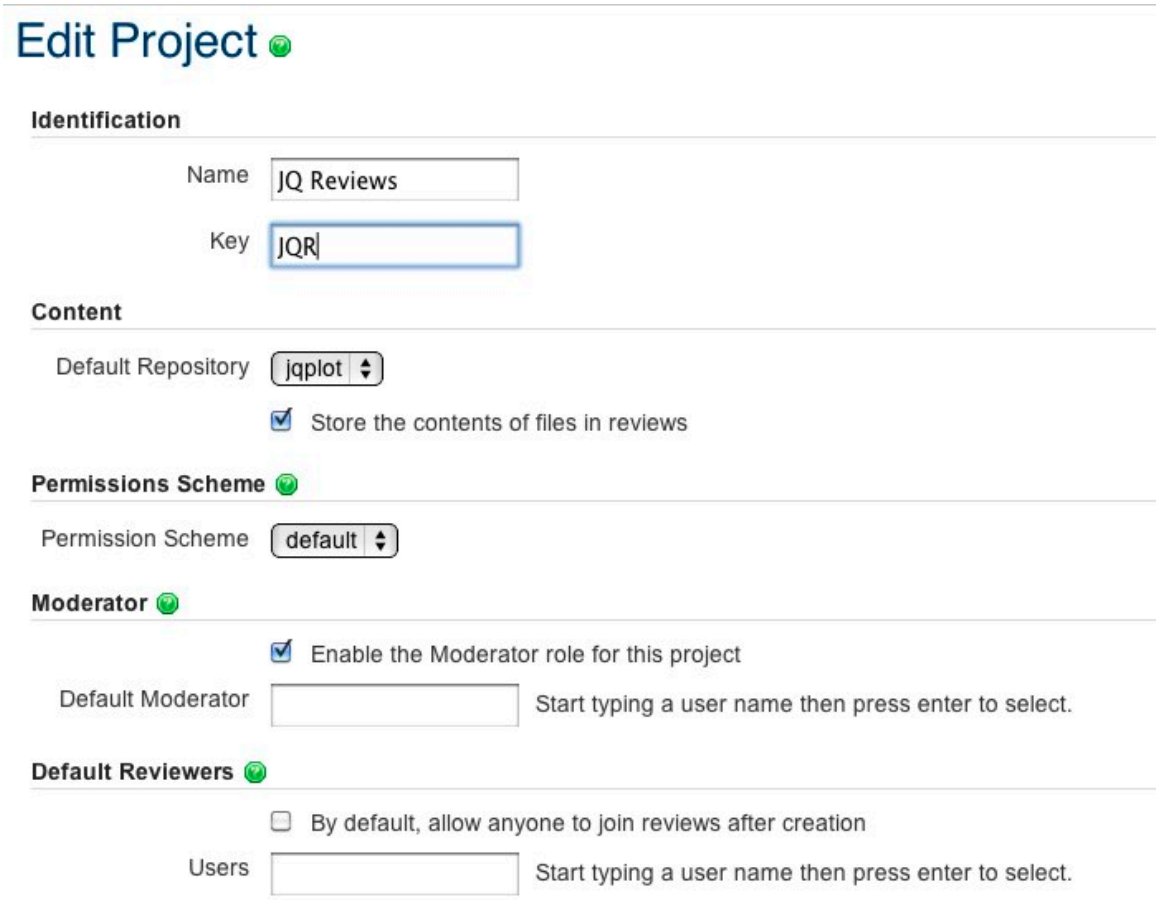


Fill in the form with the default settings for the project and hit **Save**.



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

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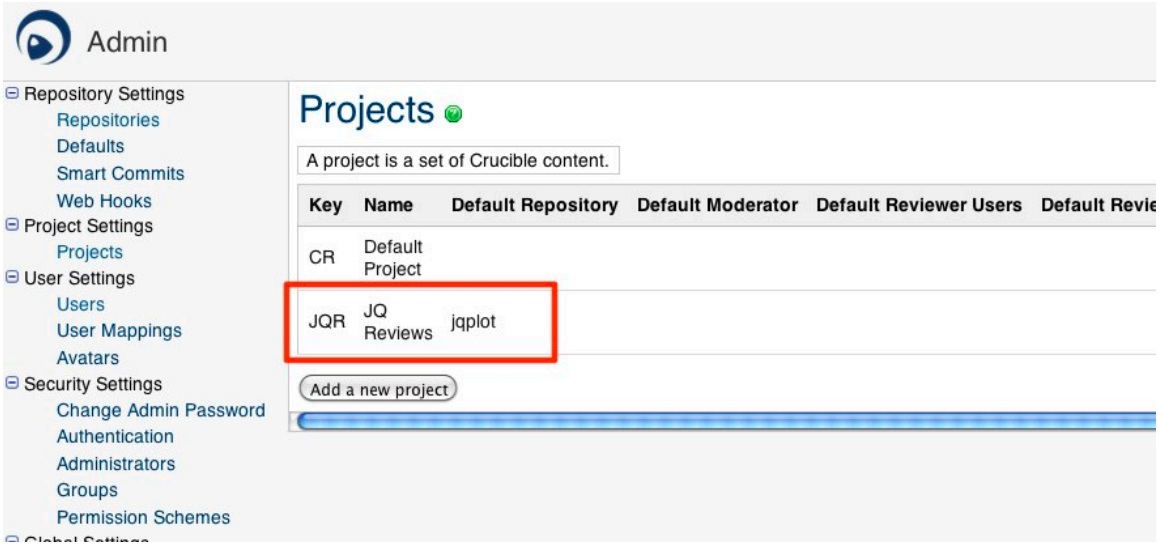
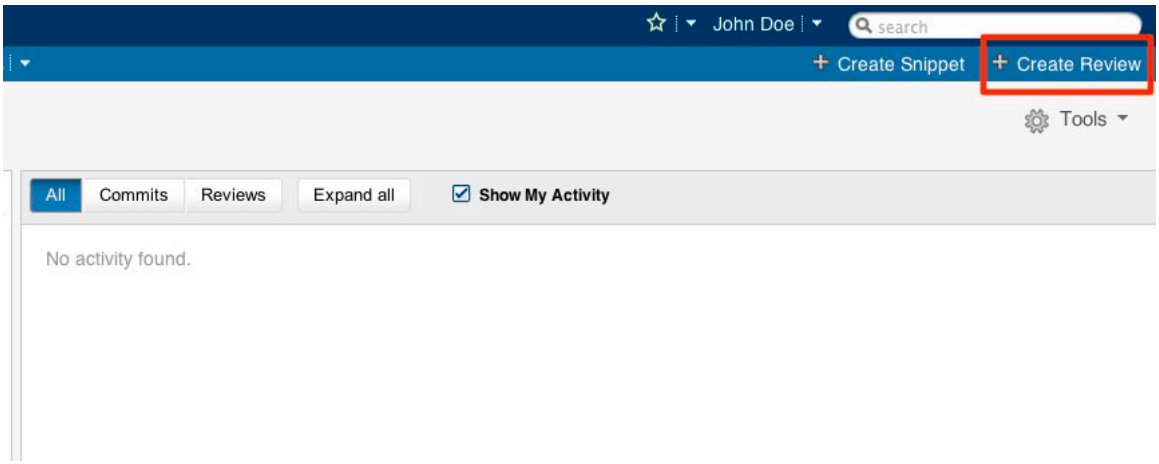


Create a review

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.

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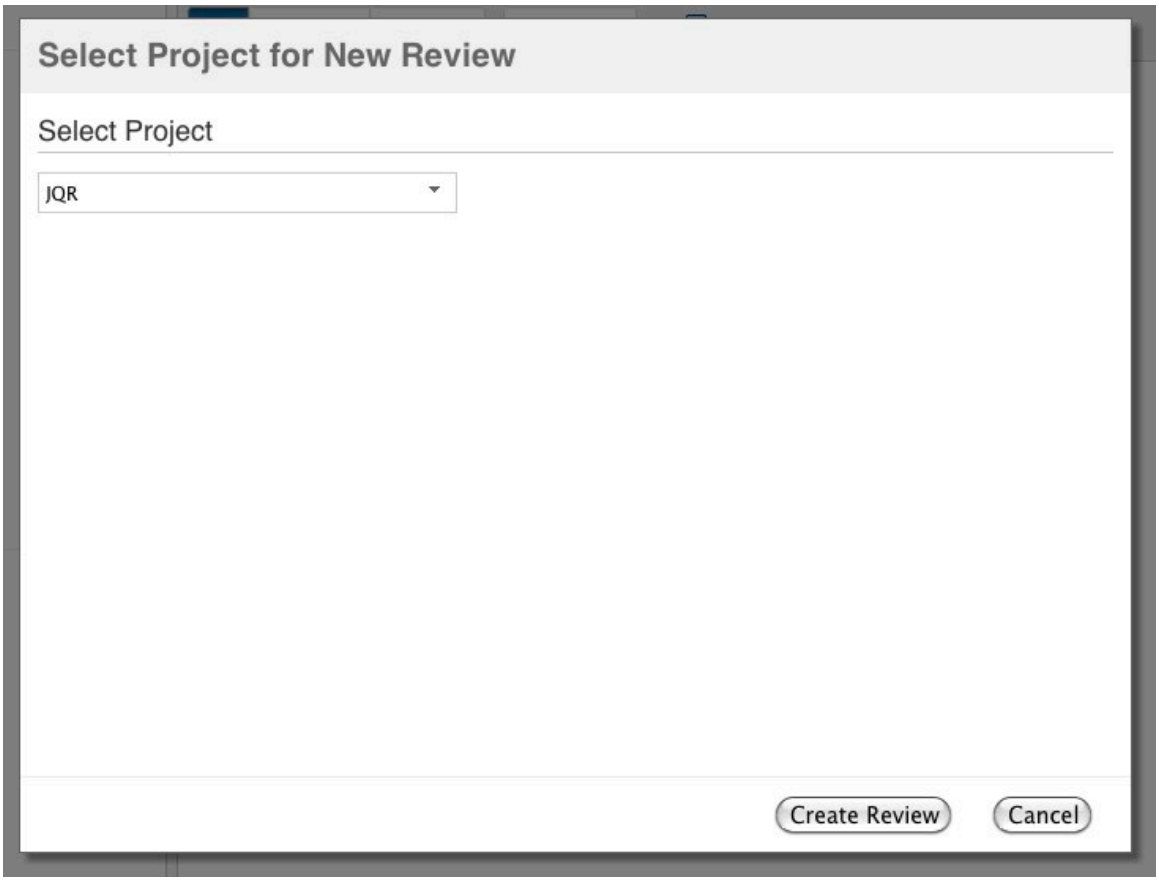
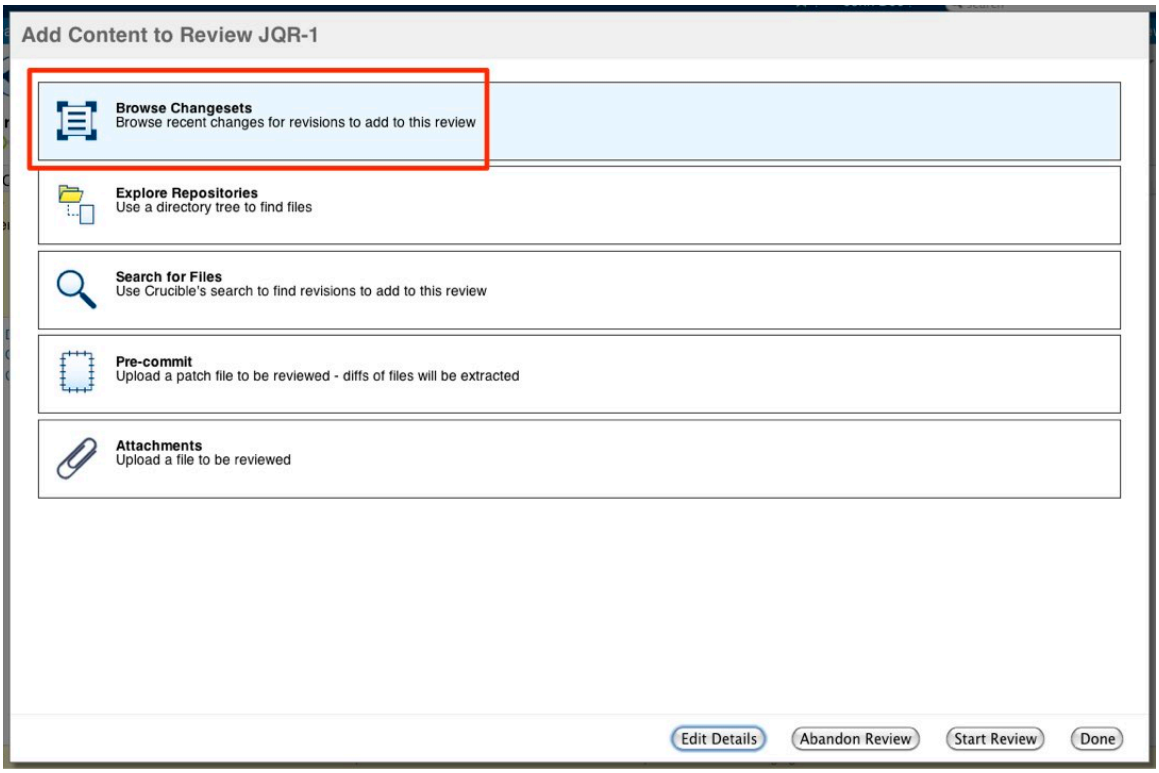


In the next screen click on **Browse Changesets** to see the list of changesets available to create the review.



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

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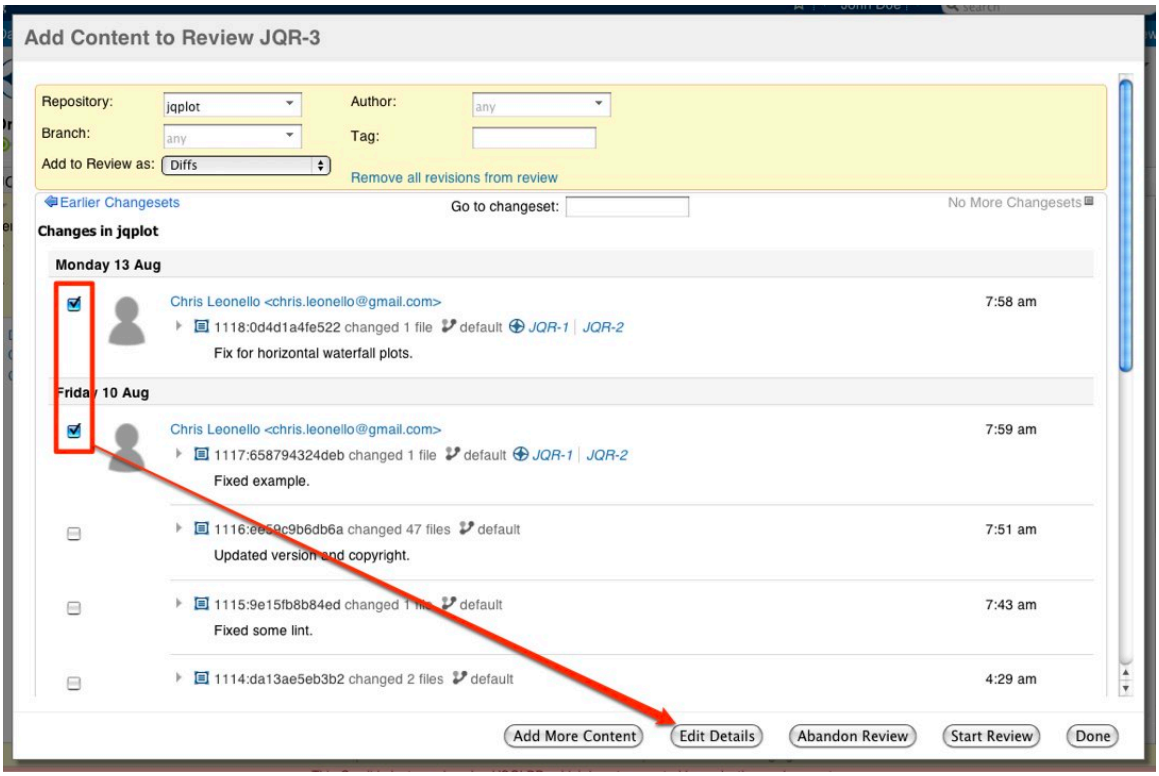
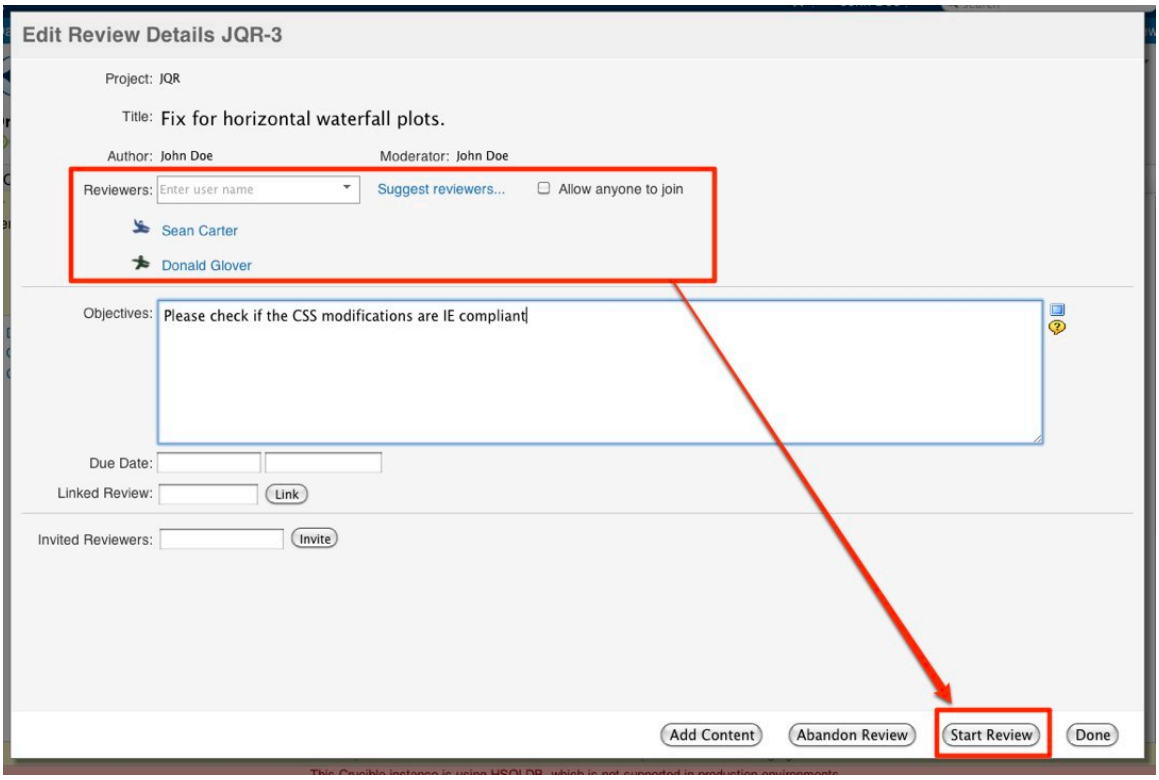


Once you have chosen your reviewers and updated the review information you can click on **Start Review** to begin the review process.



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

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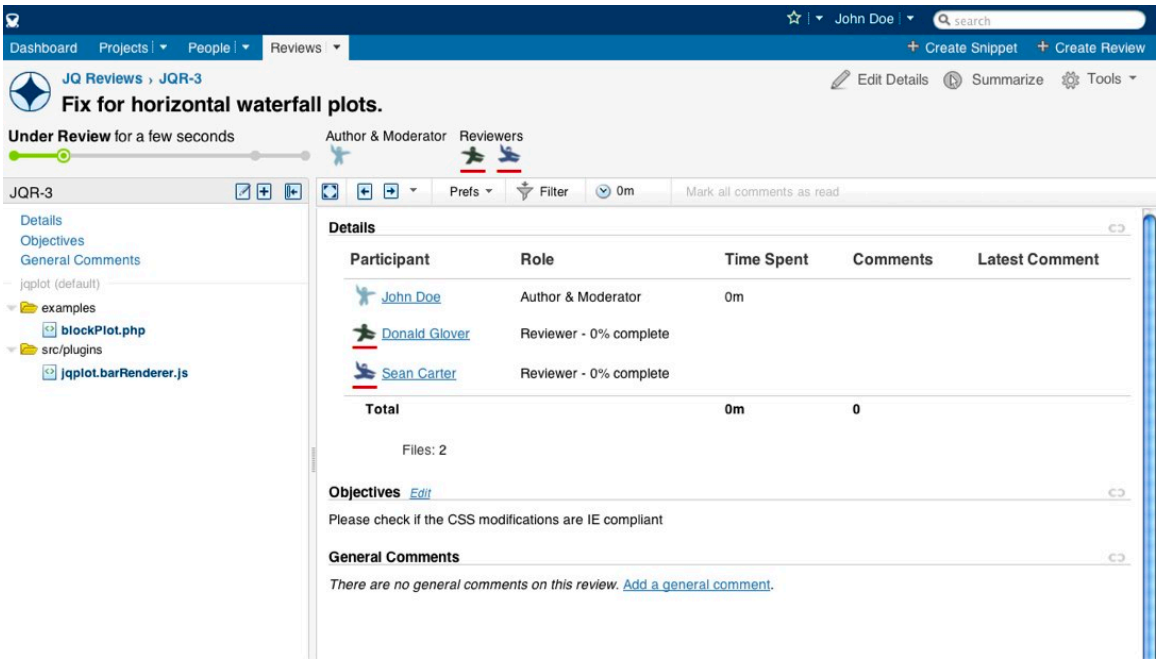
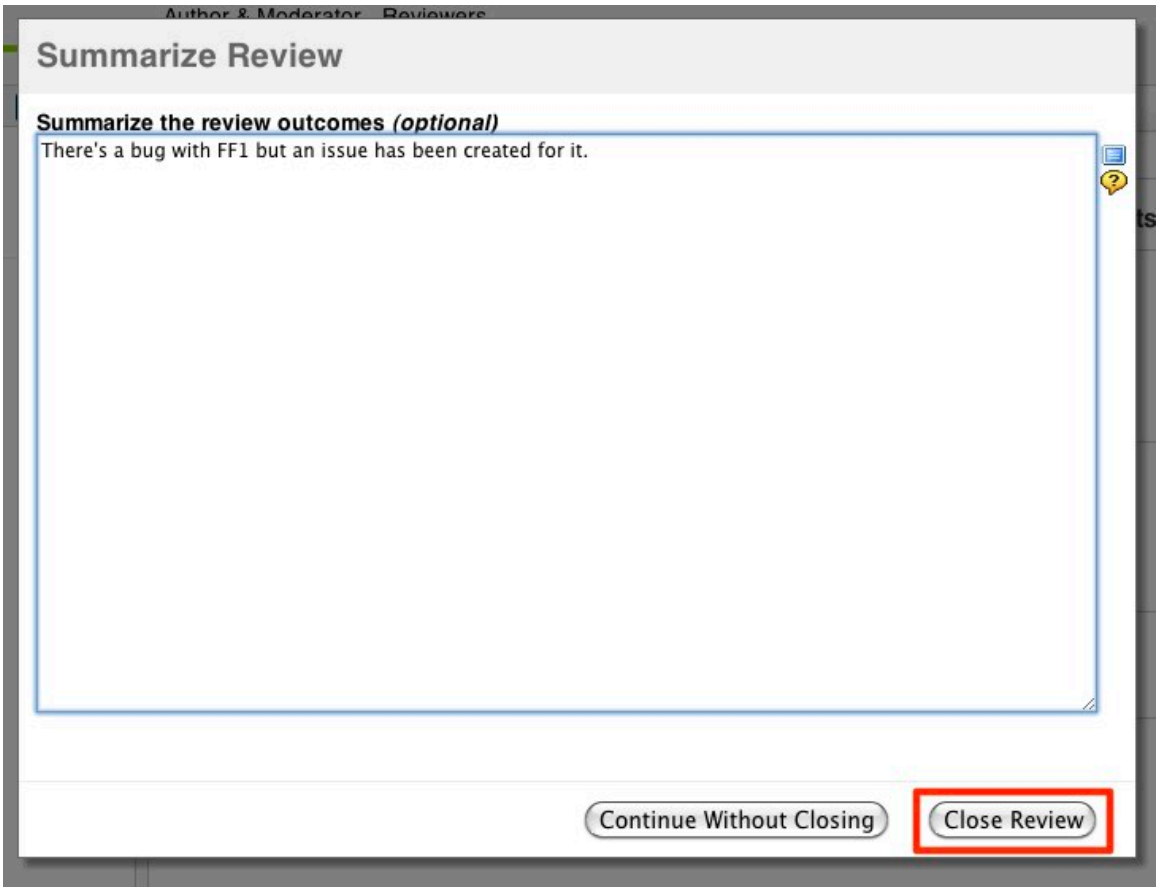


In order to close a review where you are the moderator you need to click on **Summarize** in the top right and then close the review from the modal window.



Using Crucible

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

- Using the Crucible screens
  - Using the Review Dashboard
  - Browsing all reviews
  - Browsing source files
  - Crucible Icons
  - Searching Crucible

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

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

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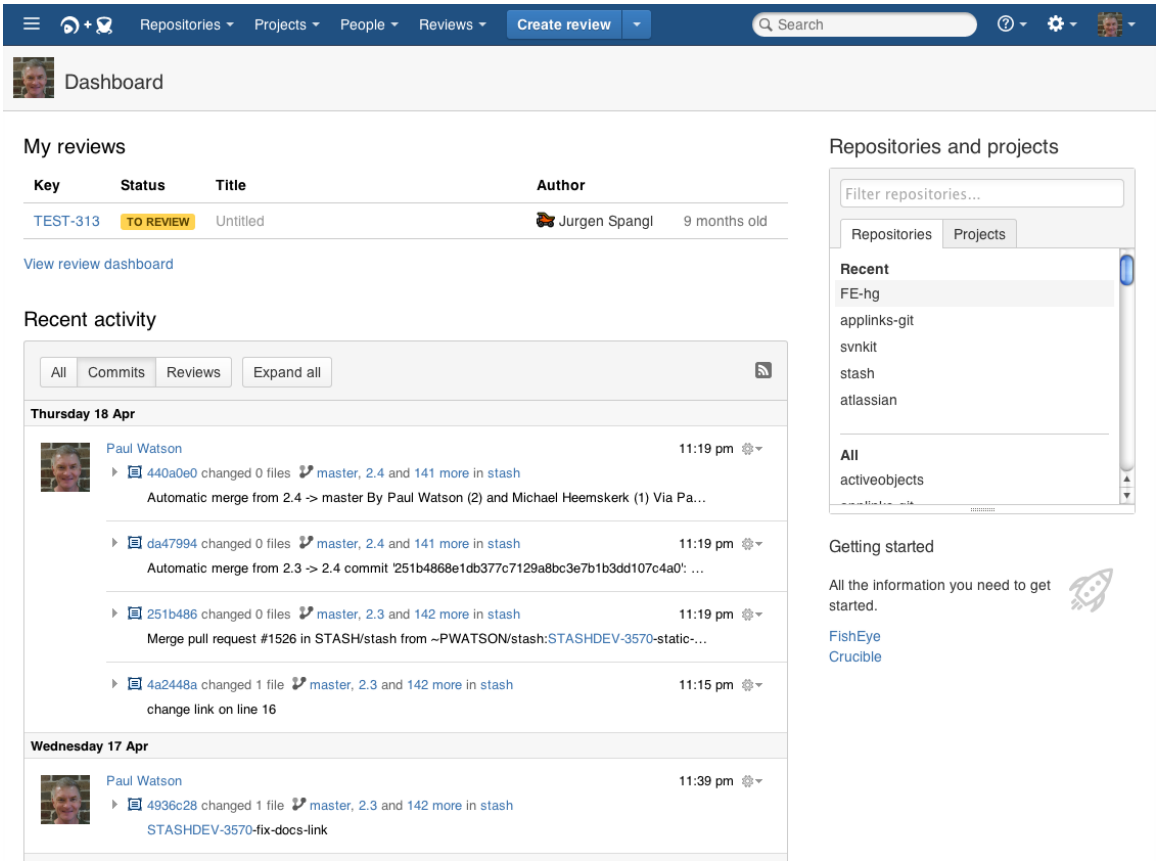

Header

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 r ecently 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.

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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

Using the Review Dashboard

Choose **Reviews** > **Review dashboard** from the header to see more information about your reviews.

Screenshot: The Review Dashboard

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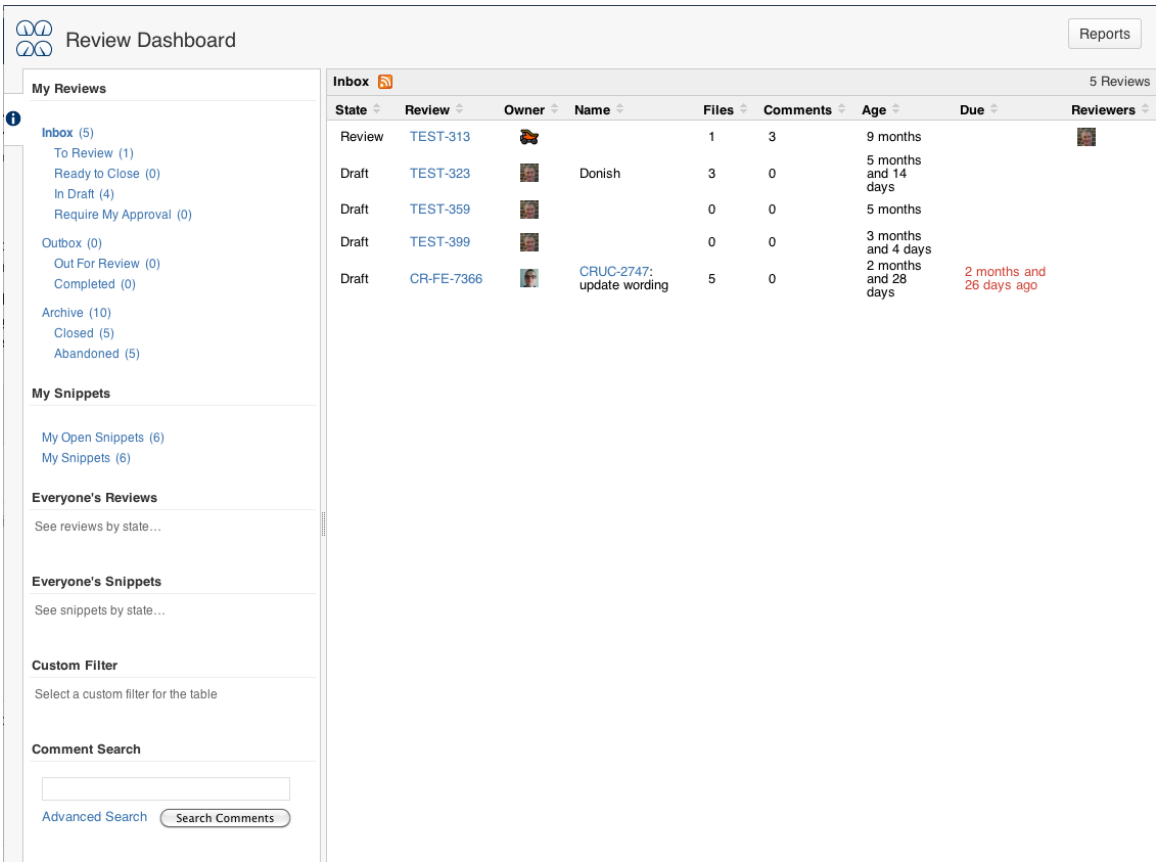

Using the 'My Reviews' sidebar

The 'My Reviews' sidebar contains information about reviews and snippets that you are involved with, for example how many reviews need your approval. Read more about the sidebar in Browsing all reviews.

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

Inbox	Click **Inbox** to show all reviews in these states: **To Review** — Click to show all reviews where you are a reviewer and haven't yet completed your review work. **Ready to Close** — Click to show all reviews where you are a moderator and haven't yet summarised and closed the review. **In Draft** — Click to show all reviews that you have created but have not yet been moved to the 'Approval' state or the 'Require Approval' state. **Require My Approval** — Click to show all reviews where you are a moderator and need to approve the review.

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Outbox	Click **Outbox** to show all reviews in these states: **Out for Review** — Click to show all reviews that you are a participant of, that have review work that is yet to be completed by other reviewers. **Completed** — Click to show all reviews that you are a participant of, and have been completed.
Archive	Click **Archive** to show all reviews in these states: **Closed** — Click to show all reviews that you are a participant of, that have been summarised and closed . **Abandoned** — Click to show all reviews that you are a participant of, that have been abandoned. You may wish to delete these reviews.
My Open Snippets	Click to show all open snippets created by you.
My Snippets	Click to show all snippets created by you.

Related topics

Browsing all reviews
Using favourites
Changing your User Profile

Browsing all reviews

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

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

To browse all reviews:

1. Choose **Reviews** > **Review dashboard**. The 'Reviews' page will display all open reviews, unless you have previously used a custom filter. See the screenshot below.
2. Browse your reviews, by clicking the links under 'My Reviews' and 'My Snippets' in the sidebar.
3. Browse reviews for all people by clicking the links under the 'Everyone's Reviews' and 'Everyone's Snippets' sections in the sidebar, as follows:

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

Screenshot: Browsing all open reviews

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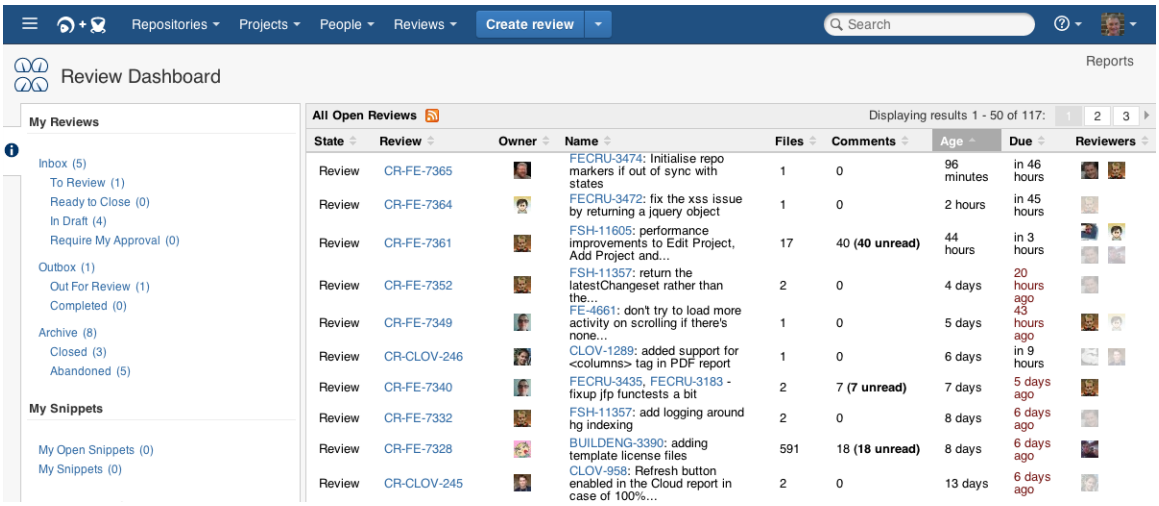

Related Topics

Using the Review Dashboard
Viewing reports

Browsing source files

When FishEye is installed with Crucible, the **Repositories** tab is available in the header.

To browse source files:

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

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

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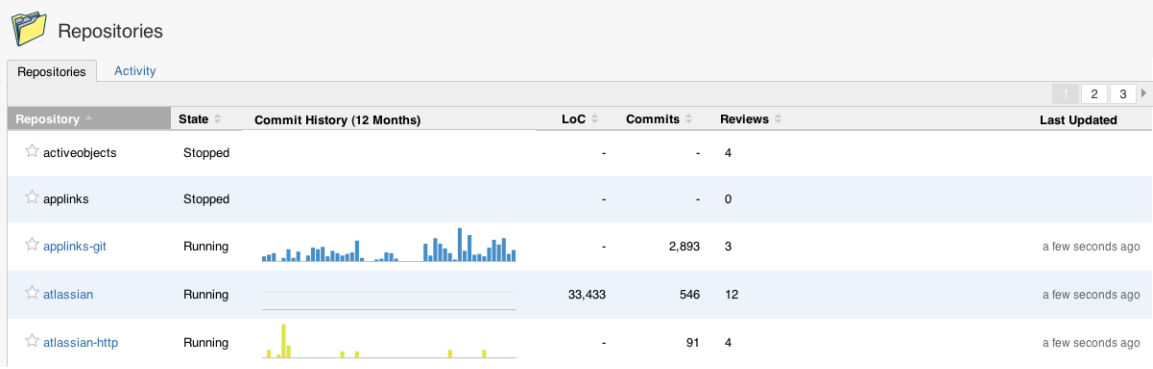
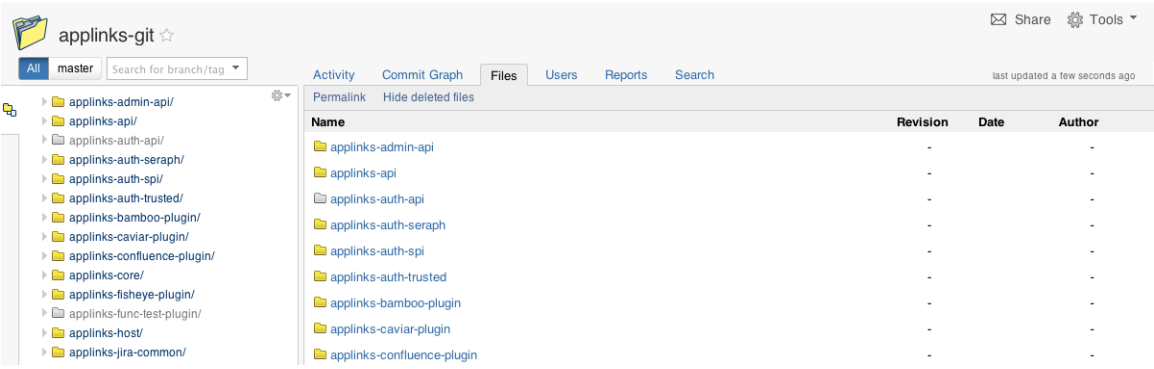
To download files, click the **Source** tab for the desired file, then right-click **Raw**.

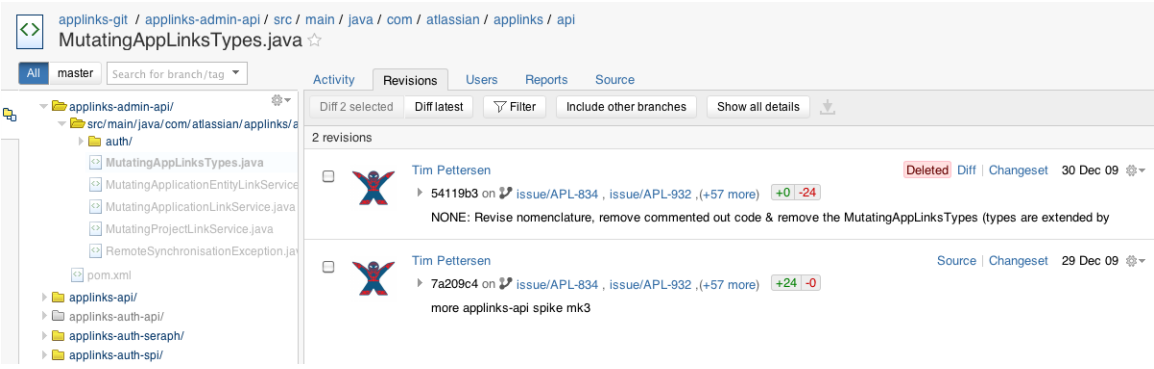
Screenshot: Viewing all repositories



Screenshot: Viewing a repository



Screenshot: Viewing a file



Crucible Icons

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

Icon	Description
	View review-level comments
	Go to the previous comment
	Go to the next comment
	Add a comment
	Go to the previous file in this review

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	Go to the next file in this review
	Expand all files
	Collapse all files
	A file included in this review
	A directory included in this review

Searching Crucible

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

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

On this page:

- Using the Quick Search
- Filtering reviews
- Searching for Review Comments
- Related pages

Using the Quick Search

Before you begin:

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

To search Crucible using the Quick Search:

1. Enter your search terms in the search box in the Crucible header. Crucible offers a number of criteria that you can use to refine your results, see Refining your Quick Search Criteria below.
2. Results will appear in a dropdown, as you type. Results will attempt to be matched against the review name, project and user.
    - If you want to use a quick search result, use the up- and down-arrows on your keyboard and press enter or use your mouse to select the item.
    - If the quick search results don't have what you are looking for, press enter to run a search. Ensure that no items in the dropdown are selected when you press enter.
3. The Quick Search results page will be displayed. You can filter your results further, as described in Filtering Quick Search Results below.
   Results are sorted by relevance and boosted if they were edited recently. A maximum of 10 results are displayed per page.
    - If you have **integrated your Crucible instance with a JIRA instance**, you can display a summary of any JIRA issues referenced in your search results by hovering over the issue key. For more details, see JIRA integration in Crucible.
4. If you want to run another search, enter your new criteria in the main search box or in the search box in the header.
   Note, only the search box in the header provides "quick nav" results.

Screenshot: Quick Search displaying "quick nav" matches

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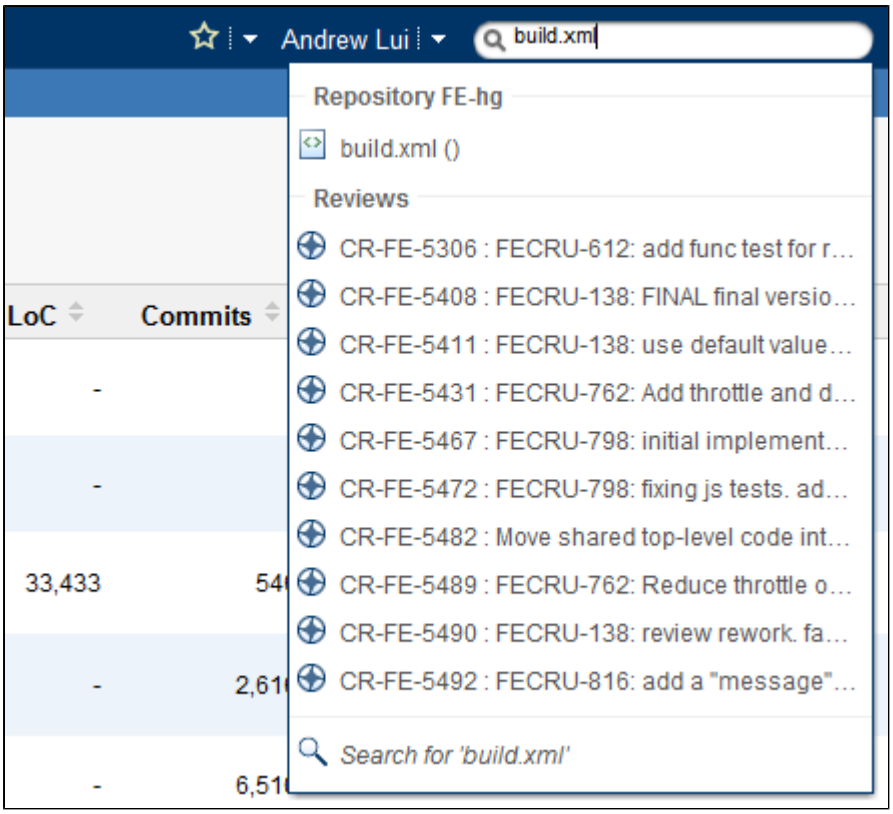

Refining your Quick Search Criteria

You can refine your search criteria before executing the search:

Search Tool	Description	Example
Field Handles	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. • `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 seea list of repositories.

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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. ⚠️ *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.*
Reviews	Click this link to restrict your results to reviews that have a title, objective, key, linked reviews or linked issues that match the search criteria.
Comments	Click this link to restrict your results to reviews that have comments that match the search criteria.

Filtering reviews

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

To filter a list of reviews:

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

Filter	Description
Title	Find reviews by searching for words within the title.
Project	Find reviews under a particular project.
Author	Find reviews moderated by a particular authors.
Moderator	Find reviews moderated by a particular 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.
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

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To search for review comments:

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

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

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

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

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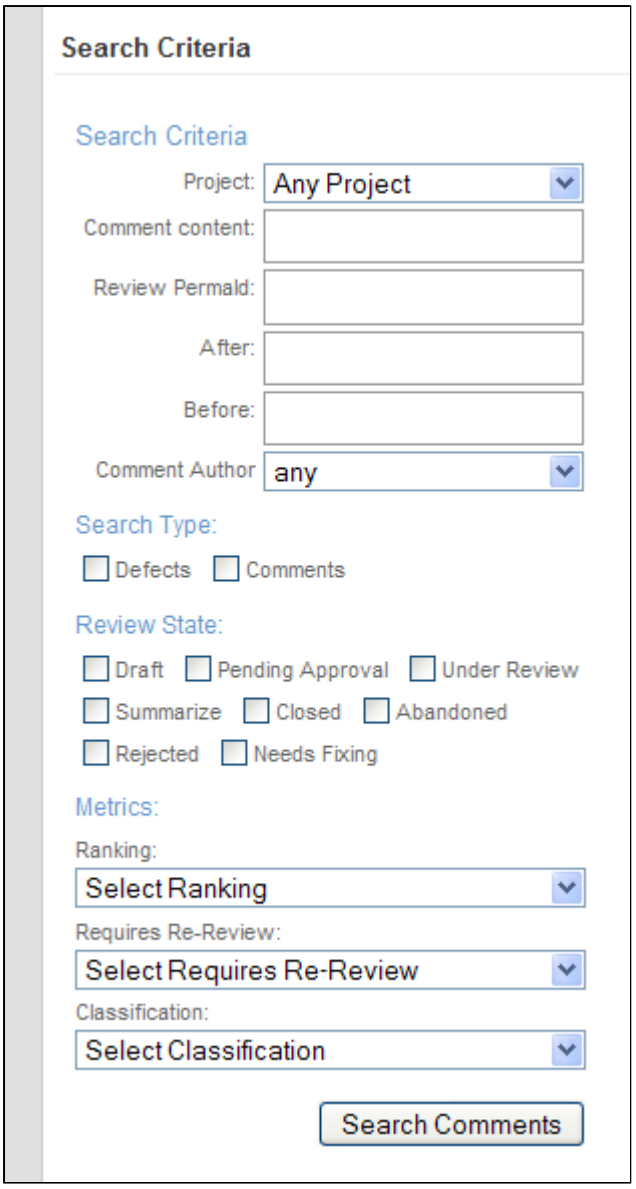

Screenshot above: Search Comment Filter Options

Displaying Defect Metric Charts for Comment Search Results

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

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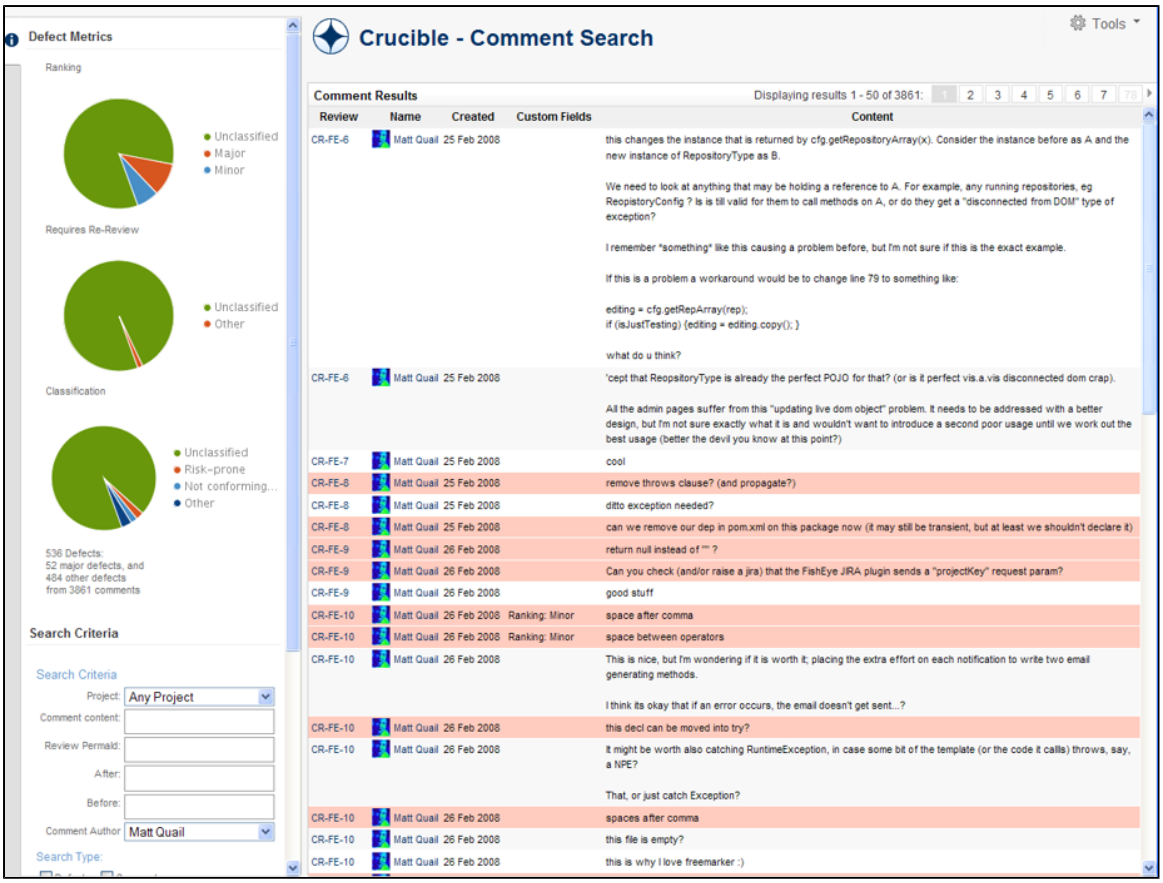

Screenshot above: Comment Search Results

Related pages

Searching FishEye *(FishEye documentation)*

Viewing people's statistics in Crucible

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

On this page:

- Opening the list of People
- Viewing a Person's Activity Screen
- Viewing charts of a person's activity

Opening the list of People

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

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

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

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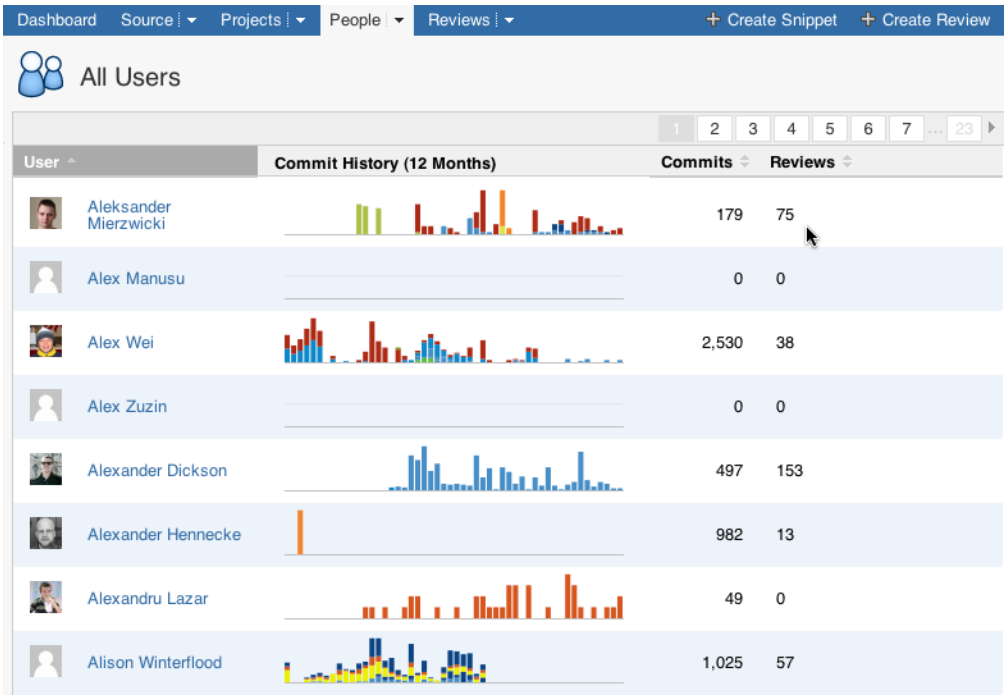

Viewing a Person's Activity Screen

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

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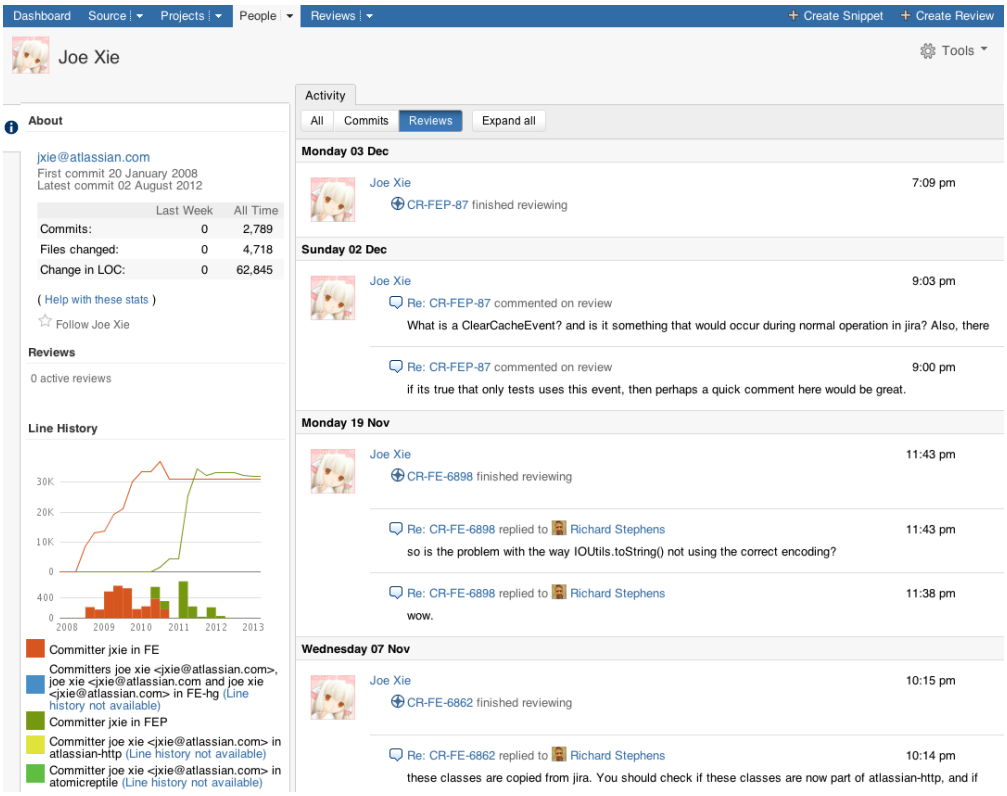

Some users may not appear to have the correct number of Files Changed or LOC, despite regularly committing. In this situation, if they have committed to a directory which is not covered by the regexes in your symbolic definition (i.e. they have committed to a directory that is neither trunk, branches 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.

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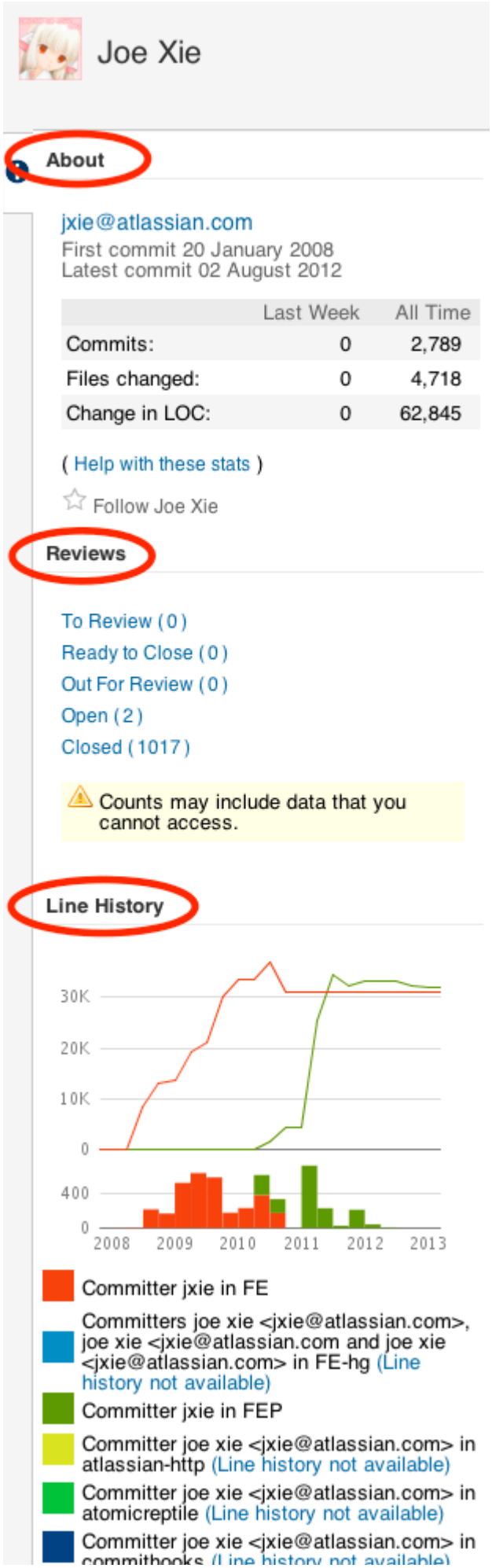

- **Reviews**
  The Reviews section shows several filters that you can click to constrain the review items shown in the right-hand pane. The options are **To Review**, **Ready to Close**, **Out For Review**, **Open** and **Closed**.
- **Line History**
  The Line History section shows a graph with the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

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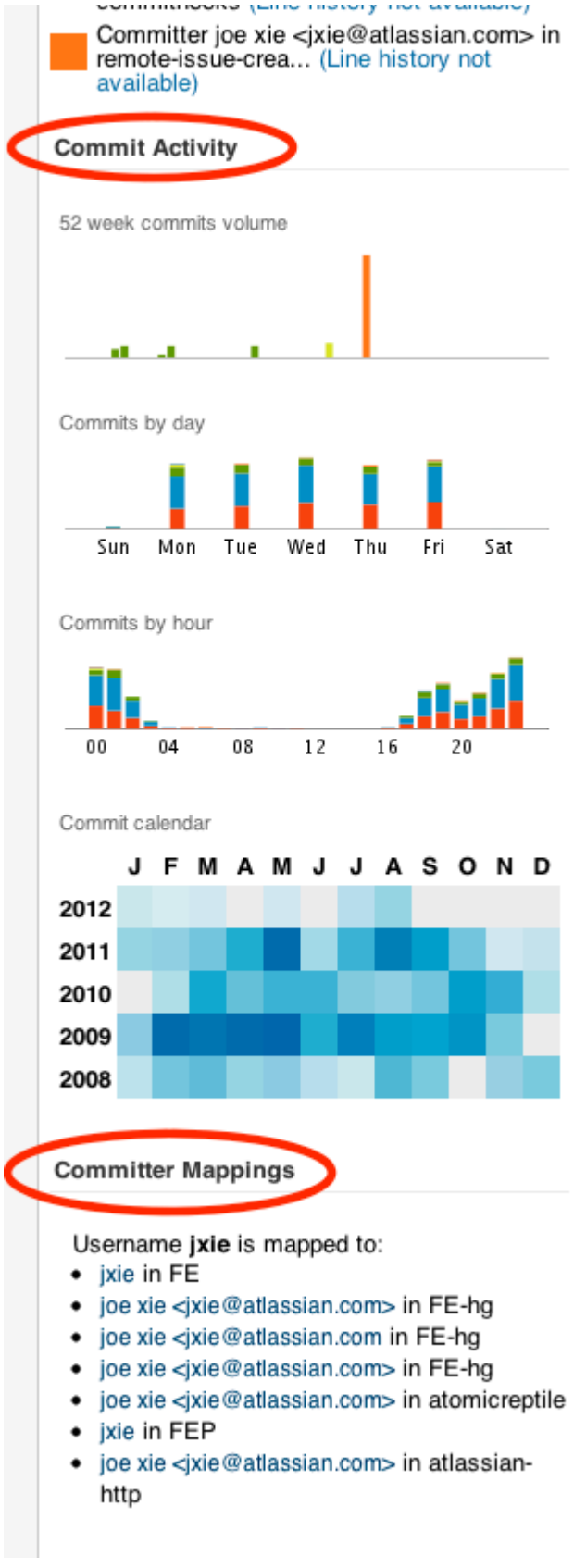

Browsing Projects

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

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

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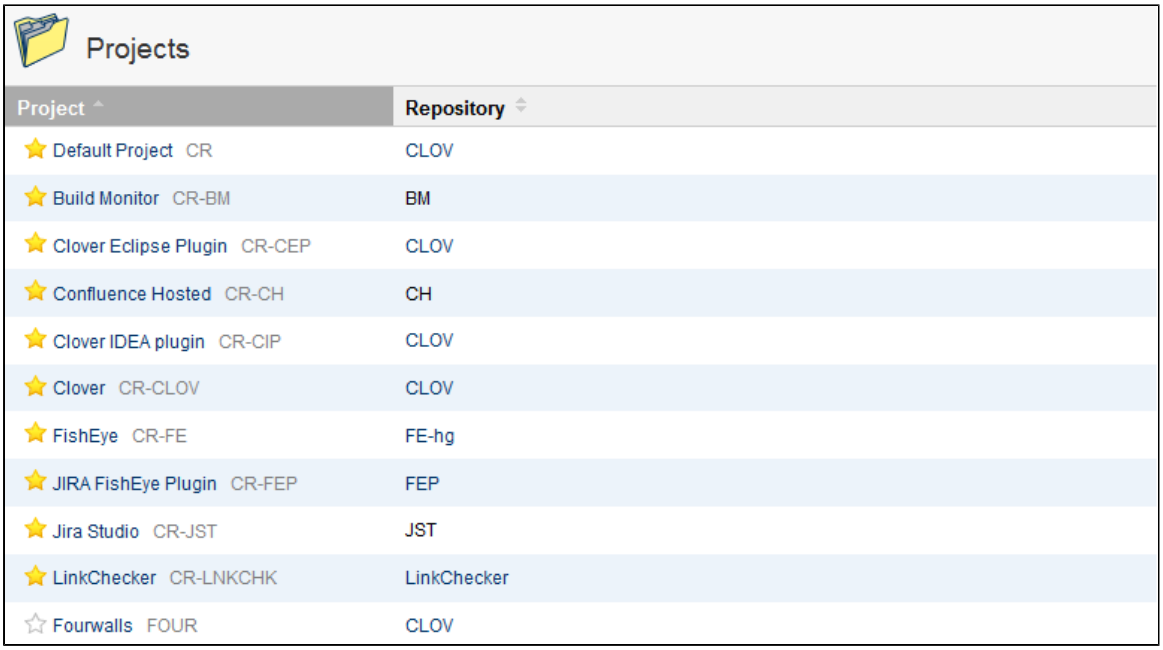
There are a number of sub-tabs on this page, listed in the table below.

Sub-Tab Name	Description
Activity	• All Activity — The default view. • Commits — Shows commits in the project (visible when using FishEye). • Reviews — Shows reviews in the project. • Issues — Shows JIRA issues related to this project. Only visible if you have set up JIRA integration in Crucible. • Show Revisions — Shows or hides revisions in the project (visible when using FishEye). • Earlier Activity (Left Arrow icon) — Loads a page of earlier project activity. • Later Activity (Right Arrow icon) — Loads a page of later project activity.
Reviews	Shows recent reviews in the project.

The Projects tab is only visible in Crucible. Read more about the definition of a project.

Screenshot: The Crucible Projects Index



Screenshot: The Crucible Project View

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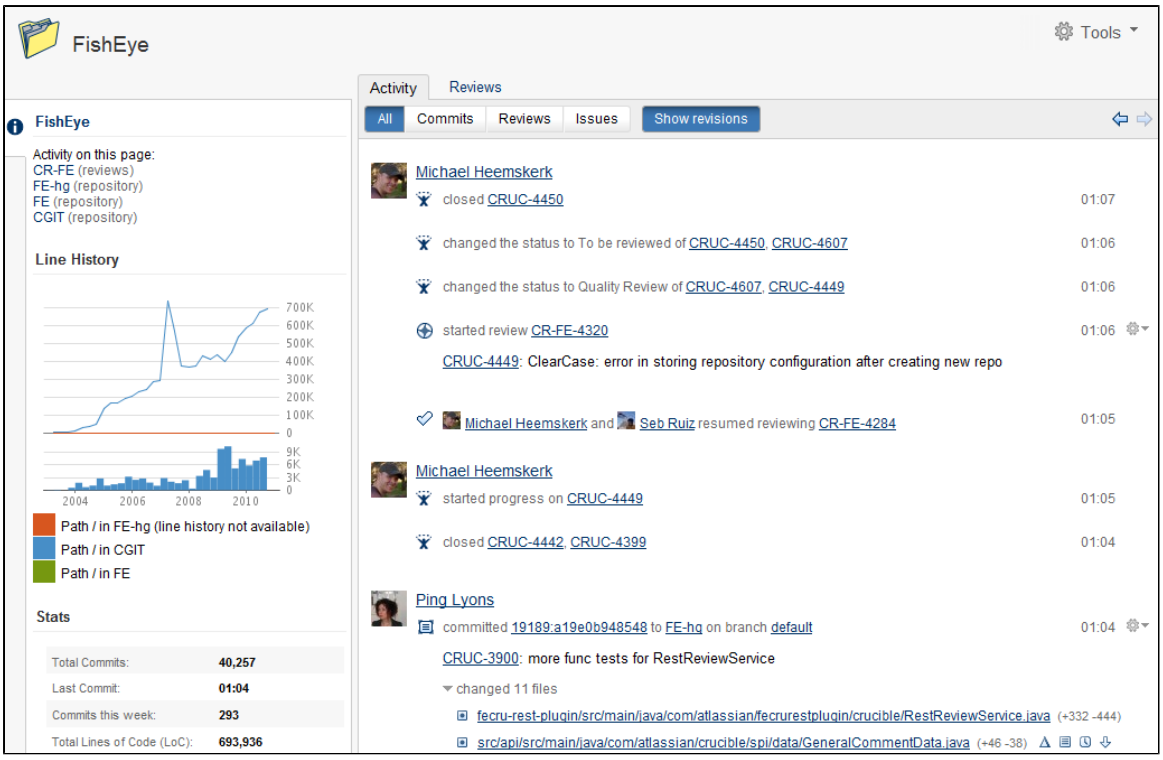


Viewing Project Statistics

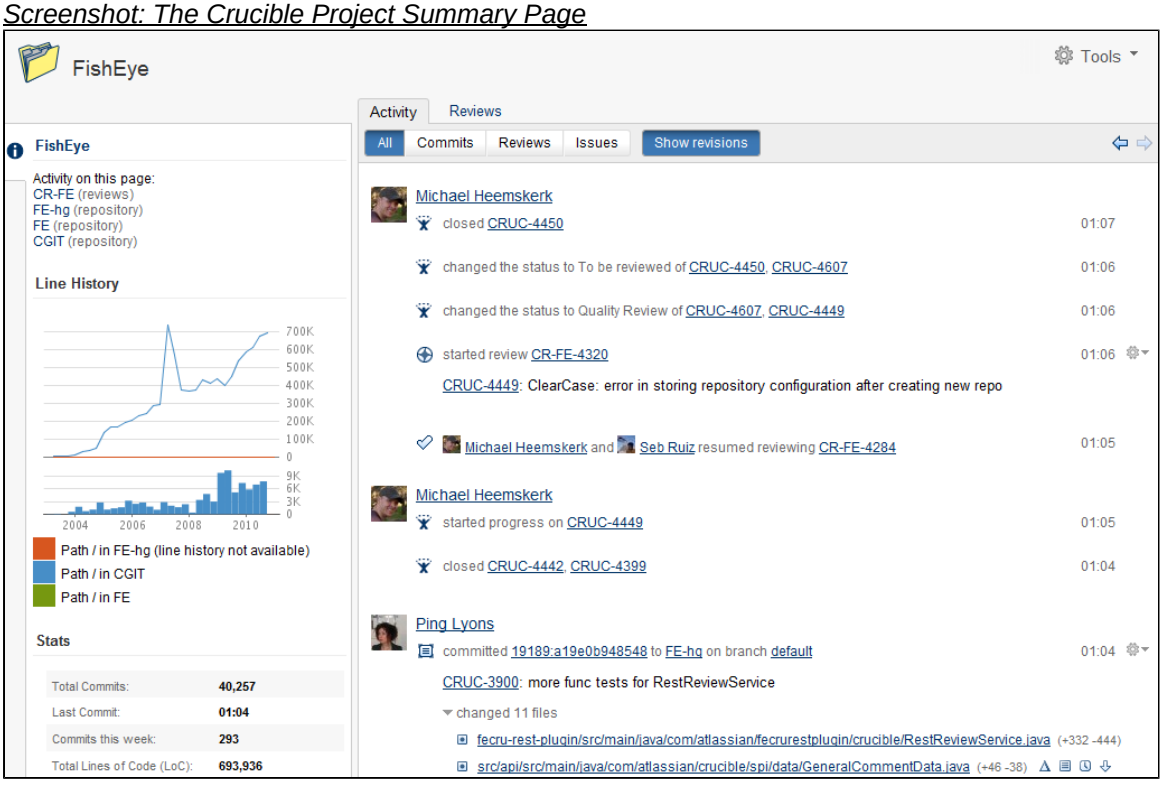
This page explains the layout of the Project Summary page.

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



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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.

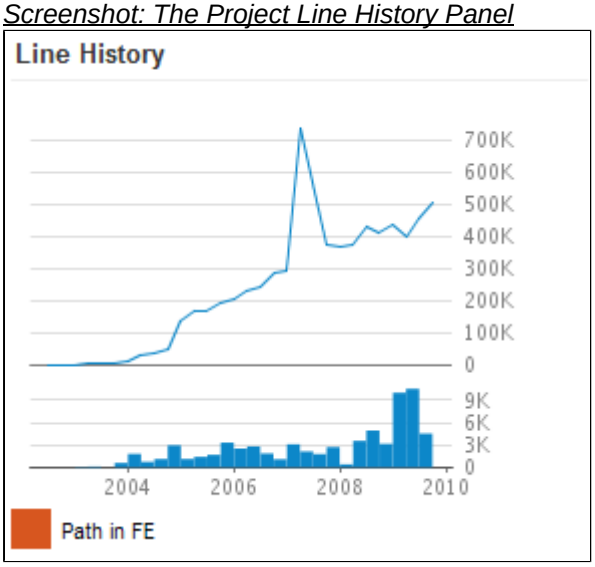
Project Name Panel

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.

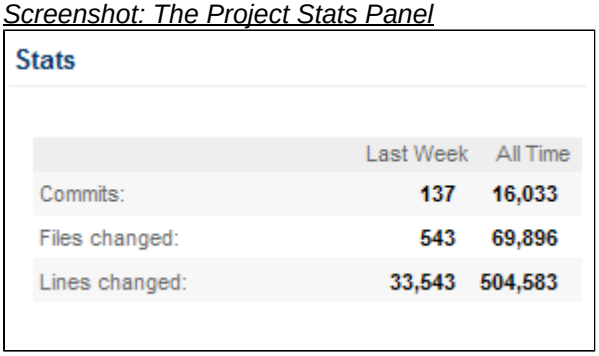
Screenshot: The Project Line History Panel



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



Project Commit Activity Chart

This panel contains a number of charts:

Chart	Description

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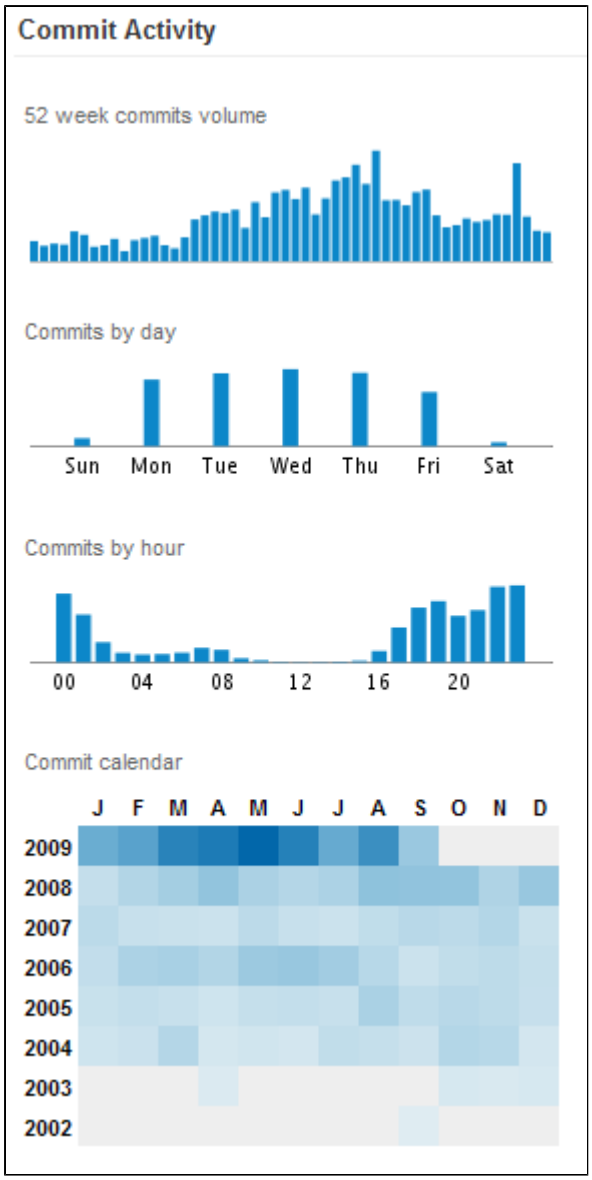

52 week commits volume
This chart shows the amount of commits, shown by week over a one year period.

Commits by day
This chart shows the amount of commits, graphed by day over the past week.

Commits by hour
This chart shows the amount of commits, graphed by hours over the past day.

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.

Changing your User Profile

See Changing your User Profile in the FishEye documentation.

Viewing Your Favourites

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

See Using favourites for instructions on how to add new favourites.

On this page:

- Viewing your Existing Favourites
- Renaming a Favourite
- Removing a Favourite

Viewing your Existing Favourites

To view your favourites,

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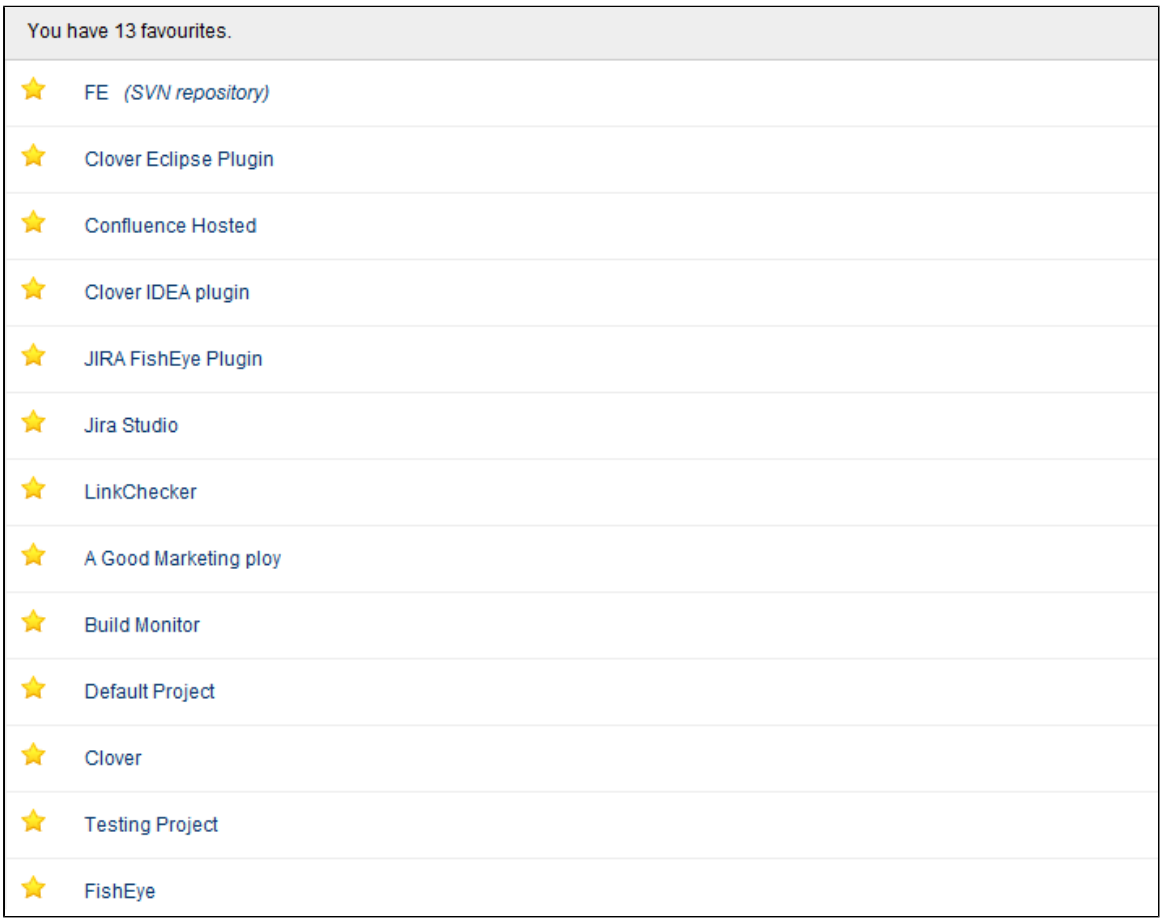
1. Click the favourites icon ( ) in the header.
   The code reviews, changesets, files, people and repositories that you have selected will be displayed in a list on the dashboard (see screenshot).
2. Click the favourites icon ( ) next to a favourite to show the dialogue for renaming (i.e. changing the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

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

Screenshot: Viewing favourites



Renaming a Favourite

To rename a favourite,

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

Screenshot: The 'Update favourite' dialogue

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Removing a Favourite

To view your favourites,

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

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

Screenshot: The 'Update favourite' dialogue

Using favourites

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

See Viewing Your Favourites for instructions on how to view your existing list of favourites and how to rename and remove favourites.

On this page:

- Adding a review to your favourites
- Adding a review comment thread to your favourites
- Adding a project to your favourites
- Adding a person to your favourites
- Adding a changeset to your favourites
- Adding a file or folder to your favourites
- Adding a repository to your favourites

Adding a review to your favourites

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

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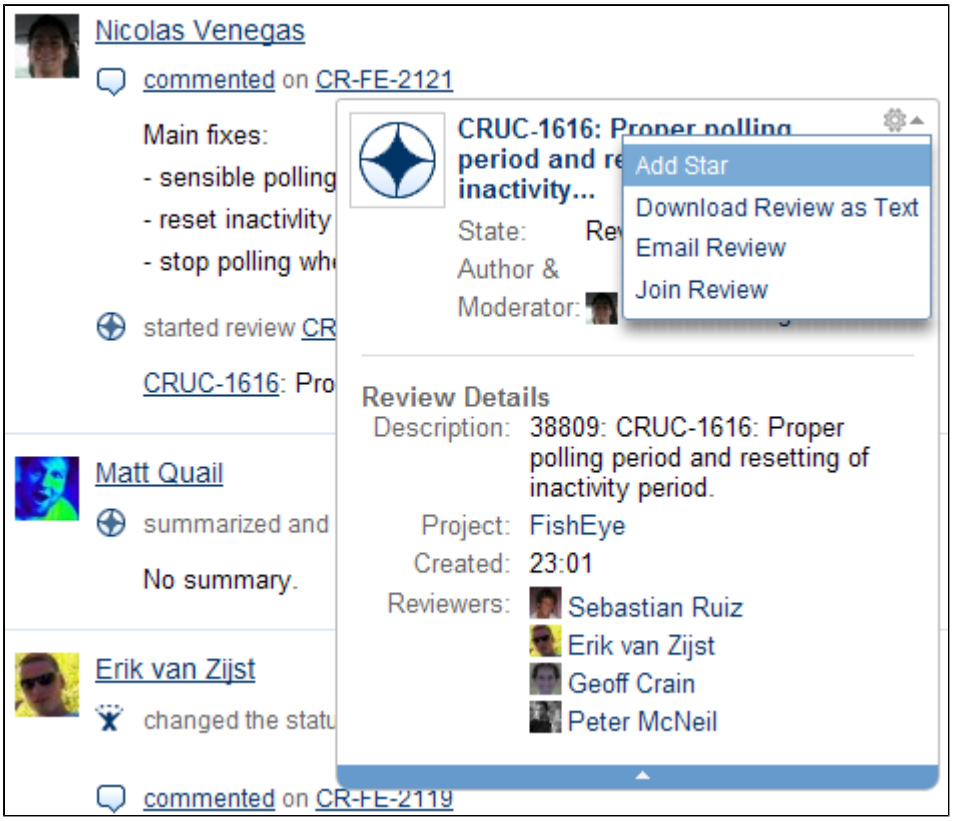
your favourites.

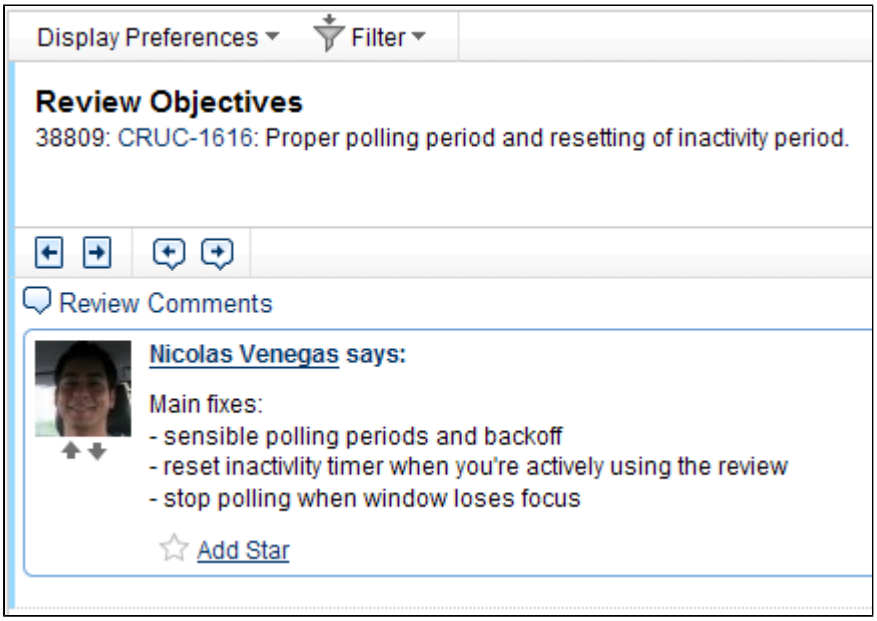
Screenshot: Adding a Review To Your Favourites



Adding a review comment thread to your favourites

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

Screenshot: Adding a Review Comment Thread to Your Favourites



Adding a project to your favourites

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

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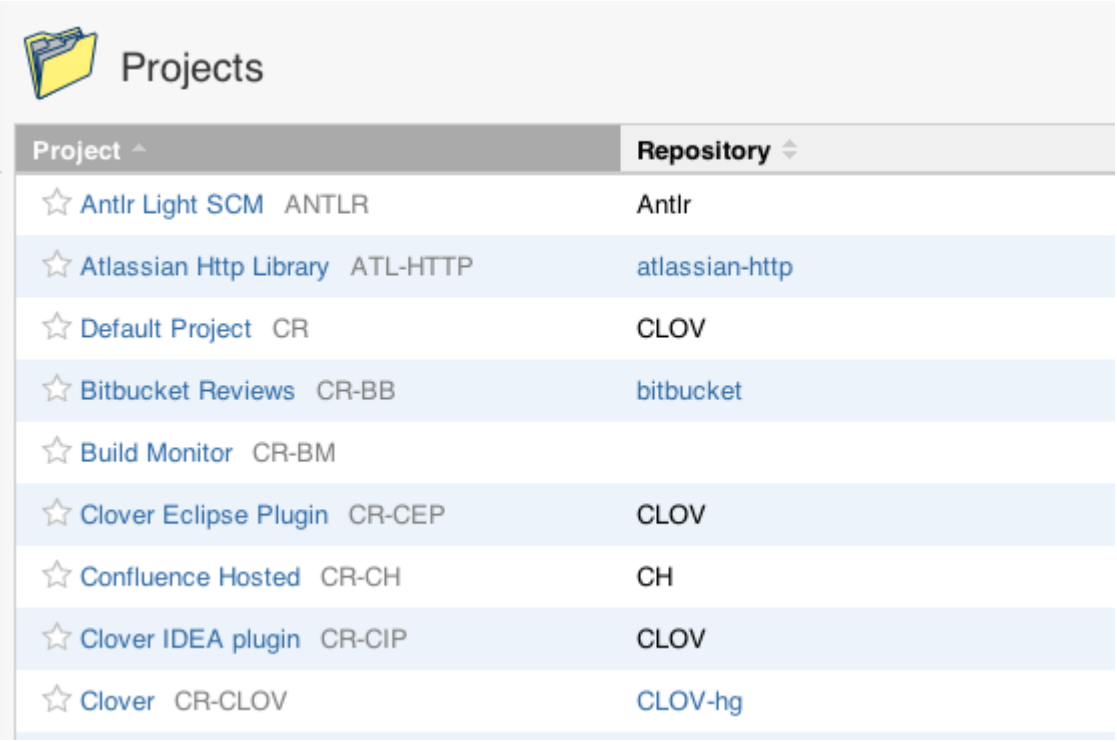
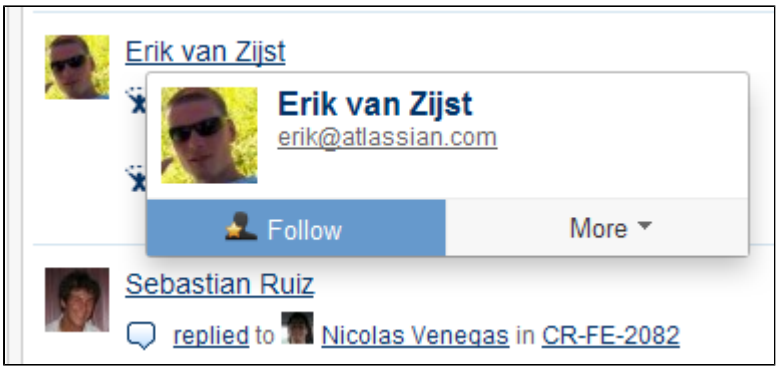
Screenshot: Adding a Project to your Favourites



Adding a person to your favourites

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

Screenshot: Adding a Person to Your Favourites



Adding a changeset to your favourites

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

Screenshot: Adding a Changeset to Your Favourites

Adding a file or folder to your favourites

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

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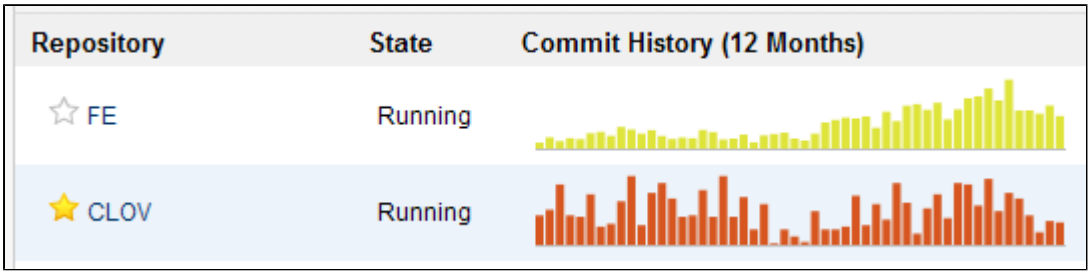
breadcrumb links at the top of the screen.

Screenshot: Adding a File or Folder to Your Favourites

Adding a repository to your favourites

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

Screenshot: Adding a Repository to Your Favourites



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)

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h	Go to previous thread (skips replies)
]	Go to next unread comment
[	Go to previous unread comment
r	Reply to a comment
m	Toggle comment read/unread status

File navigation

Key	Function
j	Go to the next element (file, comment, defect or diff hunk depending on your current context)
k	Go to the previous element (file, comment, defect or diff hunk depending on your current context)
shift + k	Go to first file
shift + j	Go to last file
u	Go to next unreviewed file
i	Go to previous unreviewed file
y	Set file reviewed and go to next unreviewed file
shift + y	Toggle file reviewed/unreviewed status
e	Expand current file
c	Collapse current file
shift + e	Expand all files
shift + c	Collapse all files

The Crucible workflow

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

On this page:

Crucible Workflow
Example workflow: Two participant code review
1. The author starts the review
2. The reviewer comments on the code
3. The author responds to the comments
4. The author closes the review

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

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

Crucible Workflow

There are a number of different ways in which you can use Crucible for code reviews. The following diagram

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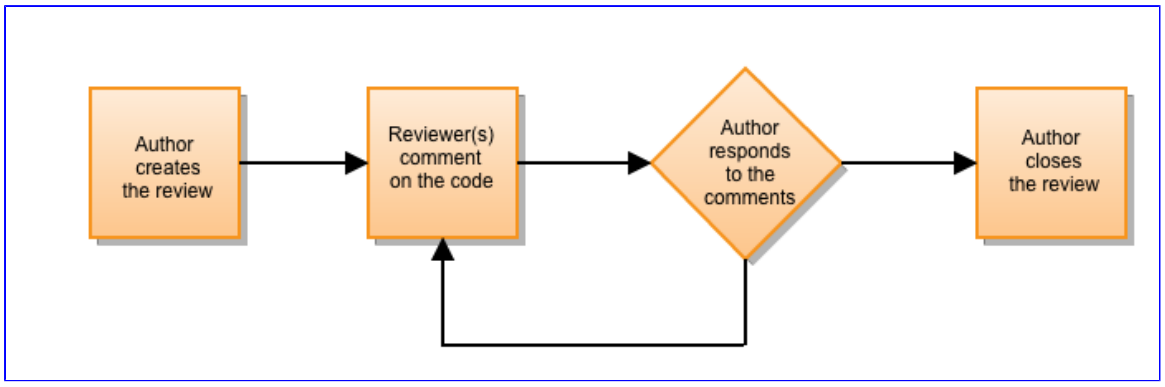
shows the basic workflow that applies to most Crucible code reviews.

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.

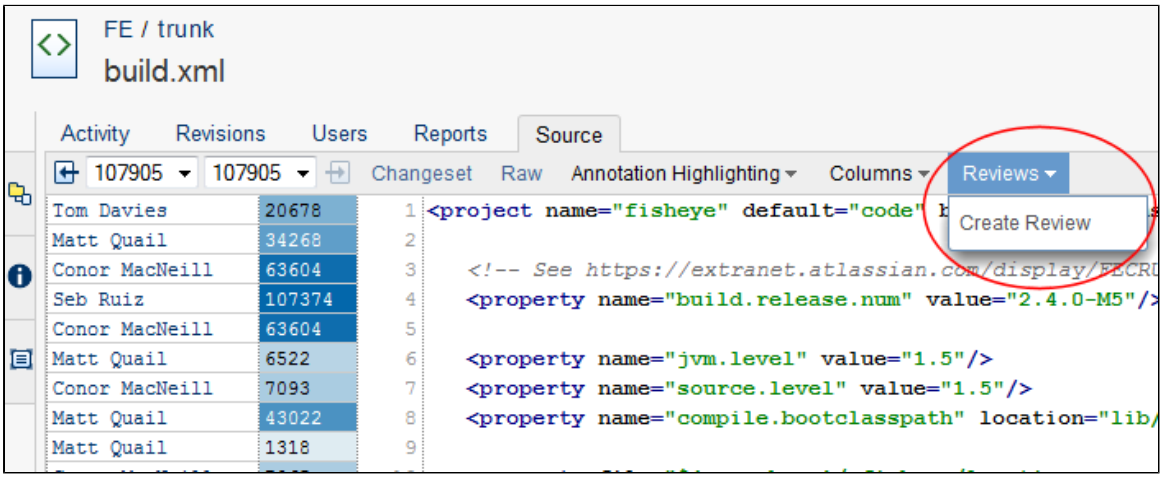
Example workflow: Two participant code review

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

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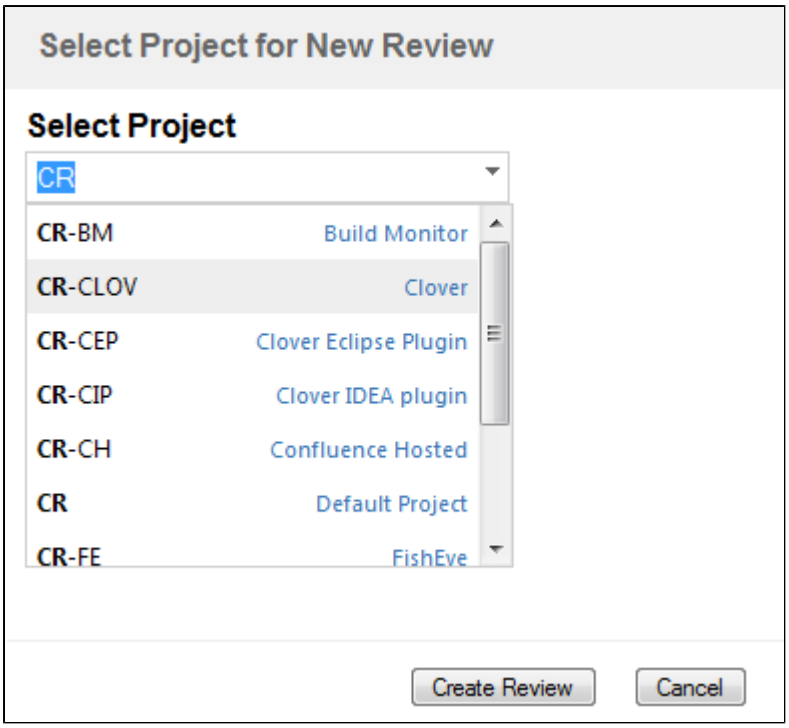
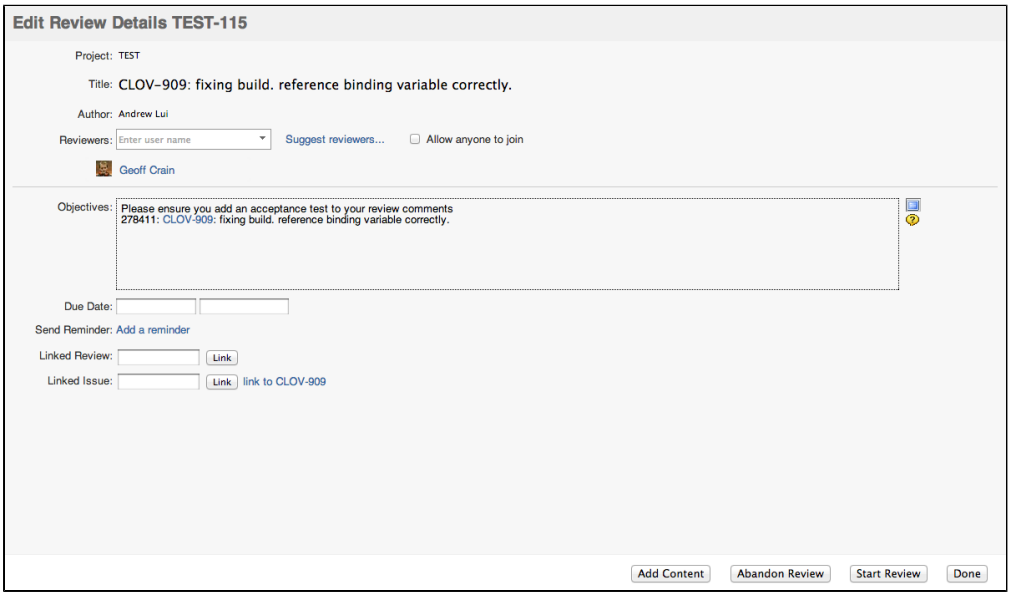


In the Select Project dialogue, you are prompted to choose a project for this review from the drop-down list. Once the selection is made, the author clicks **Create Review**. The Edit Review Details dialogue opens, where the author can create and issue the review.

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

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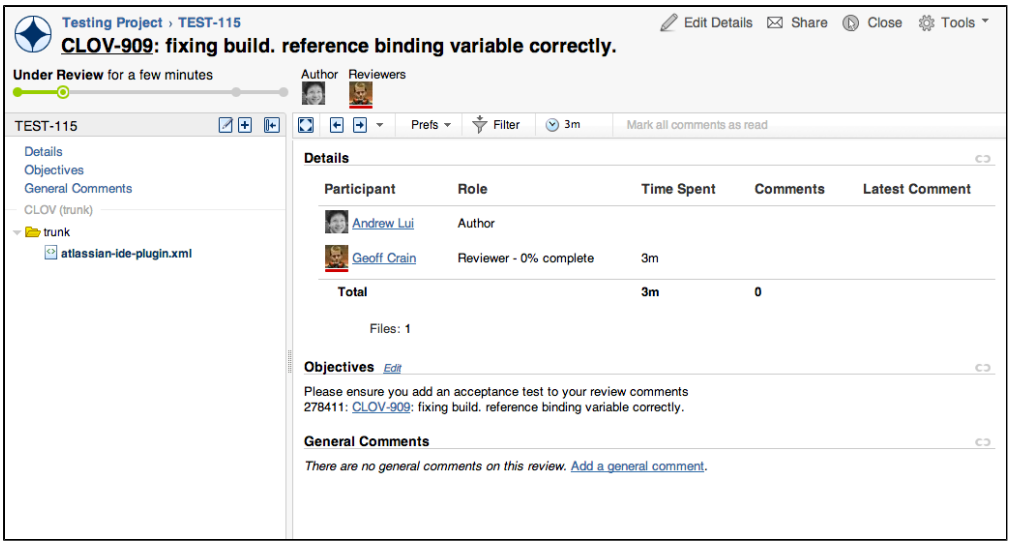


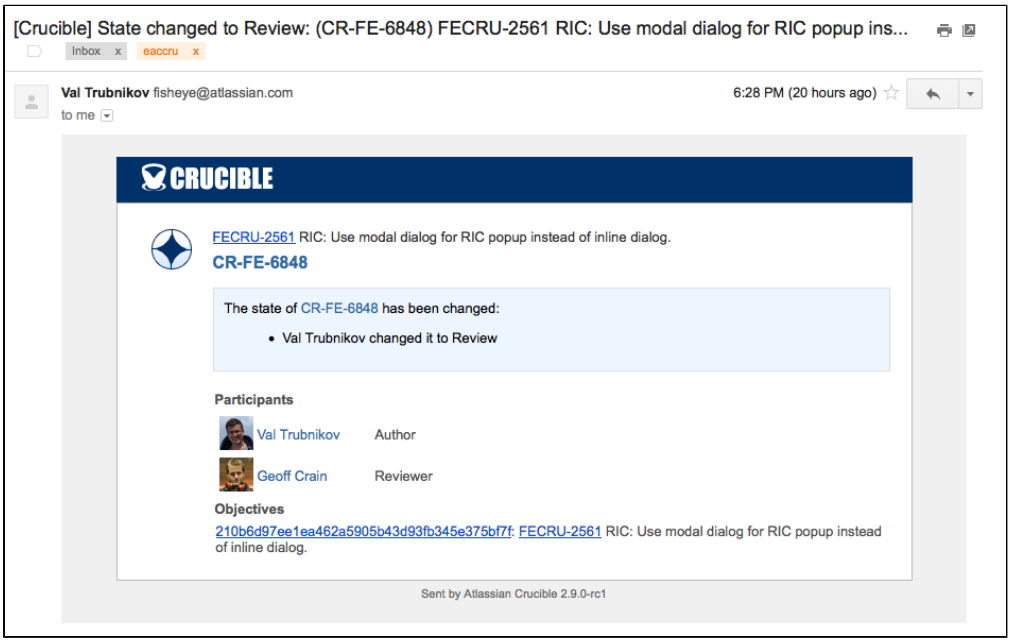
The draft review opens. In the draft stage, the author can check the contents of the review files to ensure they are correct and put in any notes for reviewers as comments. During the draft phase, no notification emails are sent out to reviewers. Once the author is finished with the draft phase, he clicks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

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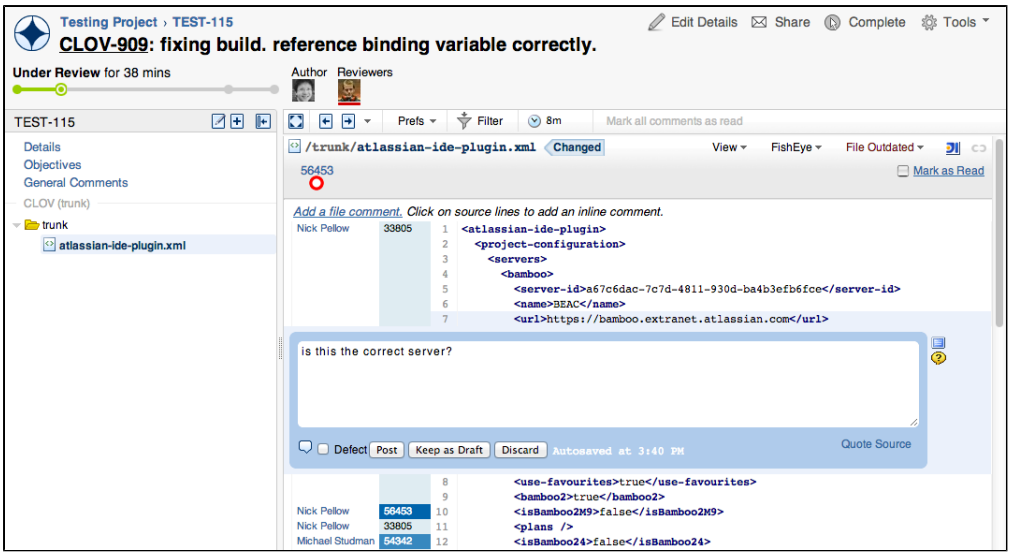


The Review screen displays the source files that are under review. The reviewer clicks file names to see the code to be reviewed. As the reviewer reads the changes, they can add comments:

- 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.

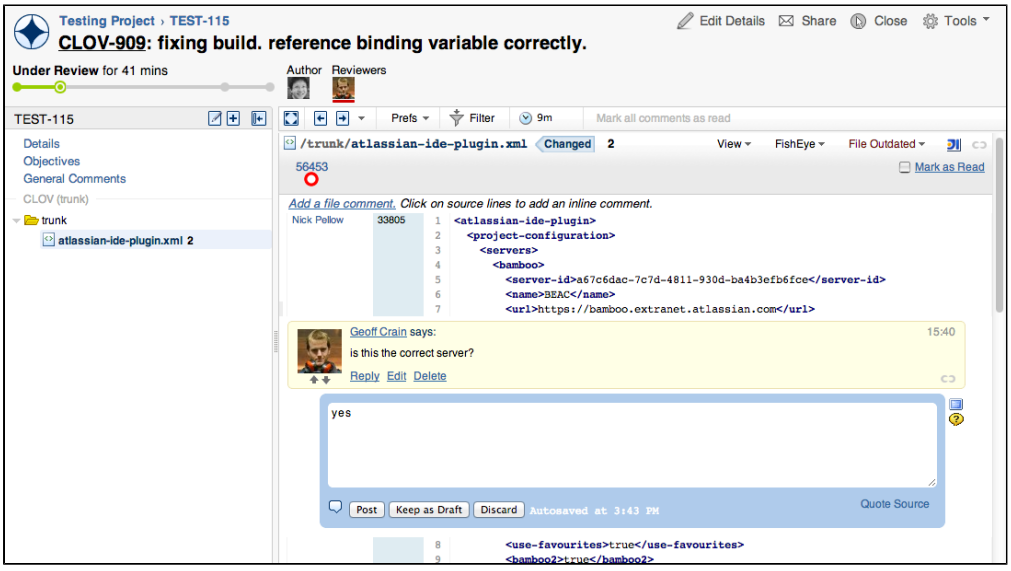
When the reviewer has finished their code review work, they click **Complete**.

> 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



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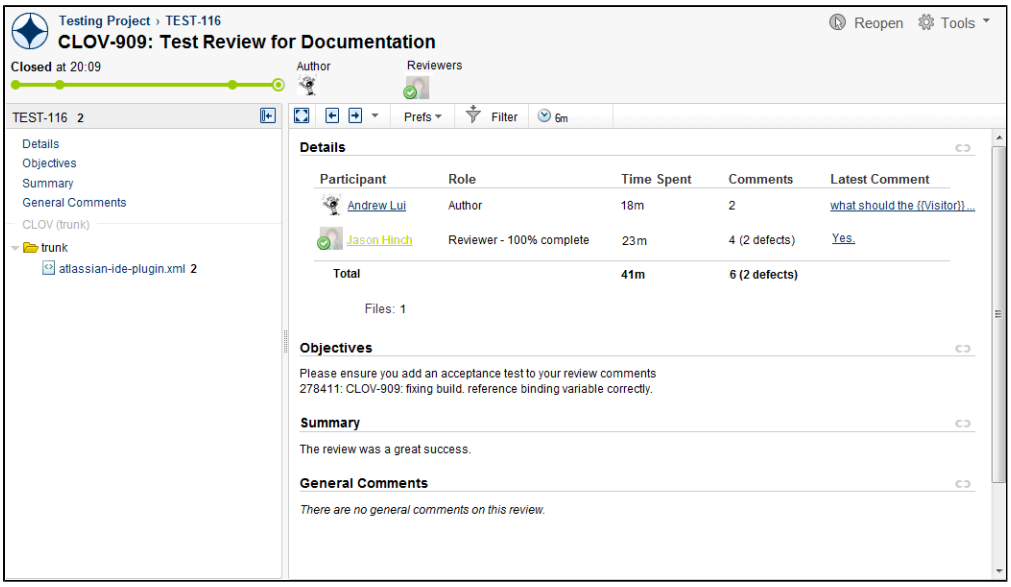
4. The author closes the review

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 staus of existing reviewers. Click **E dit 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-One Reviews (Agile Pair)
- One-to-Many Reviews Without a Moderator (Agile Team)
- Formal Group Reviews (CMM Team)

Lightweight Code Commenting with Crucible (individual)

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

   Diagram: Workflow for Lightweight Code Commenting

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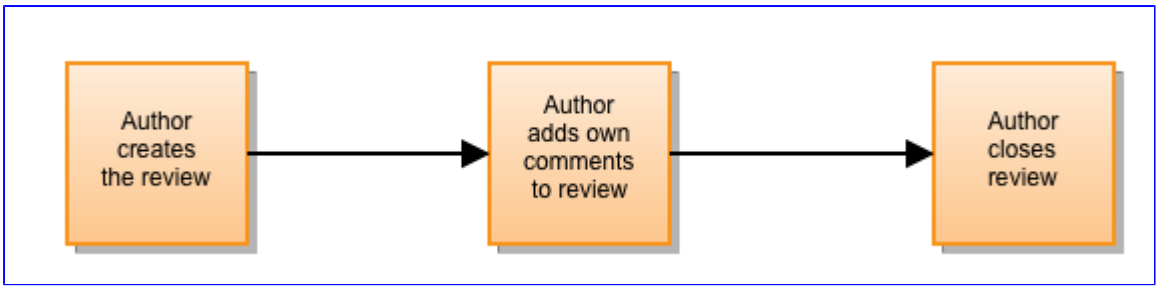
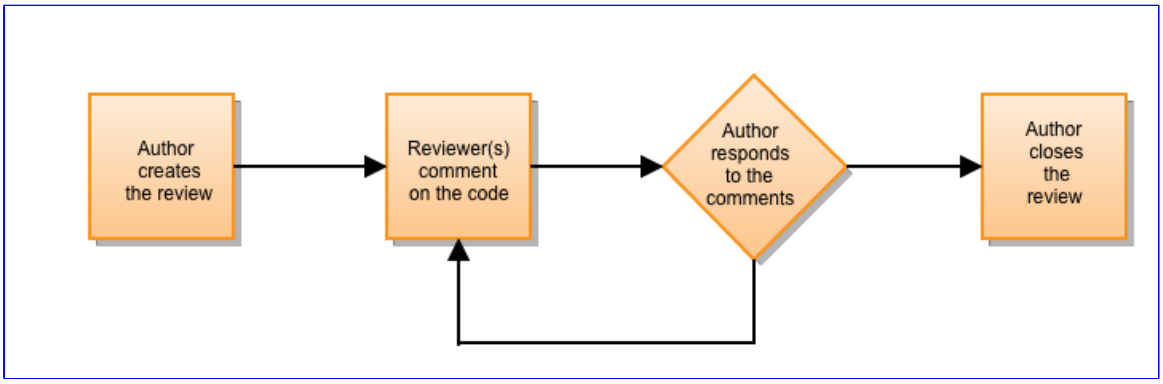


One-to-One Reviews (Agile Pair)

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

Diagram: Workflow for One-to-One Reviews

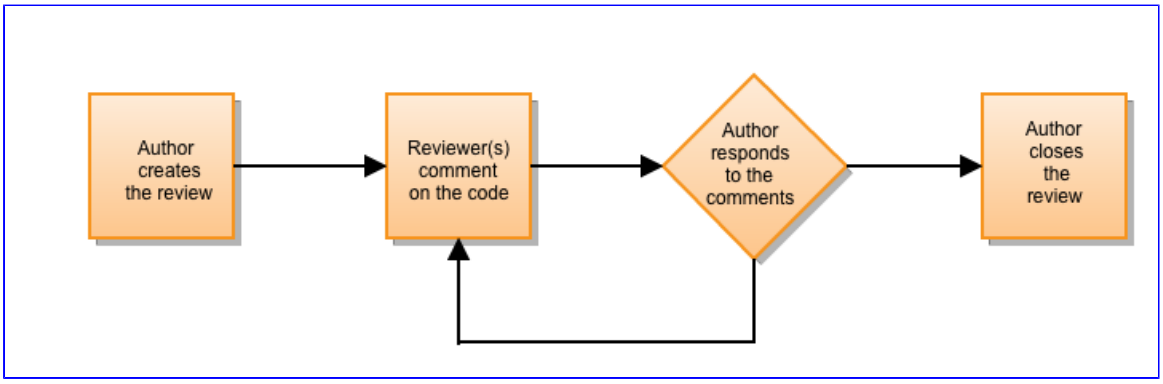


For more information on one-to-one reviews, see The Crucible workflow. The workflow process in Crucible is covered in detail within this document.

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

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

Diagram: Workflow for One-to-Many Reviews



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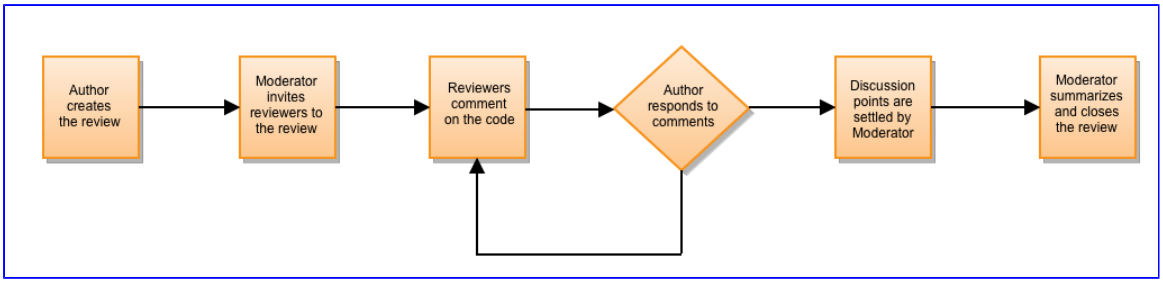
Formal Group Reviews (CMM Team)

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

Diagram: Workflow for Formal Group Reviews



To see a simple example of how to use Crucible with two people, see The Crucible workflow.

Roles and Status Classifications

This page explains the roles and status classifications in Crucible.

- Roles in Crucible
  - Author
  - Creator/Moderator
  - Reviewer
  - User
- Status Classifications in Crucible
  - Draft
  - Under Review
  - Summarized
  - Closed
  - Abandoned

Roles in Crucible

Author

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

Creator/Moderator

The *creator* is the person who creates the review. In most cases this person will also act as moderator. The *mod erator* 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 au thor, 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.

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User

A *user* is a person using Crucible.

Status Classifications in Crucible

Draft

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

Under Review

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

Summarized

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

Closed

Closed reviews are complete.

Abandoned

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

See also the *Glossary of terms* used in Crucible.

Creating a review

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

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

- Add content to the review
- Choose reviewers
- Perform the review
- Summarise and close the review

You can also create Crucible reviews in these other ways:

- Creating a review from FishEye
- Creating a review from JIRA
- Creating a review from a URL
- Creating a Snippet Review
- Creating reviews from the command line

Note that only people with the 'Create' permission can create a review.

On this page:

- Create a new review
- Add content to the review
- Edit the review details
- Considerations when creating reviews

Create a new review

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

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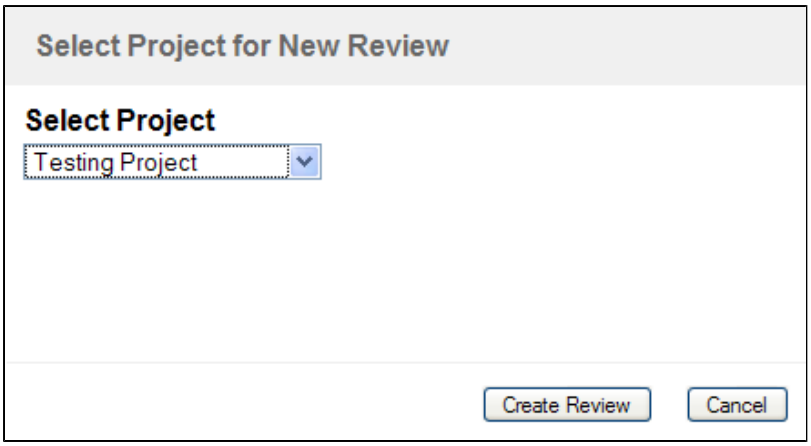


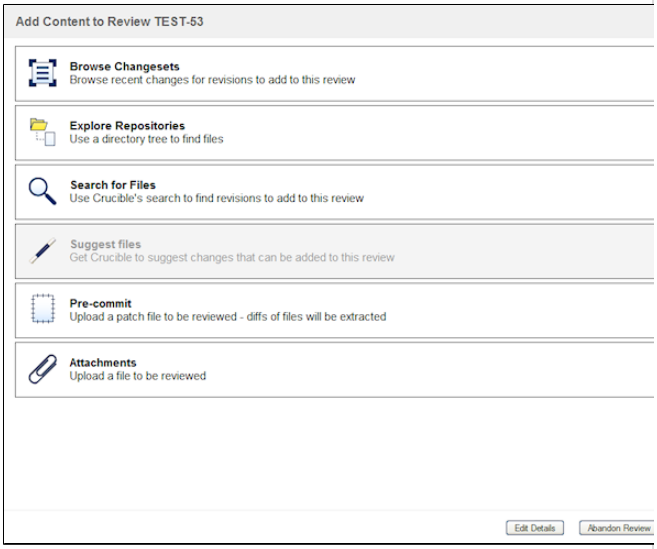
Add content to the review

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

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

See Adding content to the review for more details.

Browse Changesets – browse for SCM changesets
Explore Repositories – browse for SCM files
Search for Files – or changesets, in the SCM
Suggest Files – get Crucible to suggest files
Pre-commit – upload patch files
Attachments – upload any type of file



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

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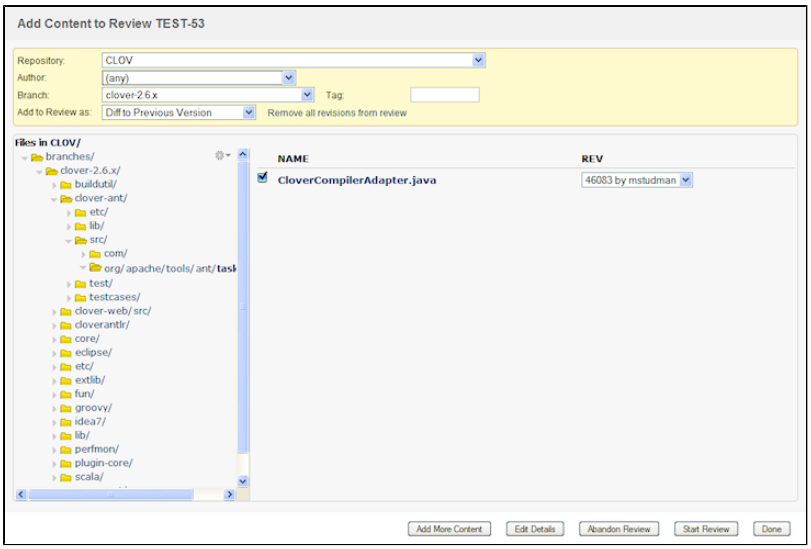
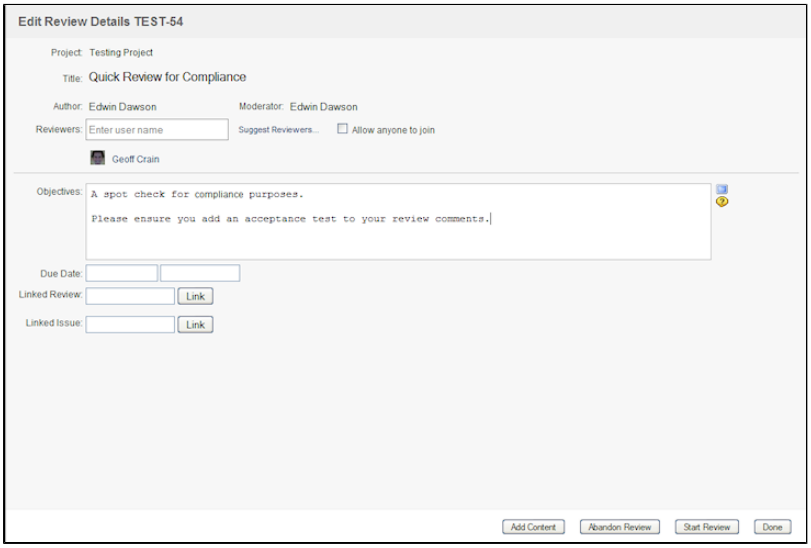


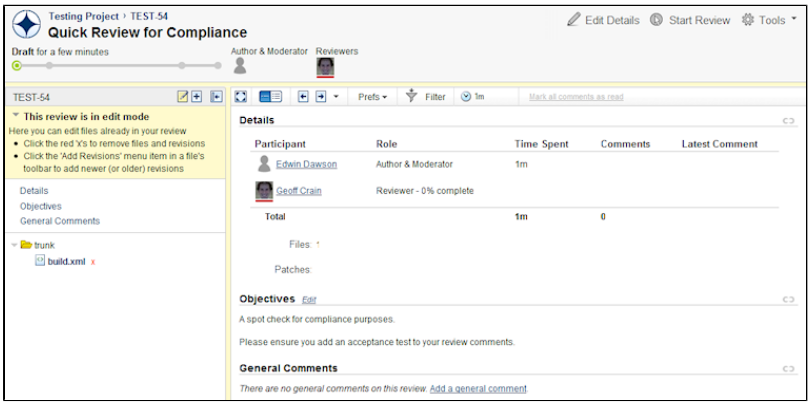
Click **Edit Details** to move to the next stage.

Edit the review details

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



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



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

When the reviewers have performed their reviews, you can summarise and close the review.

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Considerations when creating reviews

Review effectiveness

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

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

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

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

Crucible performance

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

To prevent a user from accidentally causing this, Crucible has a limit on the review content size when creating reviews. The limit is 800 file revisions.

Adding an entire directory's contents to a Crucible review

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

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

Creating a review from FishEye

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

On this page:

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

1. Open the FishEye Source view

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

To navigate to the Source view for a file:

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

2. Create the review

To create the review:

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

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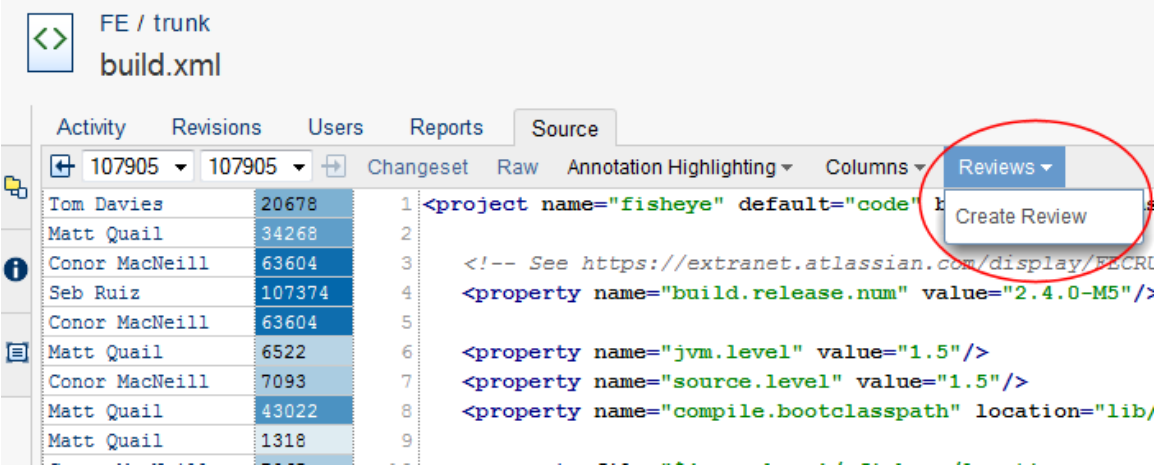
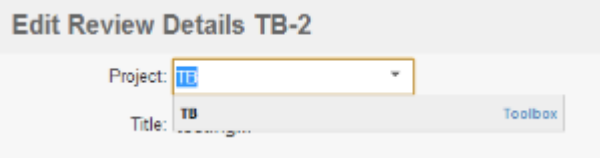


3. Choose a project

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



Creating a review from JIRA

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

JIRA must be integrated with *both* FishEye and Crucible before you can do this. See Linking Crucible to JIRA for information on how to set this up.

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

See also Creating JIRA issues from the review.

To create a review from within JIRA:

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

The next step is to add reviewers.

Screenshot: Adding a review from within JIRA

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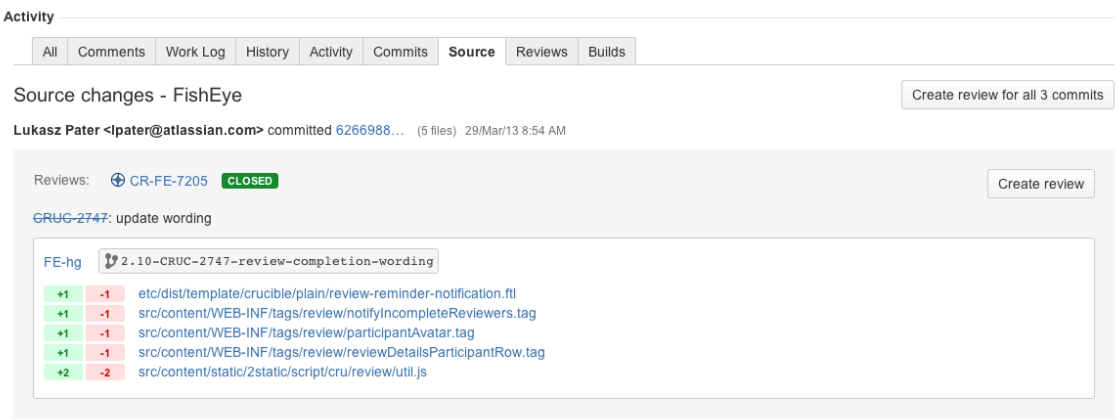

Creating a review from a URL

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.

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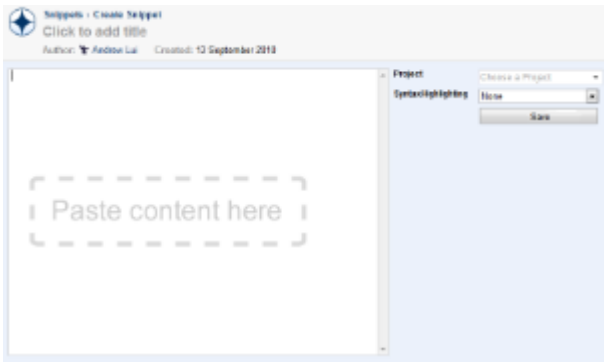
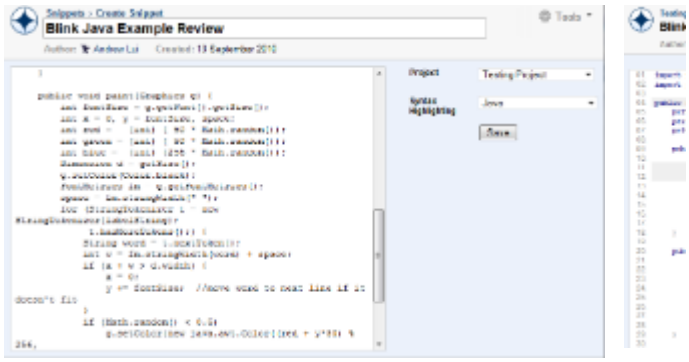
3. Enter details for the snippet review:
    - Paste the code into the panel, where indicated.
    - Click on **Click to add title** near the top to enter a title for your review. If you don't specify a title, one will be automatically created for you.
    - Select a project from **Project**.
    - Select 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.

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On this page:

- Installing the Review CLI tool
- Python
- Using the Review CLI tool

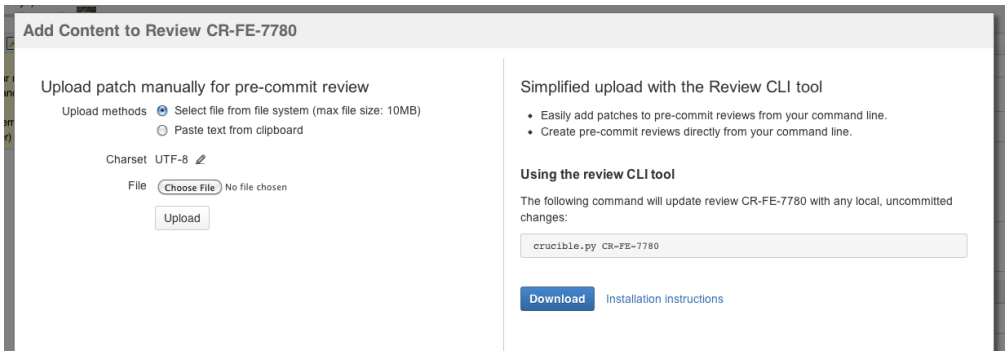
Related pages:

- Creating a review
- Adding content to the review

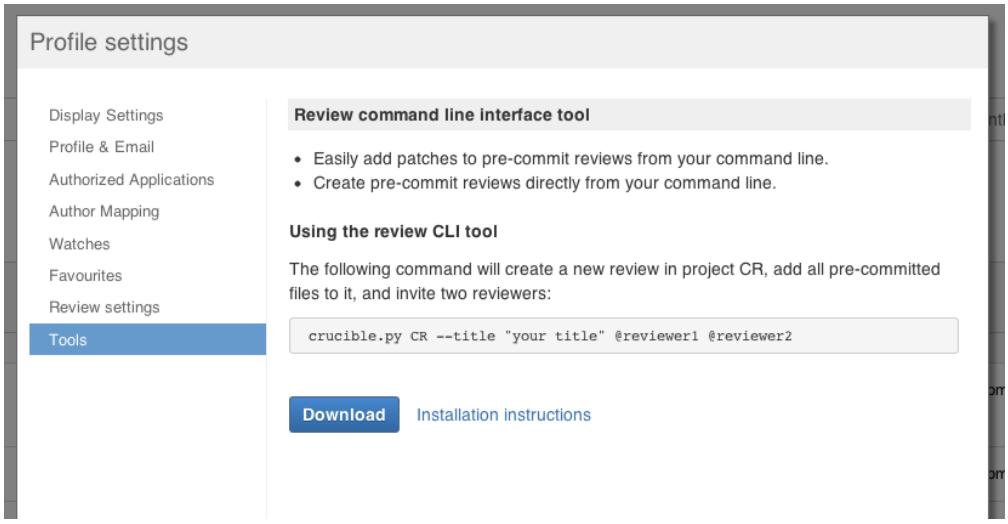
Installing the Review CLI tool

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

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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	`crucible.py --help`	Displays the help with descriptions of all the valid commandline arguments
Create a pre-commit review interactively	`crucible.py`	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	`crucible.py -m "the review title" CR-FE`	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	`crucible.py CR-FE @matt @joe --moderator ted`	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	`crucible.py -r repo1`	Creates a pre-commit review interactively, trying to anchor the patch to the given repository
Add a patch to a review	`crucible.py CR-FE-1204`	Gets the patch from the current SCM and adds it to the review CR-FE-1204
Create a review from diff output	`hg diff | crucible.py`	Creates a pre-commit review interactively, taking the output of the first command as a patch
Create a review from a diff file	`crucible.py -f file.diff`	Creates a pre-commit review interactively, taking the output of the patch from the given file

Adding content to the review

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

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

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reviewed. In Crucible, you need to add patch files to a pre-commit review.

Related pages:

- Creating a review
- Iterative reviews
- Choosing reviewers
- Performing the review

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

On this page:

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

General procedure

To add content to a review:

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

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

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

Selecting changesets for review

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

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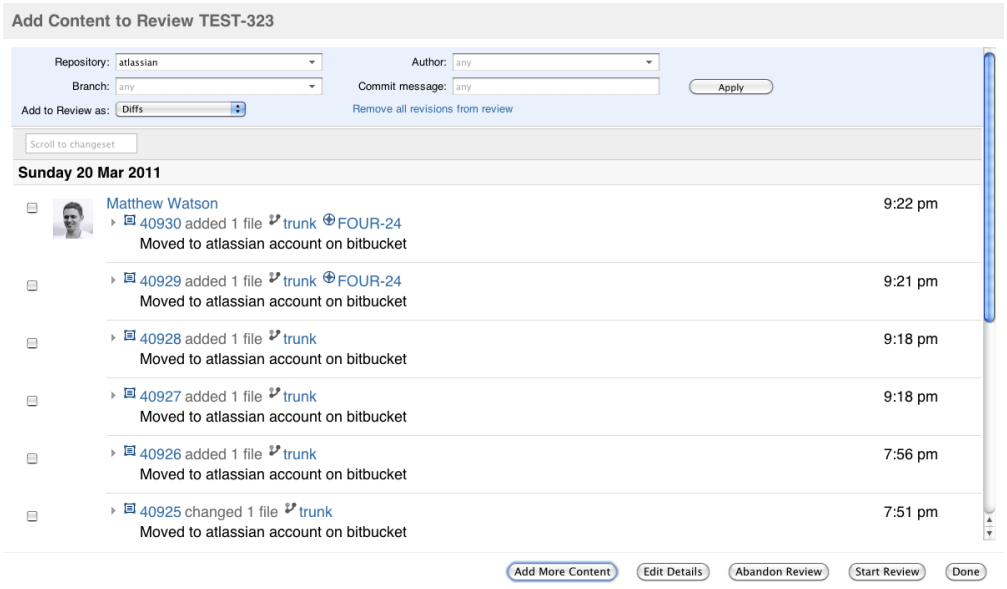
By default, Crucible presents a list of the author's changesets in reverse chronological order. You can see other changesets by changing the options at the top of the dialog:

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

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

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



Selecting repository files for review

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

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

Note that:

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

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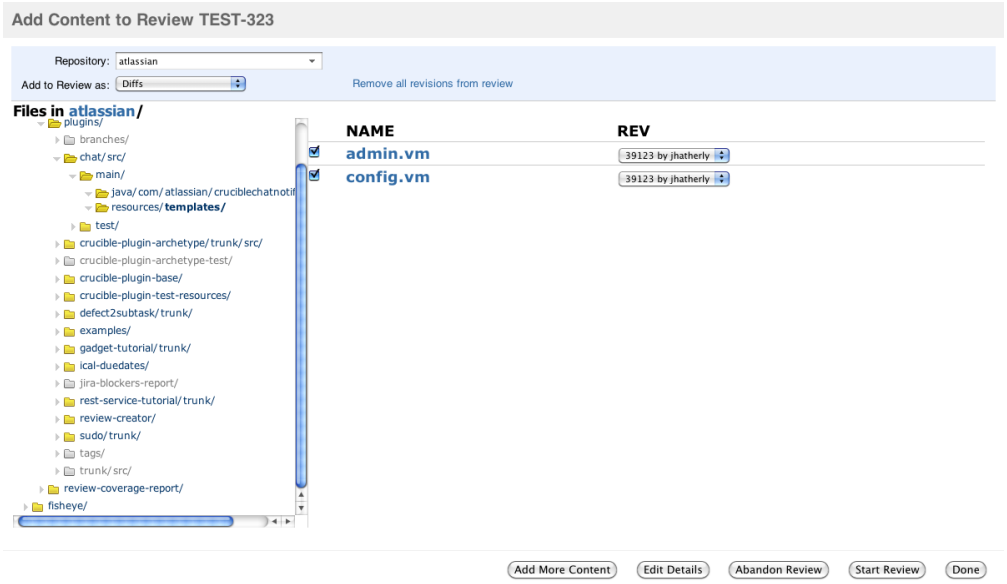
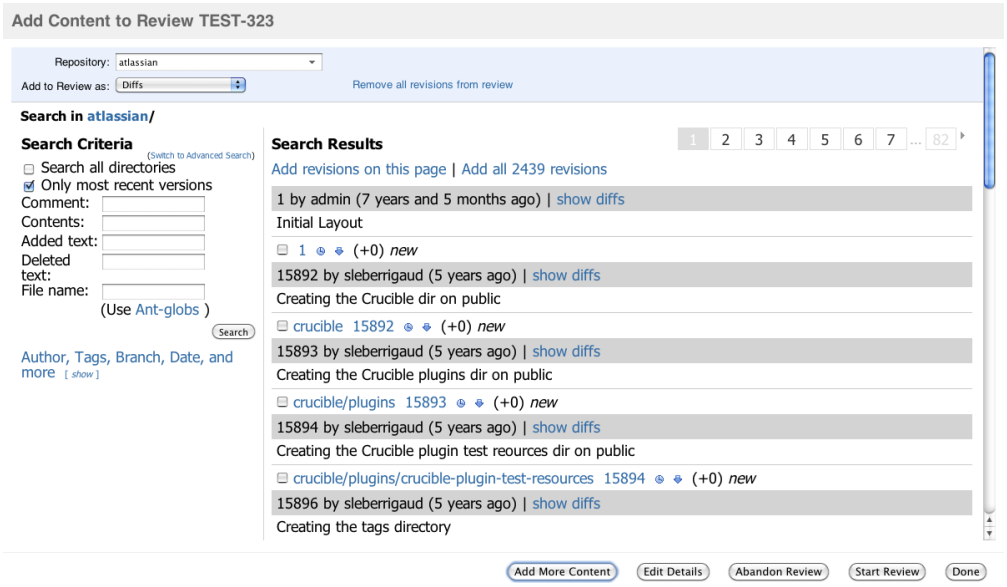


Searching for files to review

Click **Search for Files** on the 'Add Content to Review' dialog to search for files to add to your review.
⚠ Search is only available when using FishEye with Crucible.

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

Read more about searching your repositories in the FishEye documentation.



Adding patch files to a pre-commit review

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

Choose an upload method:

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

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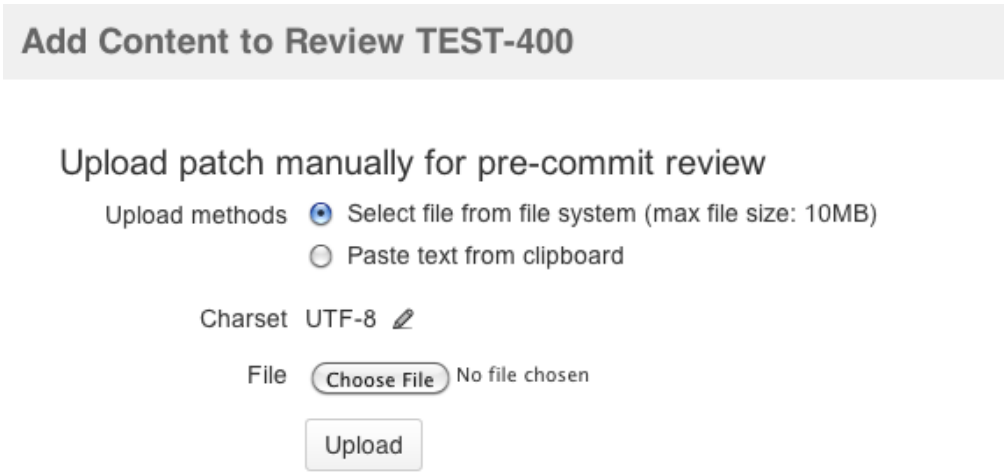
For more information see Creating patch files for pre-commit reviews.



Patch anchoring

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

See Using Crucible patch anchoring for more information.

Adding attachments to a review

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

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

Charset	Click to choose the character set being used. UTF-8 is the default.
Choose File	Browse for a file that you want to add to the review.
Upload	Browse for a file that you want to use as the base of a diff with a previously attached file.

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

Choosing the way files are added to the review

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

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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.

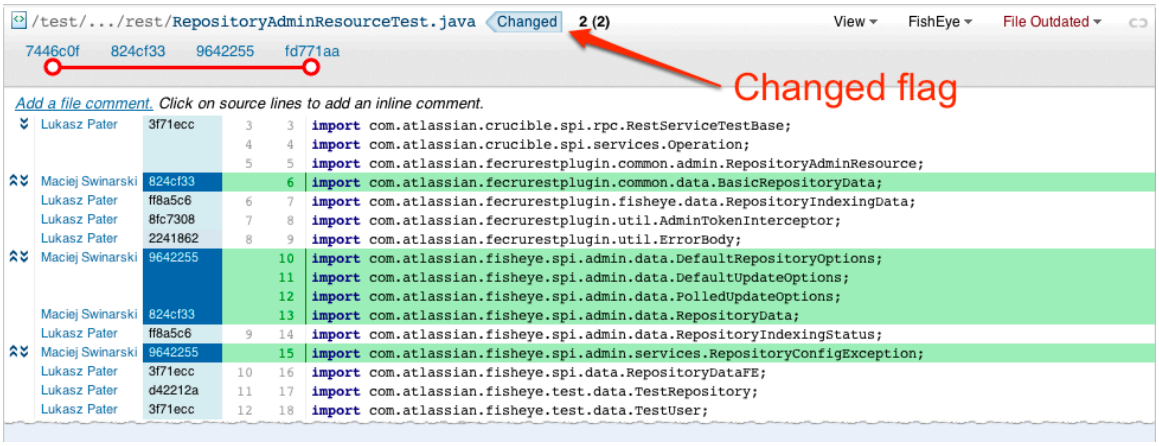
Iterative reviews allow your team to discuss changing code in the context of a single review. This lets the reviewers see all the related changes together, and to more easily keep track of comments and defects.

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

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and perform iterative pre-commit reviews.

See Creating patch files for pre-commit reviews.

Initial patch upload

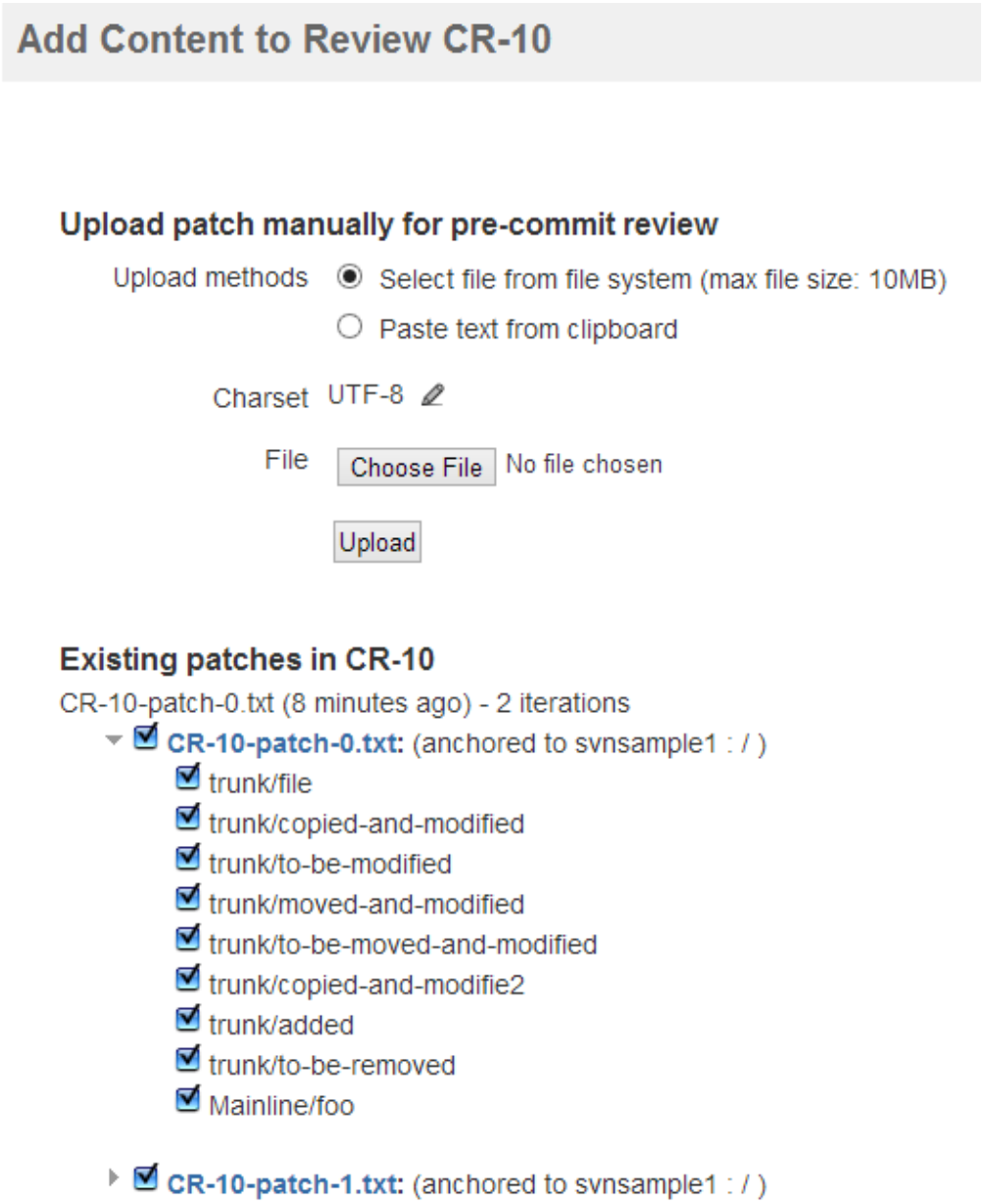
When uploading the initial patch for a review, Crucible must be able to anchor the patch to a repository if you subsequently want to upload patch iterations. If Crucible is unable to anchor the patch to a repository, you will only be able to upload the patches as separate files.

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.



Viewing diffs

Crucible allows the reviewer to see the different revisions of a file within the same review. The 'slider' in the file

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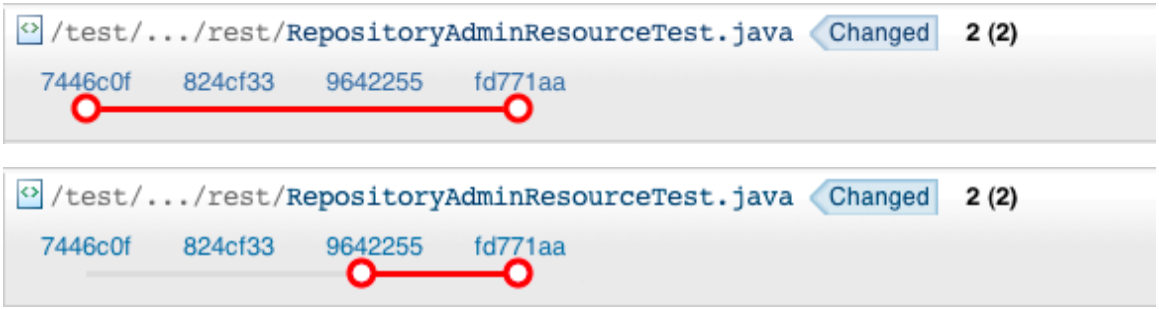
view allows you to interactively select which revisions are compared in the displayed diff, and to see the full source content. Comments are connected to, and displayed with, a specific revision. This allows you to review every change that has occurred on a code file over a given range of commits, and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

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



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

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

Creating patch files for pre-commit reviews

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

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

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

You can create the patch file from your local repository:

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

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

As an enhancement, Crucible's patch anchoring adds context:

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

On this page:

Creating a patch file from IntelliJ IDEA 7.0

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**:

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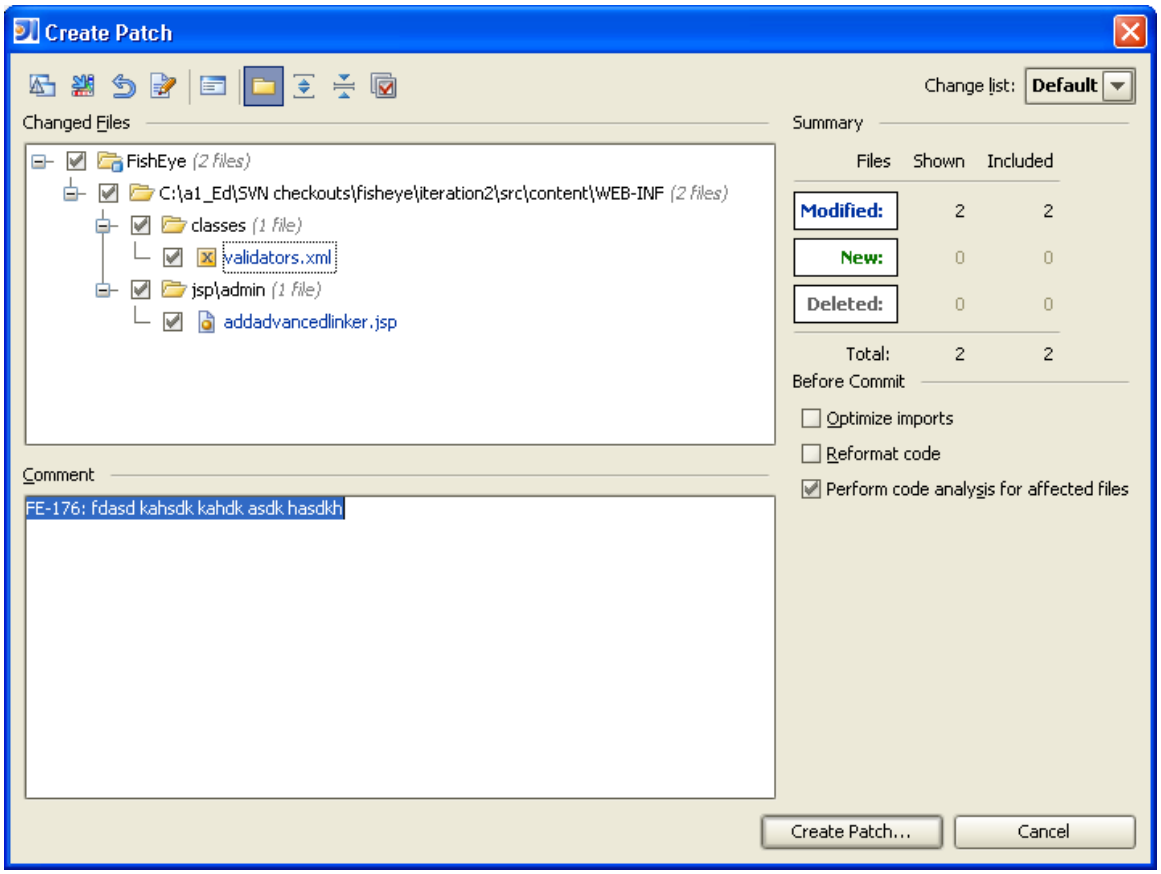
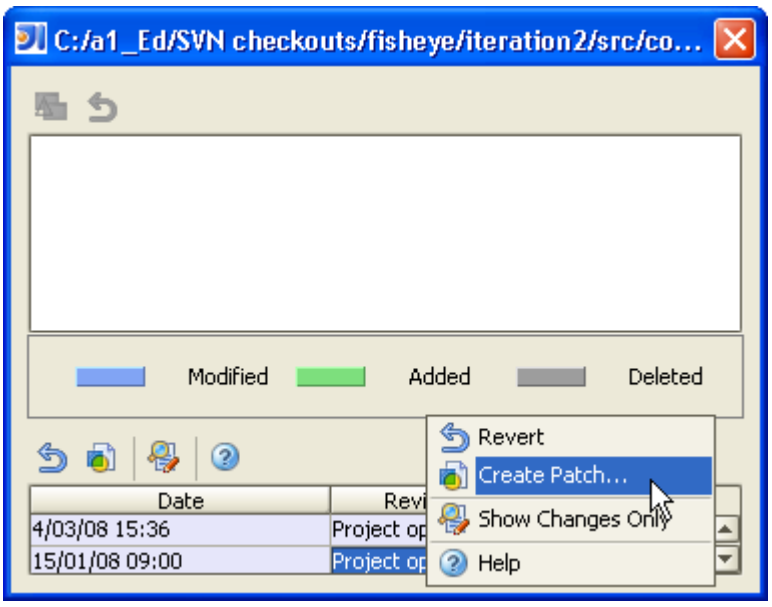


3. Click **Create Patch**, choose a location to save the patch file to, and click **OK**.

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**.

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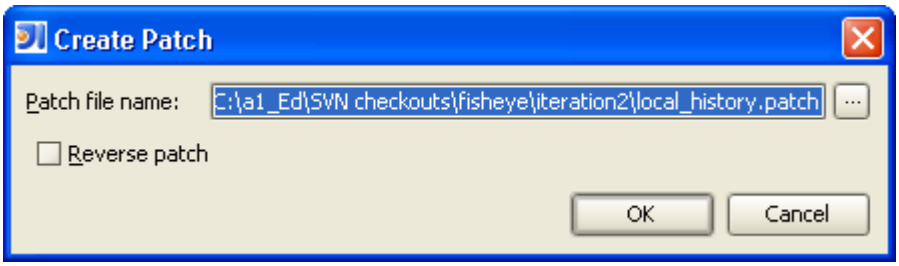
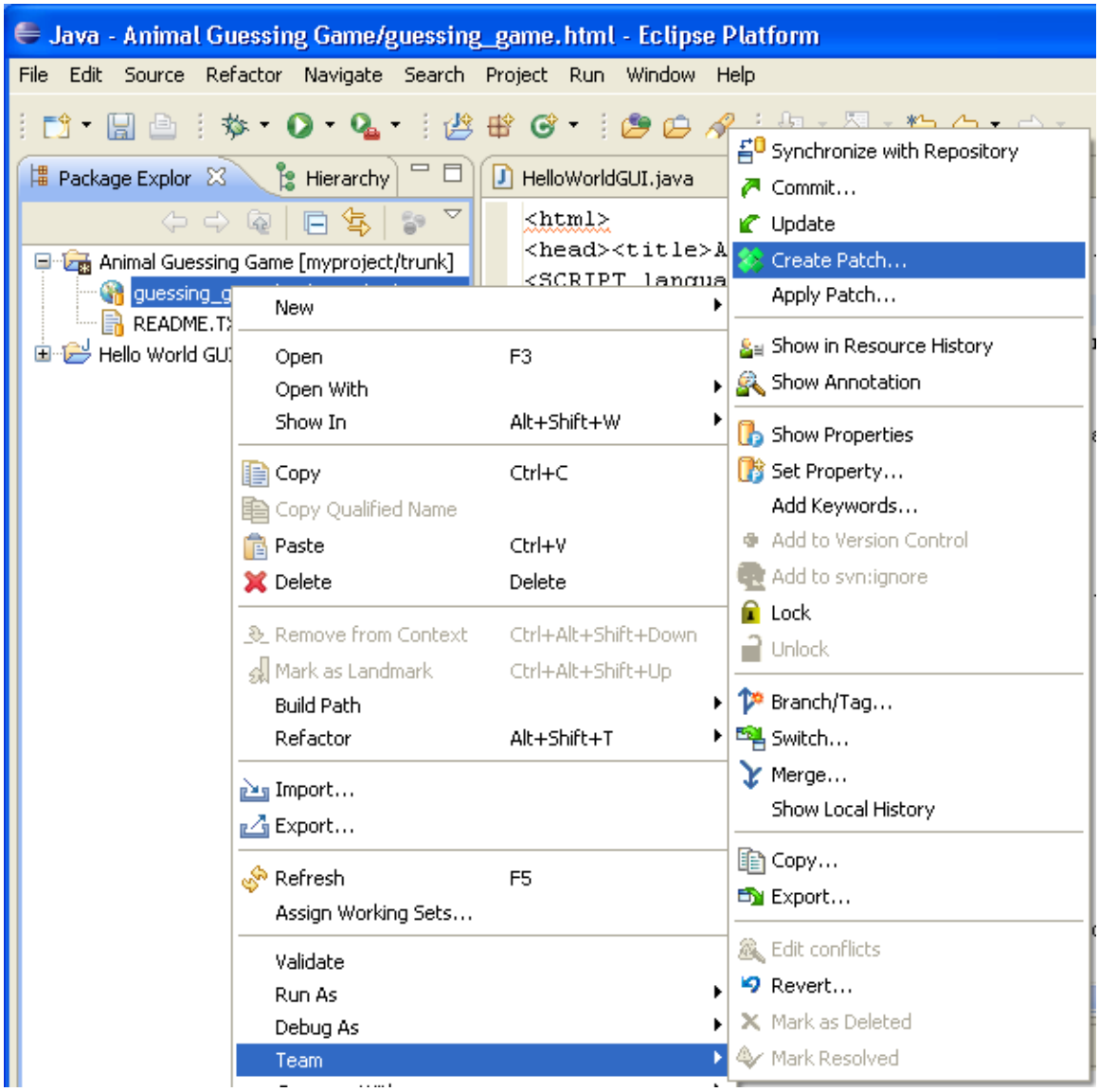


3. In the Create Patch dialog, choose a location for the patch file and a file name, then click **OK**.

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):

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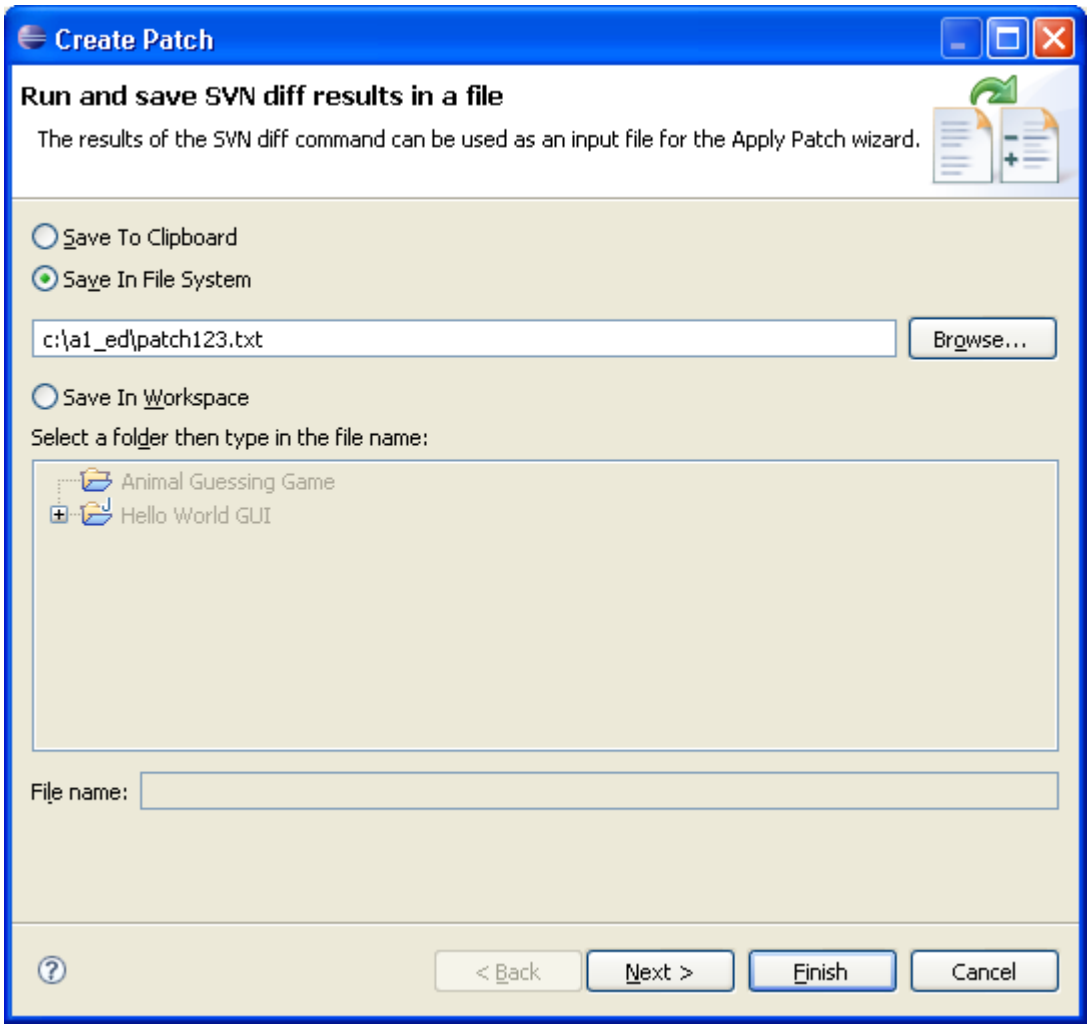

Creating a patch file from the command line

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

SCM	Command	Notes
CVS	`cvs diff -Nu > patch.txt`	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.
	`cvs diff -N -U 10000 > patch.txt`	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.

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SVN	`svn diff > patch.txt`	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. ⚠ `svn diff` does not print any information about files copied in the workspace.
	`svn diff --diff-cmd diff -x "-U 10000" > patch.txt`	Creates a patch file that shows all code in the file. • The built-in diff feature in `svn diff` does not support specifying lines of context, so you must tell Subversion to use an external diff command. • The second `diff` 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 `/usr/bin/diff`. • On the Windows platform, you may need a Unix-like emulator such as Cygwin, and install the optional diff command for that.
Perforce	`p4 diff -dcu > patch.txt`	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. The `-dcu` 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).

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	`diff -u /dev/null path_to_added_file >> patch.txt`	Example of using GNU `diff` to append files individually to the patch in UNIX. Since Perforce diffs do not include added and deleted files, you should use `p4 opened` to find such files. Replace `path_to_added_file` with the actual path of your added file. You can follow a similar procedure with deleted files using `p4 print` to extract the previous version of the file.
	⚠ 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.	
Mercurial	`hg diff > patch.txt`	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. If you use Git-style diffs (--git), the revision information will not be provided. This means that we cannot anchor the patch to a FishEye repository.
Git	`git diff > patch.txt`	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.

Using Crucible patch anchoring to automatically add full context

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

To use patch anchoring:

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

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

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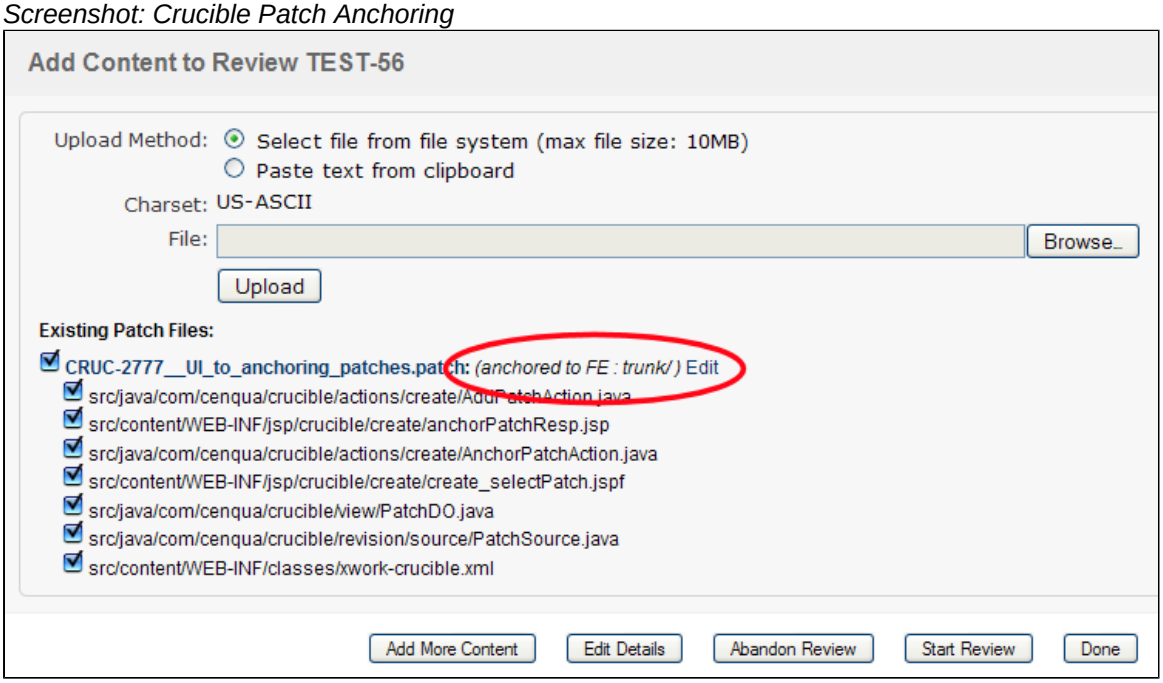
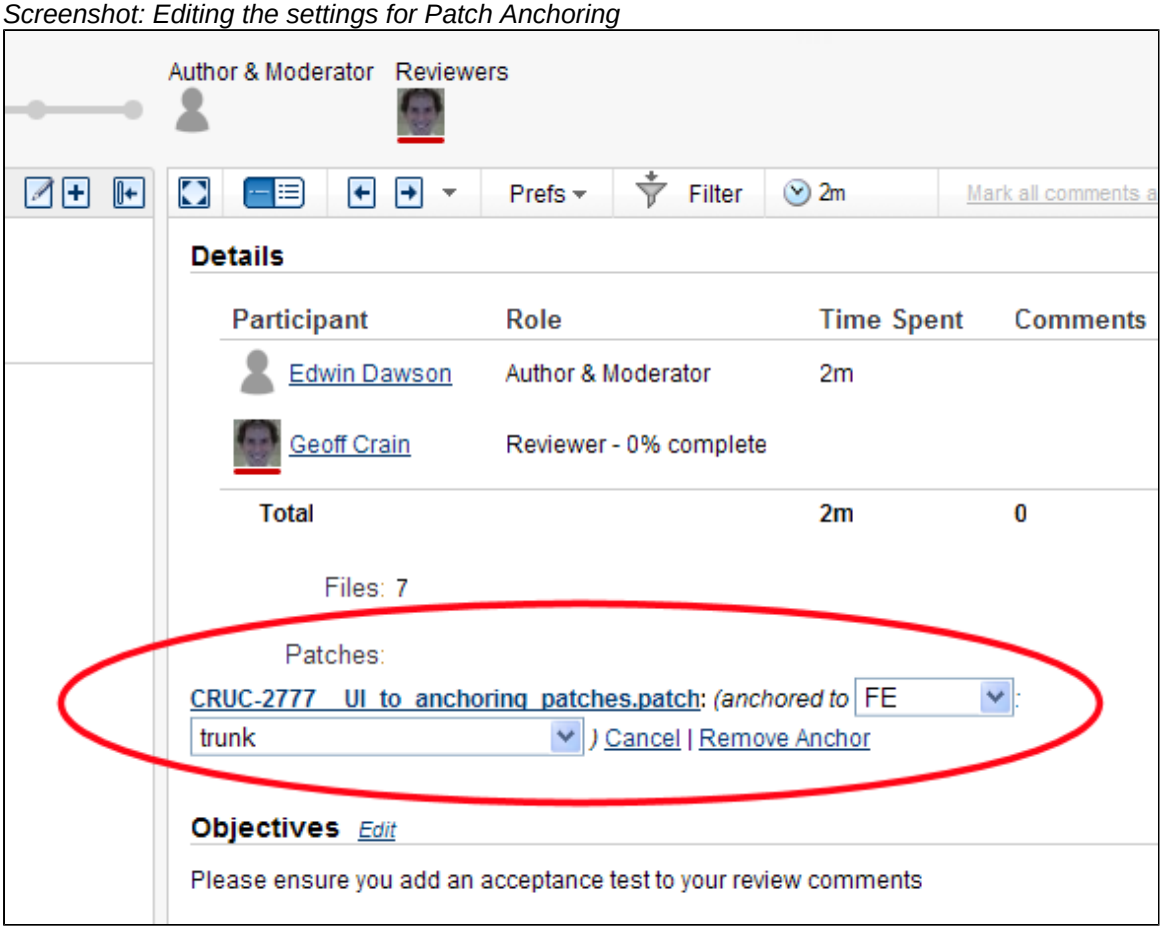
- You can click **Edit** to change the anchoring, by choosing a new match or removing the anchor. You can change the anchoring later, after the review is live.
- Start the review. When viewing the diffs, you will be able to choose more than three lines of context from the **View** menu.

Screenshot: Crucible Patch Anchoring



Screenshot: Editing the settings for Patch Anchoring



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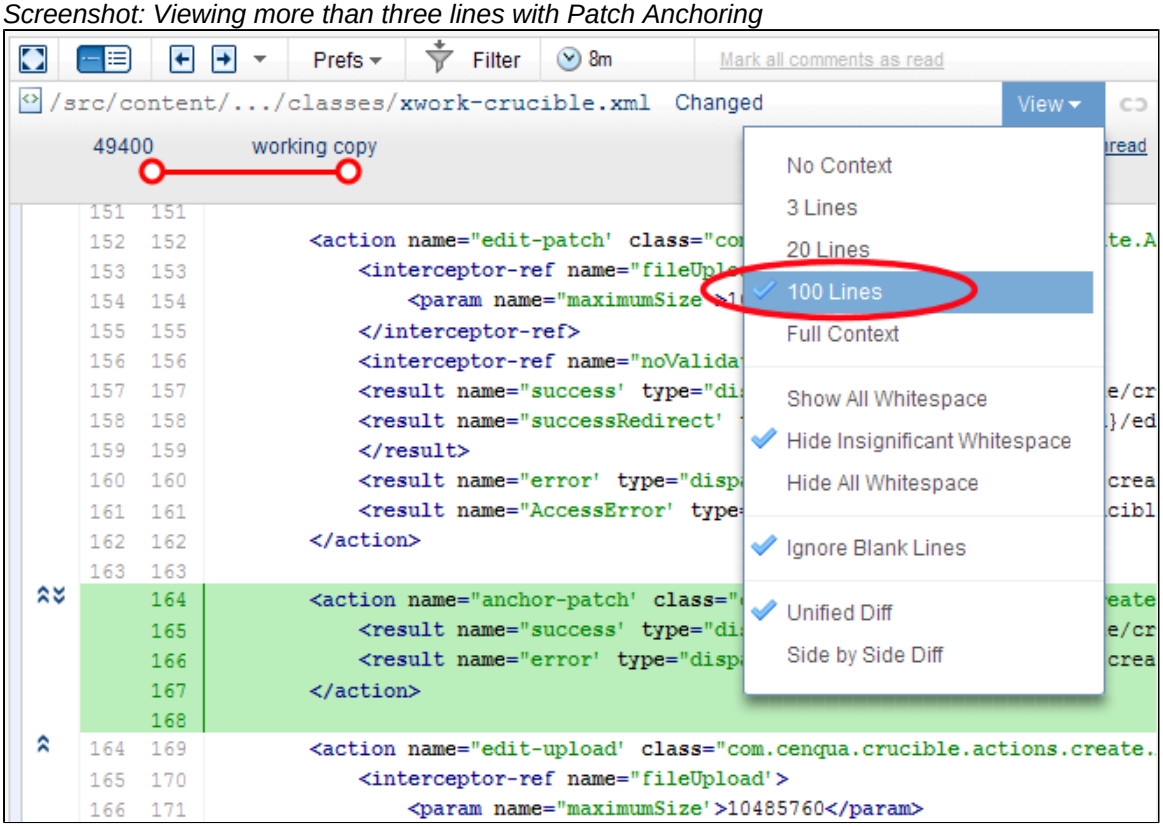
Screenshot: Viewing more than three lines with Patch Anchoring



Choosing reviewers

This page explains how to add reviewers to a new review, after it has been created.
See Creating a review for information about creating reviews.

On this page:

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

Entering basic information

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

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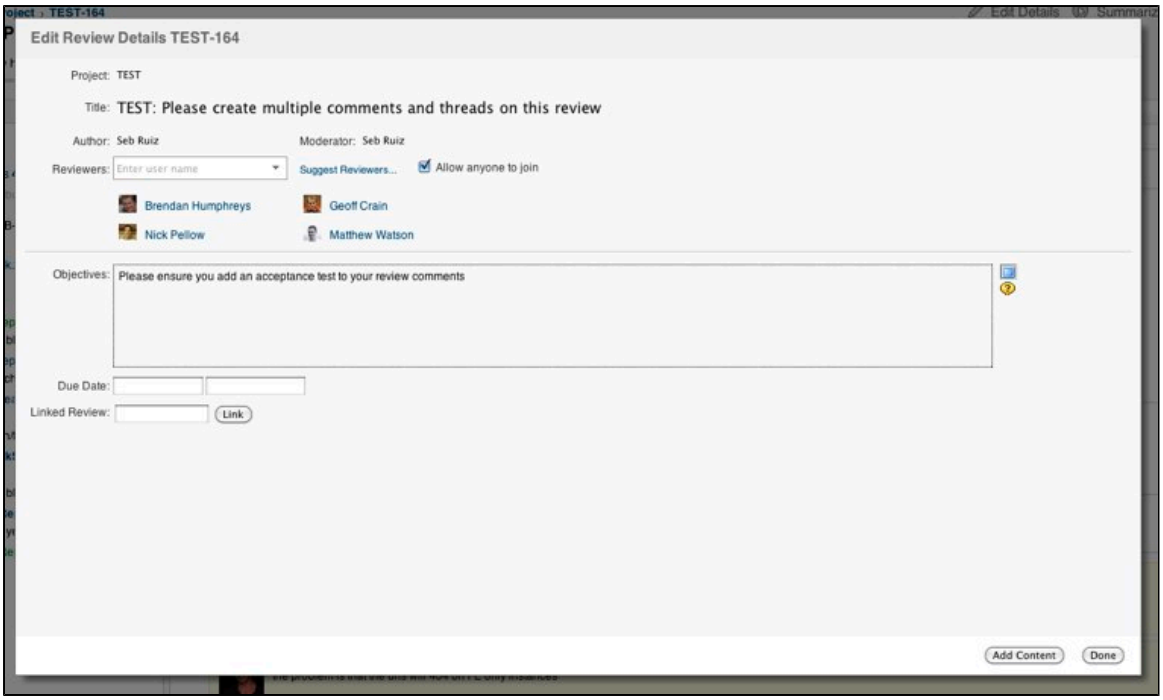

In the Edit Review dialog, the author enters information needed for the review. This includes entering a title and description for the review, a due date and the key for a related JIRA issue (if any). The project, moderator and author are pre-selected (for this example, the author should select himself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

You must also select reviewers.

Adding and removing reviewers

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

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

Adding users to a review

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

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

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

Suggested reviewers

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

Inviting unregistered users to the review

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

⚠ There are two prerequisites:

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

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To invite an external user to a review:

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

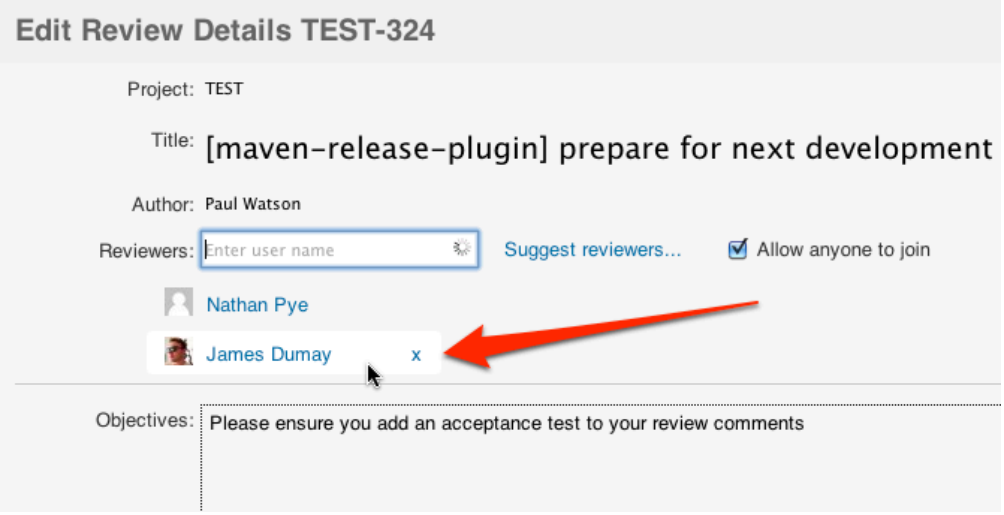
You can enter multiple addresses separated by commas, allowing you to paste in a list of email addresses from your favourite email application.

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

Removing reviewers

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

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



Checking the draft and starting the review

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

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

Screenshot: A newly created Crucible review

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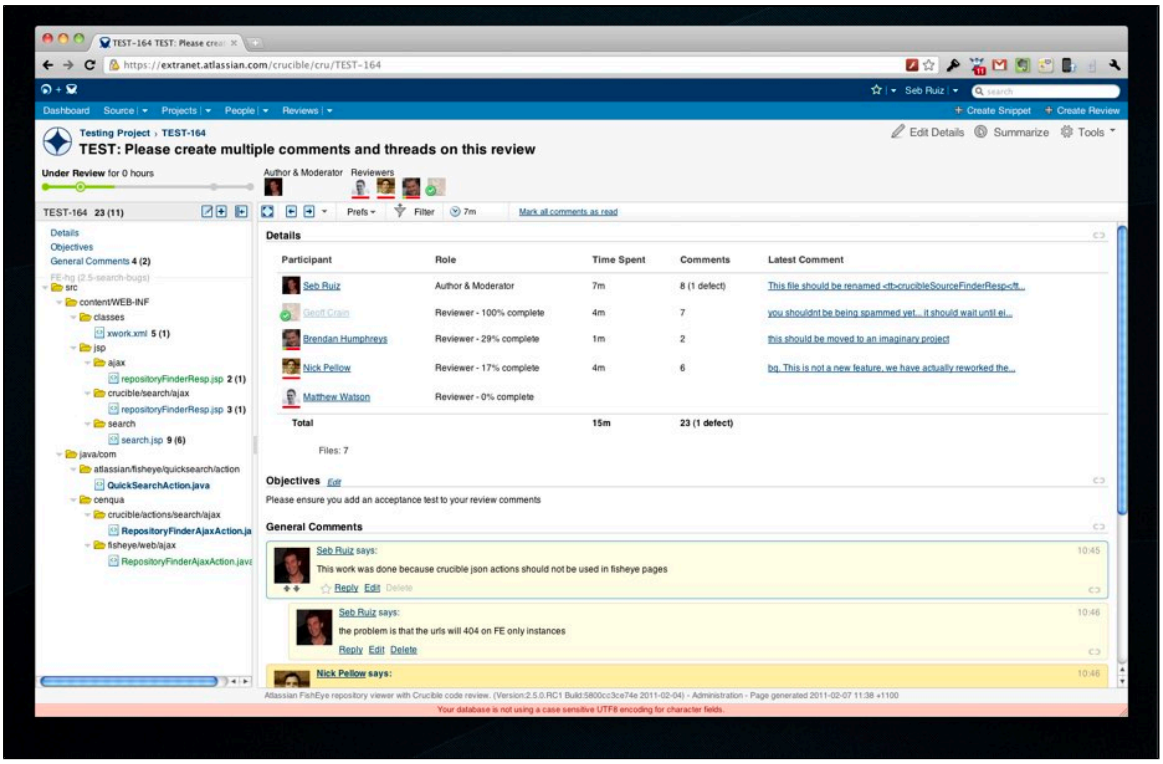

Next steps

You can now begin Performing the review.
If you have a moderator controlling your review process, you can move onto Starting a review.

Performing the review

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

On this page:

- Browse your reviews on the Dashboard
- Browse all reviews on the 'Reviews' tab
- When files change during a review
- Next steps

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

Browse your reviews on the Dashboard

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

Use the Dashboard to manage your reviews. Read the overview on filtering your view.

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

Read more about using the Dashboard.

Browse all reviews on the 'Reviews' tab

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

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

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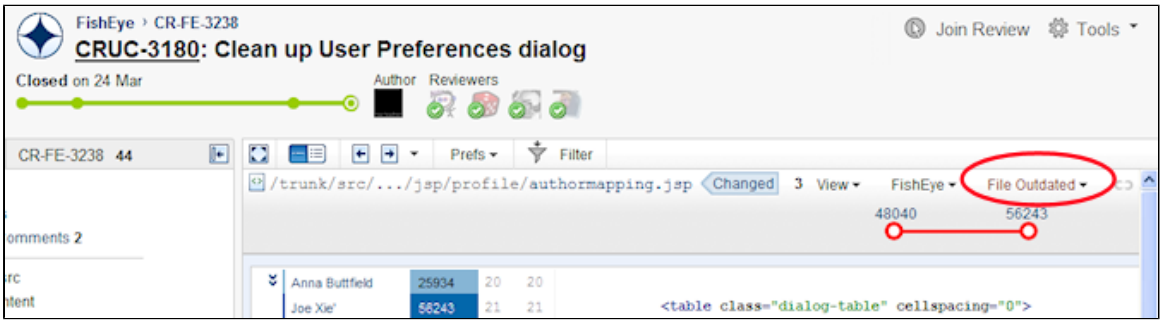
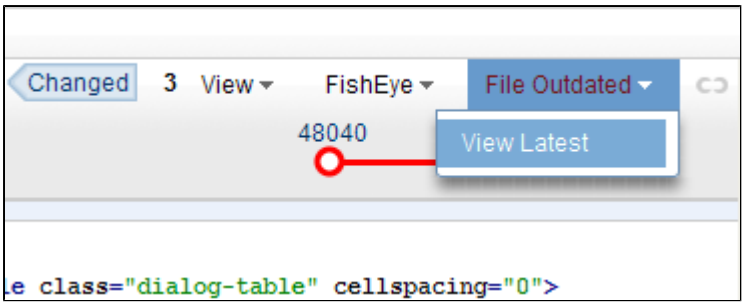
When files change during a review

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



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

Screenshot: 'File Outdated' menu



Next steps

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

Starting a review

On this page:

- Starting a review
- Editing a review once started

Starting a review

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

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

To start the review:

- If you are the moderator of the review, click **Start Review**.

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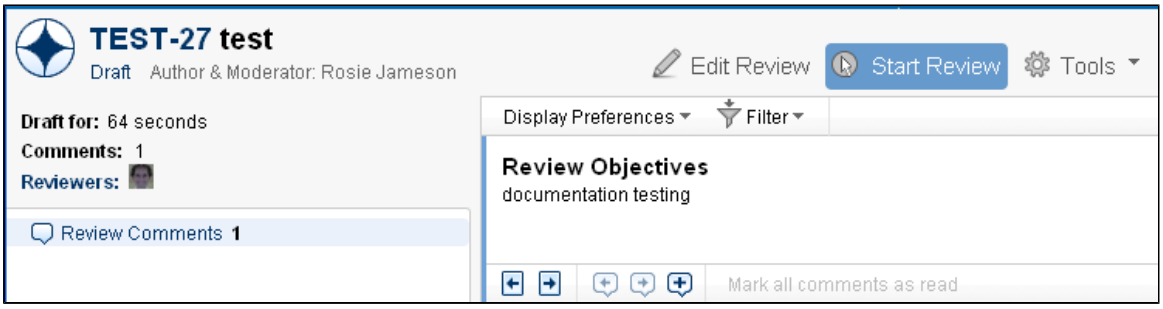
- If you are not the moderator of your review, click **Send to Moderator**. This changes the state to 'Requires Approval' and notifies the moderator. The moderator can change any aspect of the review before starting it.

Once the review has been started, the review state becomes 'Under Review'.

Screenshot: Starting a Review



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

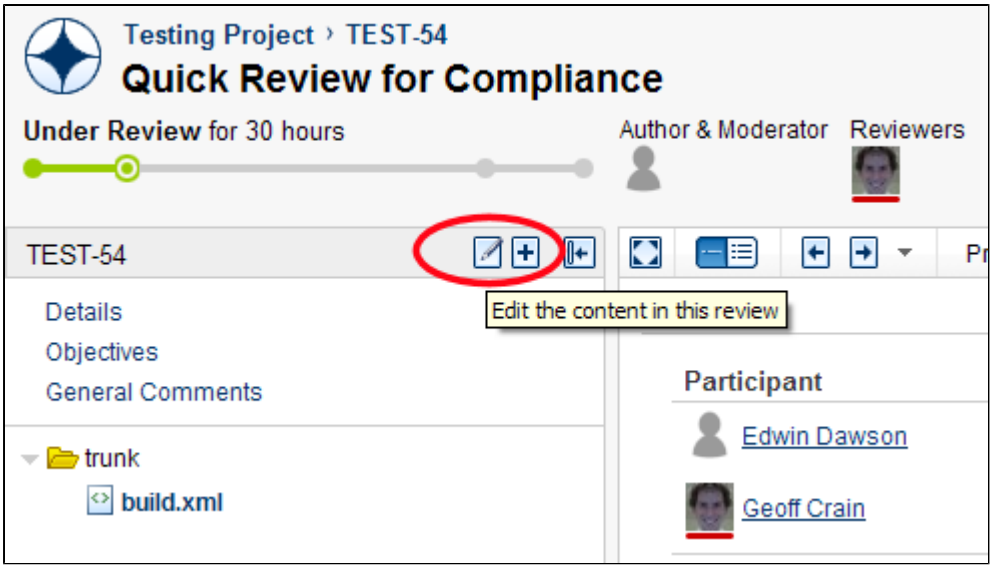
Editing a review once started

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

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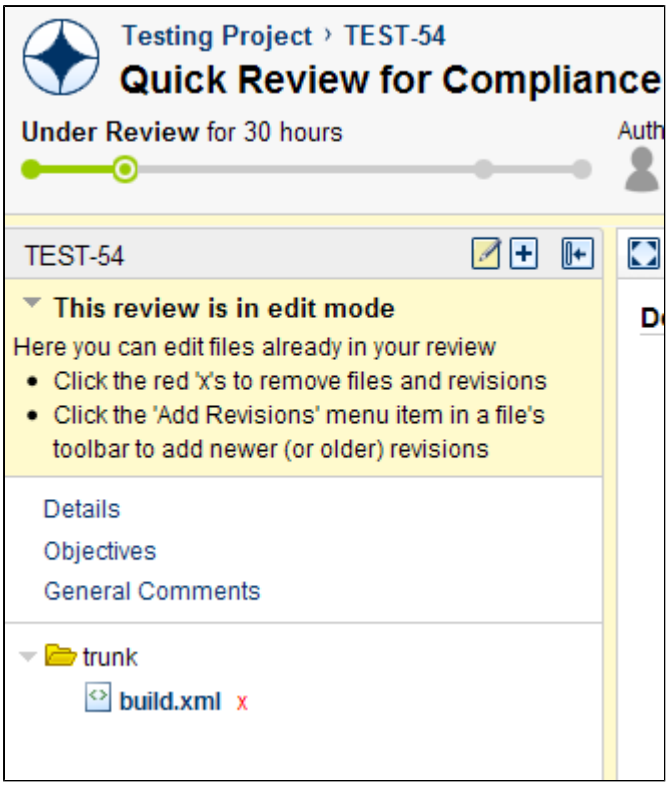

Adding comments

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

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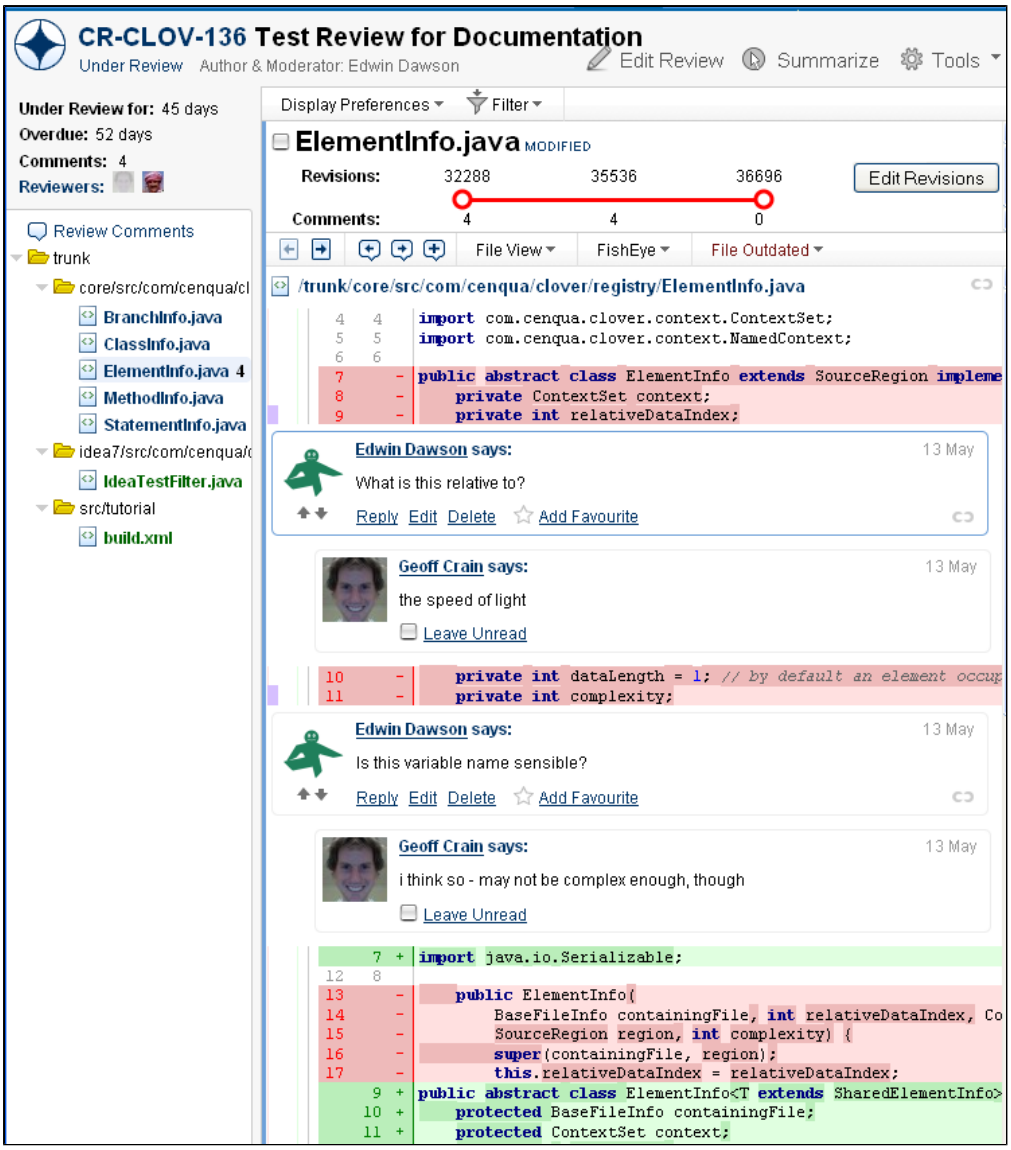
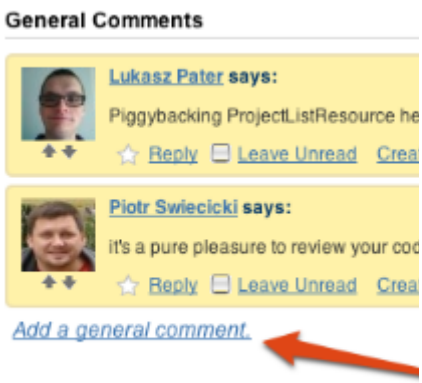


Adding comments

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').	

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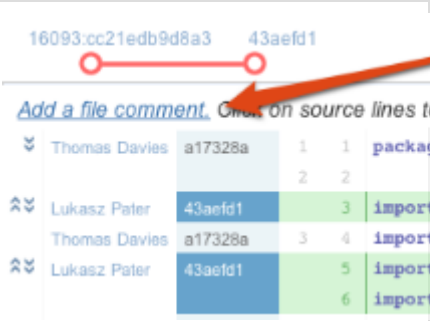
A source file under review	Click on the file in the left-hand panel, then click **Add a file comment** (just above the source code listing).	
Lines of code	Click on a line of code in the displayed source file of a review. • You can click and drag to select multiple lines, and click individual lines to 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.

Changeset discussions

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

ⓘ You need to be logged in to create changeset comments.

Adding comments to changesets

To add a comment to a changeset:

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

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

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

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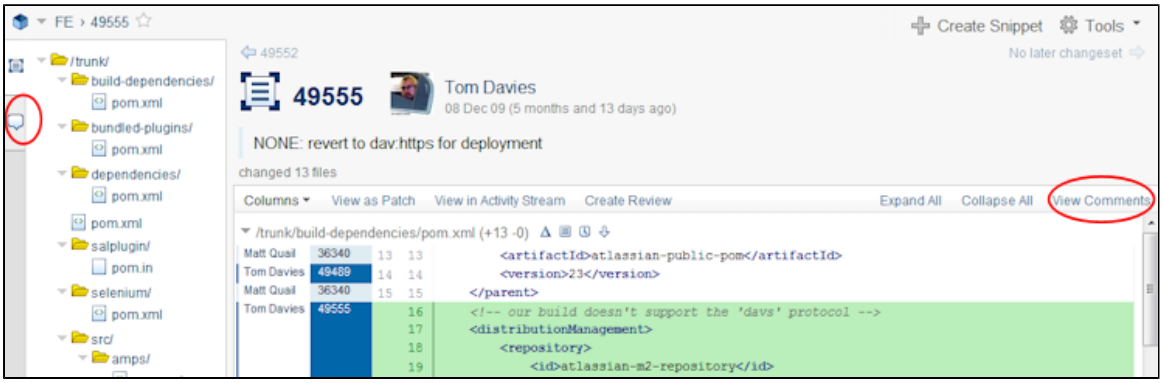
As you compose a comment, it will auto-save periodically.

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

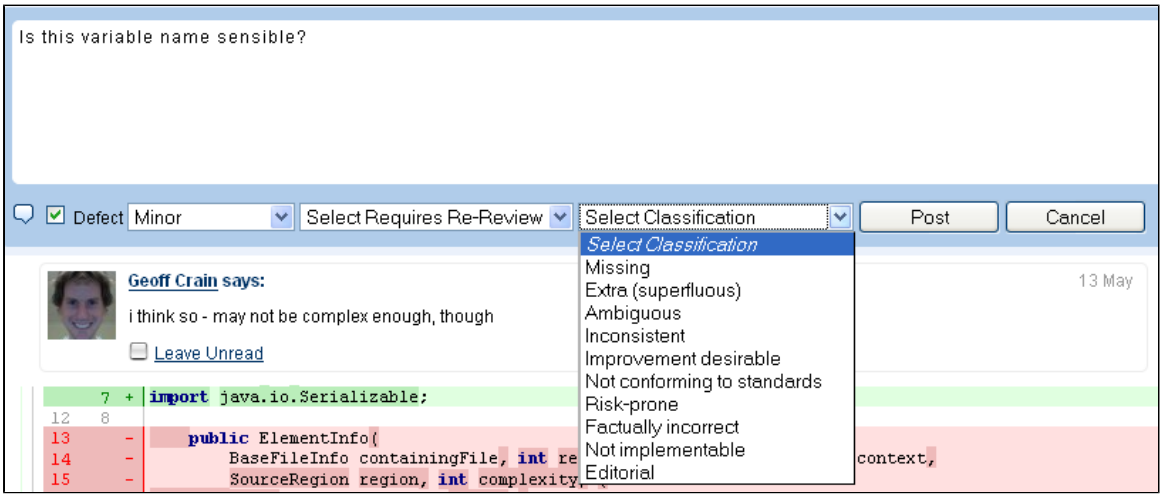
- Comments show up in the activity stream,
- The author of the changeset will get email notifications when comments are added,
- Comment authors will get email notifications when someone replies to their comments.

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.

Crucible intentionally does not mandate how defects are to be used. The Crucible administrator can customise the defect classifications.

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

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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:

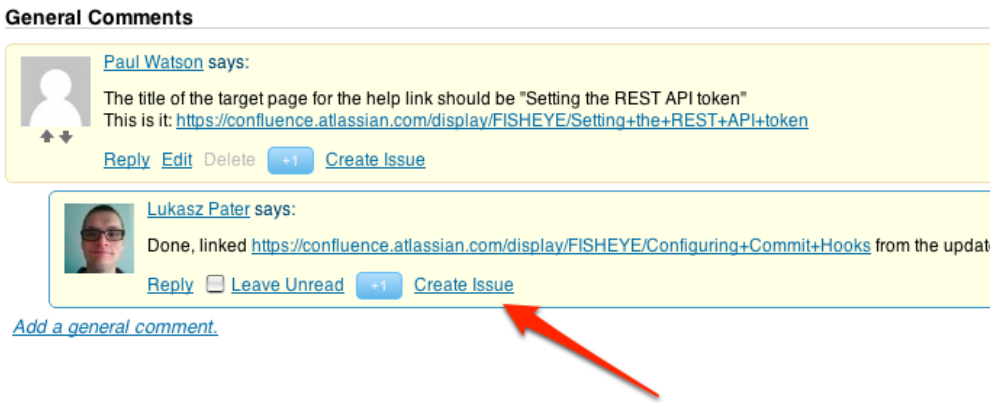
- Tracking of the status of the comment
- A faster way to pull out incidental suggestions raised in reviews as JIRA issues
- A quick link back to the comment from the JIRA issue, using Remote Issue Links.

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.

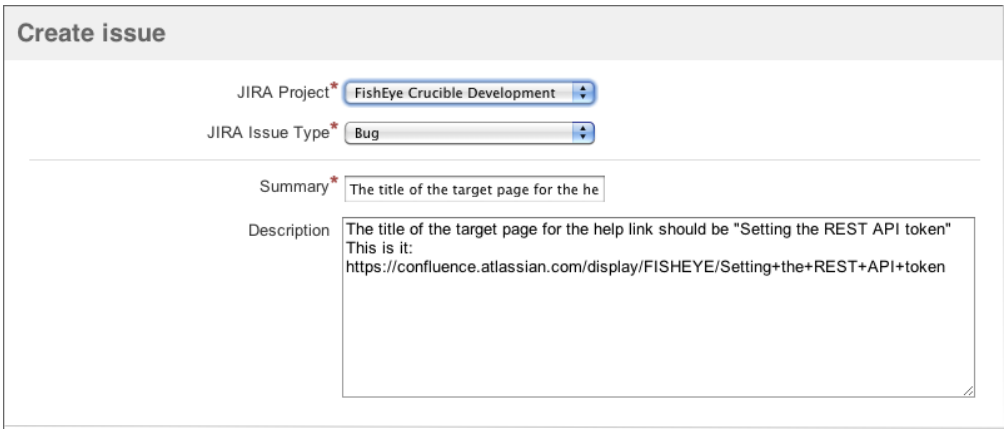
Creating a JIRA issue

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.

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See Creating a review from JIRA.

Viewing reports

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

On this page:

- Viewing the Review Blockers report
- Viewing the JIRA Blockers report

See also:

- Viewing the Review Coverage report

Viewing the Review Blockers report

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

1. Click the dropdown arrow next to the **Reviews** tab at the top of the page and select **Reports**.
2. Click **Review Blockers** (under the 'Reports' sub-tab).
    - Click a user's name to go to their 'Activity' screen.
    - Click a number in the 'To Complete' or 'To Summarize' column to go to a list of reviews for that user.

Screenshot: 'Review Blockers' Report

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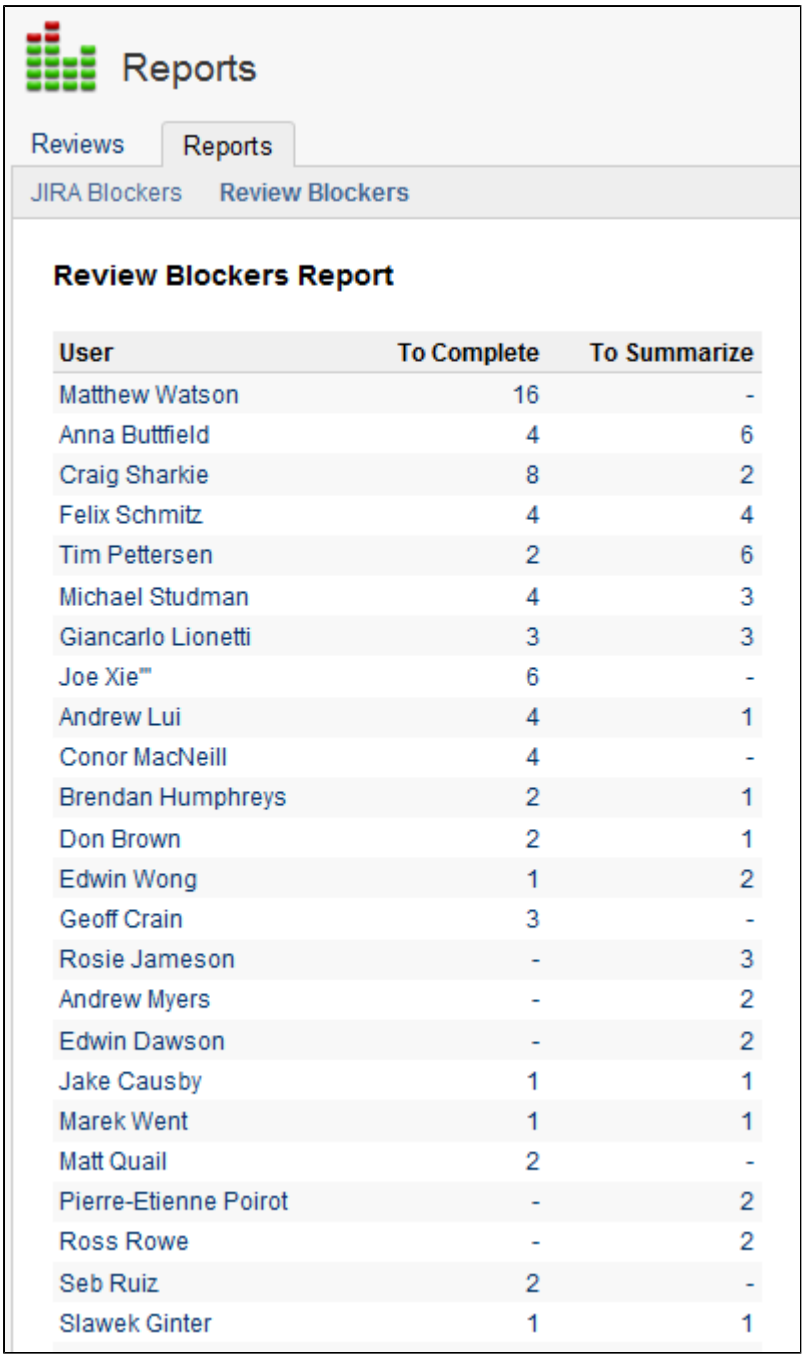

User	To Complete	To Summarize
Matthew Watson	16	-
Anna Buttfield	4	6
Craig Sharkie	8	2
Felix Schmitz	4	4
Tim Pettersen	2	6
Michael Studman	4	3
Giancarlo Lionetti	3	3
Joe Xie""	6	-
Andrew Lui	4	1
Conor MacNeill	4	-
Brendan Humphreys	2	1
Don Brown	2	1
Edwin Wong	1	2
Geoff Crain	3	-
Rosie Jameson	-	3
Andrew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

Viewing the JIRA Blockers report

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

To view the 'JIRA Blockers' report:

1. Click the dropdown arrow next to the **Reviews** tab at the top of the page and select **Reports**.
2. Click **JIRA Blockers** (under the 'Reports' sub-tab).
3. Enter details for your JIRA server and project, and click **Go**.

The 'JIRA Blockers' report displays the following information:

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

Screenshot: 'JIRA Blockers' Report

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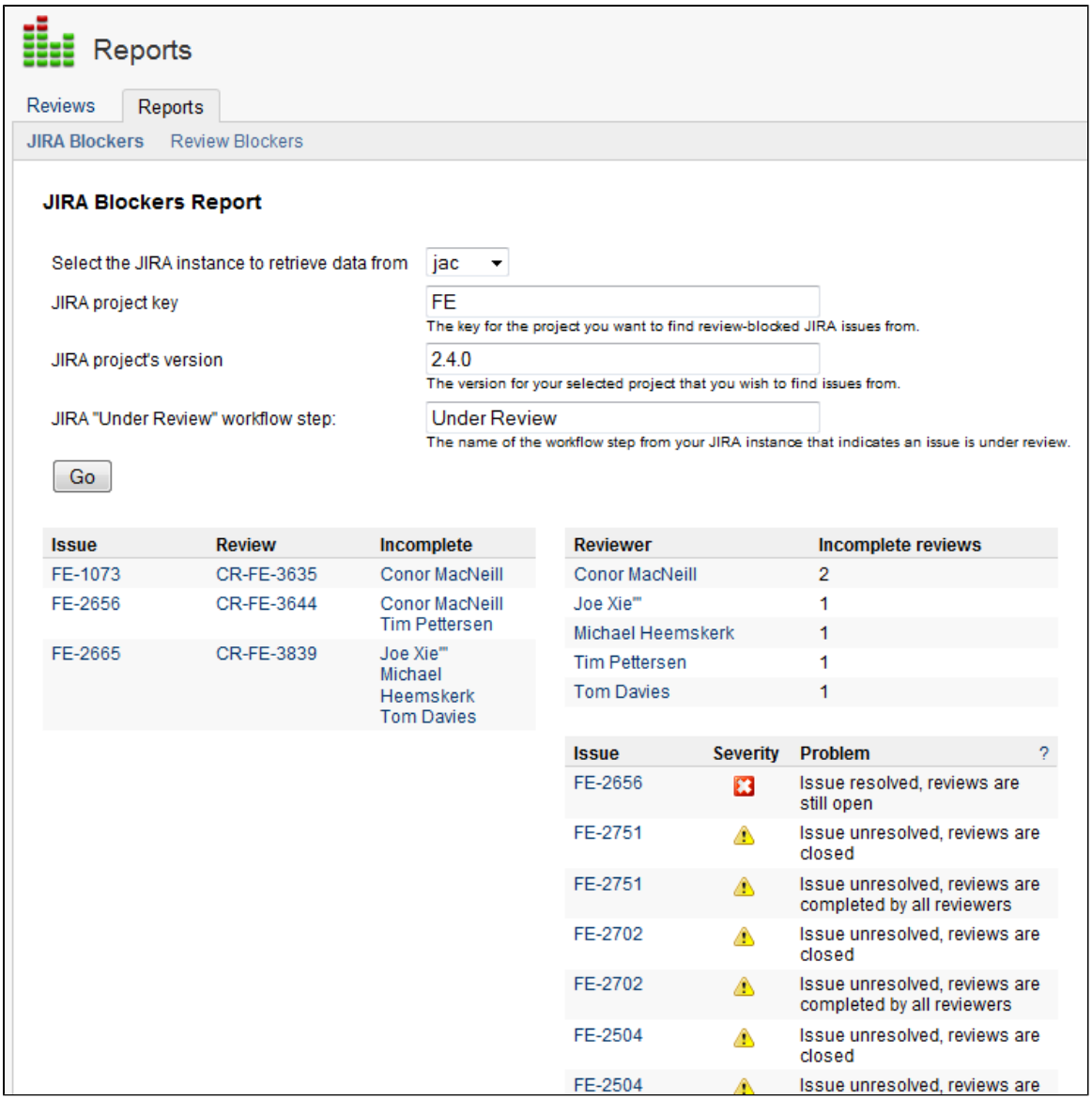

Review Coverage report

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

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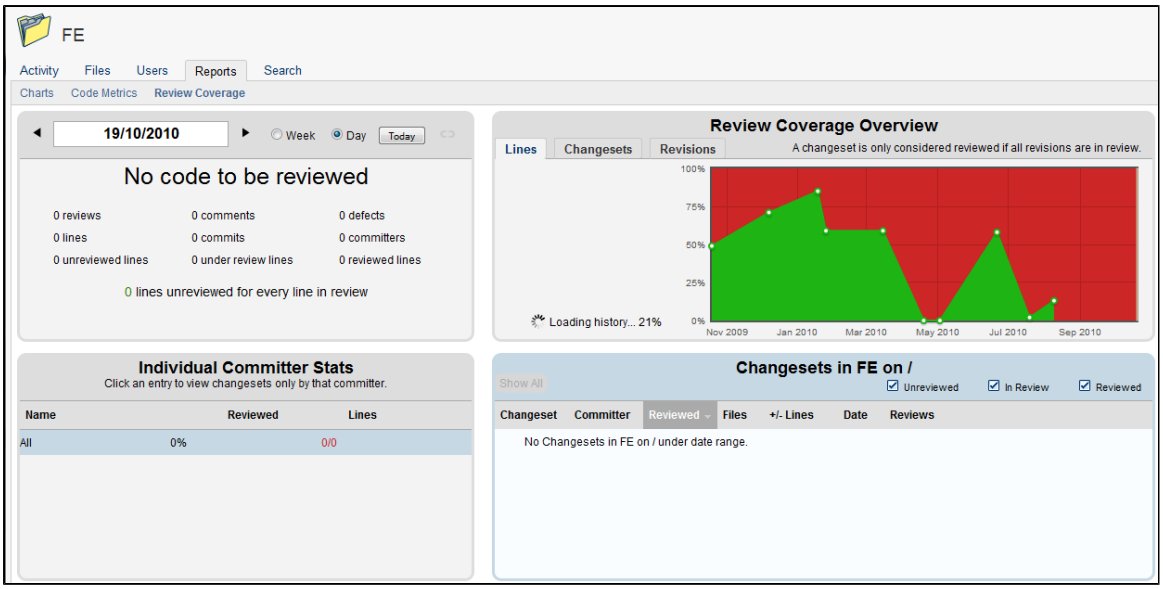


Opening the Review Coverage report

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.

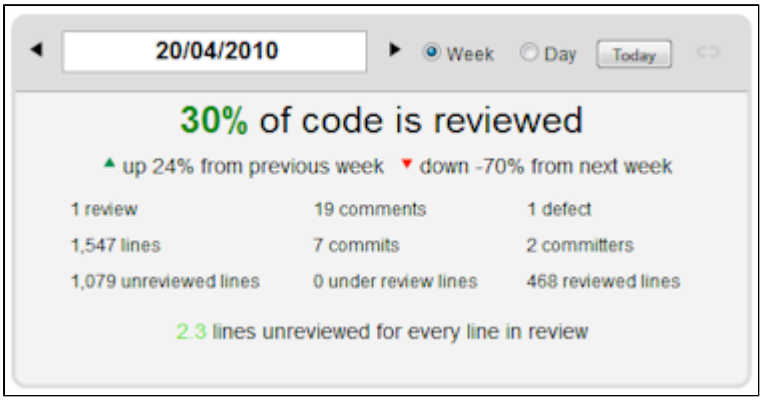
You can view coverage of any path by navigating down the tree to the desired path you want to view coverage on, before clicking on the **Reports** tab.

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



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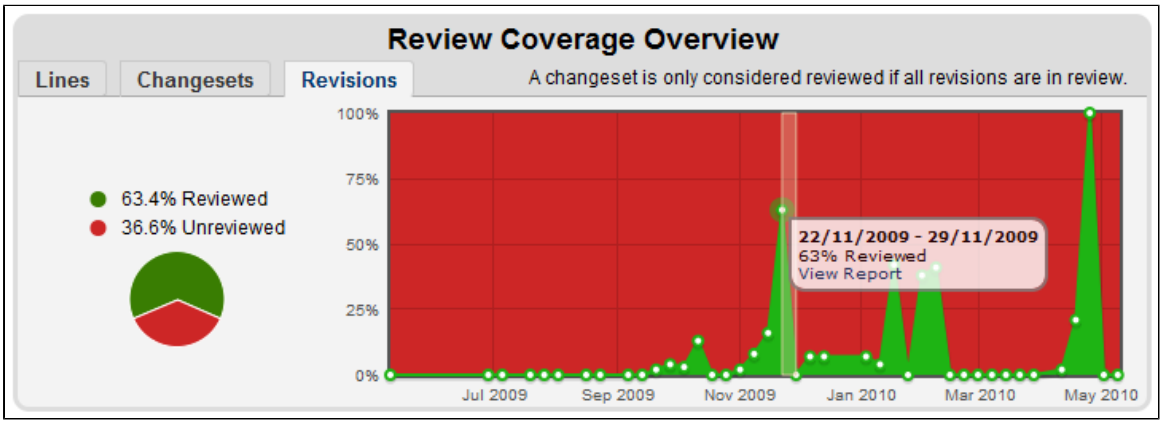
Using the Review Coverage Overview

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

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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

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:

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

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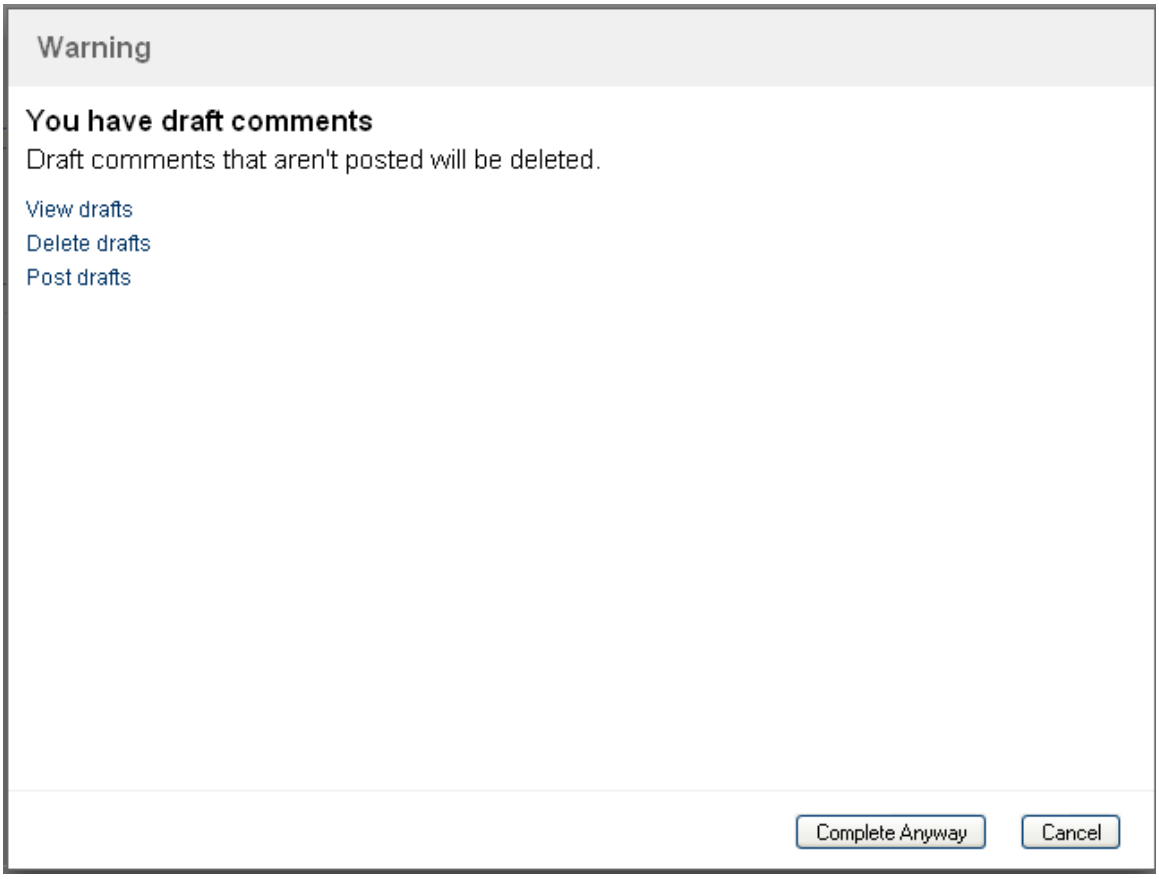
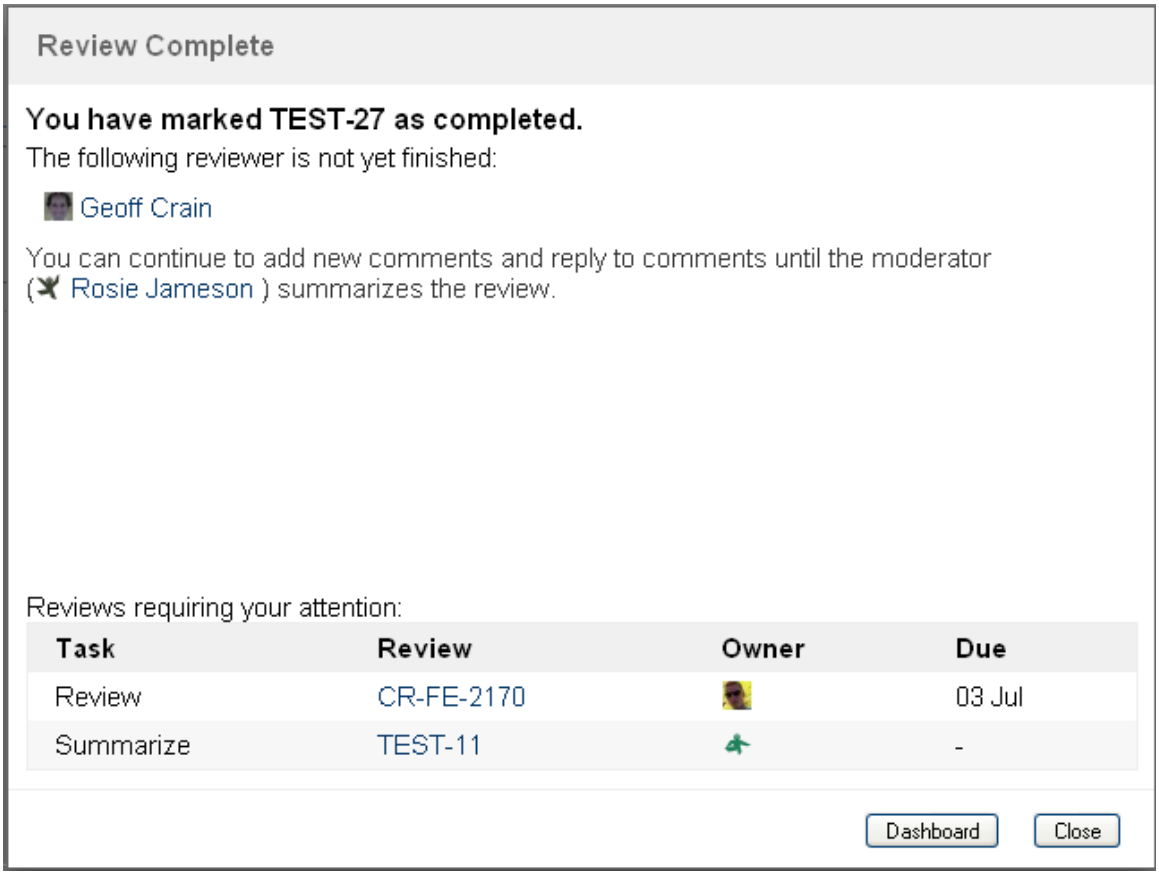
review.

Screenshot: Draft comments



Screenshot: Review complete



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Sending a review's comments via Email

You can send all of the comments from a review to anyone you want via email. You may wish to do this to allow a person outside the review to quickly scan the content of the comments, or oversee the review activity. Alternatively, you may wish to send all participants this information to let them read the current status of the review and its comments in full.

Before you begin:

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

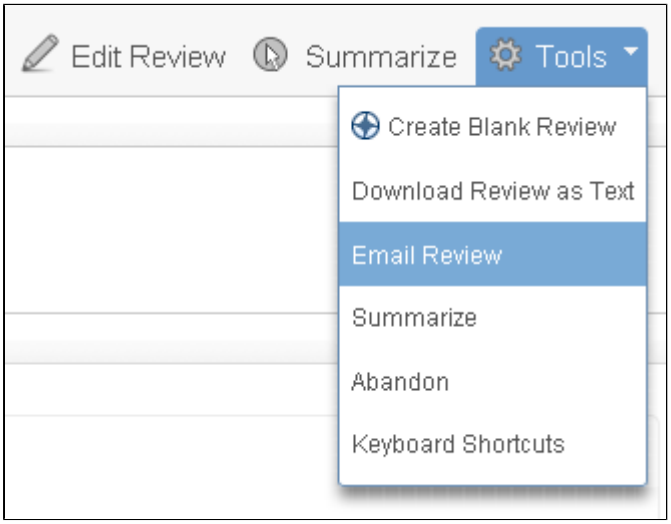
To send all of a review's comments via email:

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

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

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

Screenshot 1: The Email Review option in Crucible



Screenshot 2: The 'Recipients' Screen in Crucible

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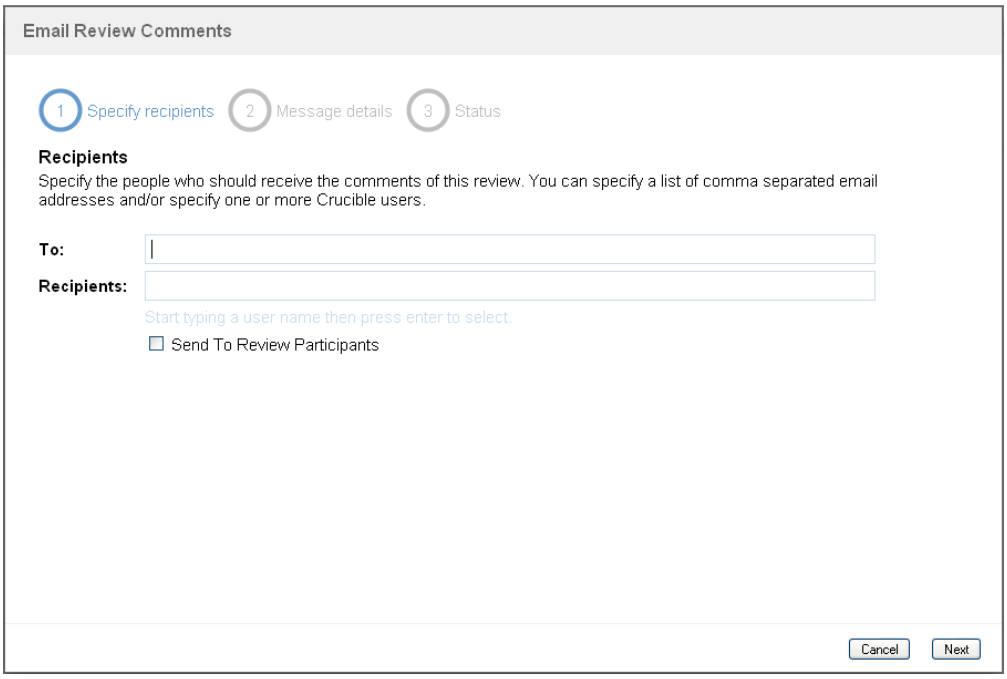
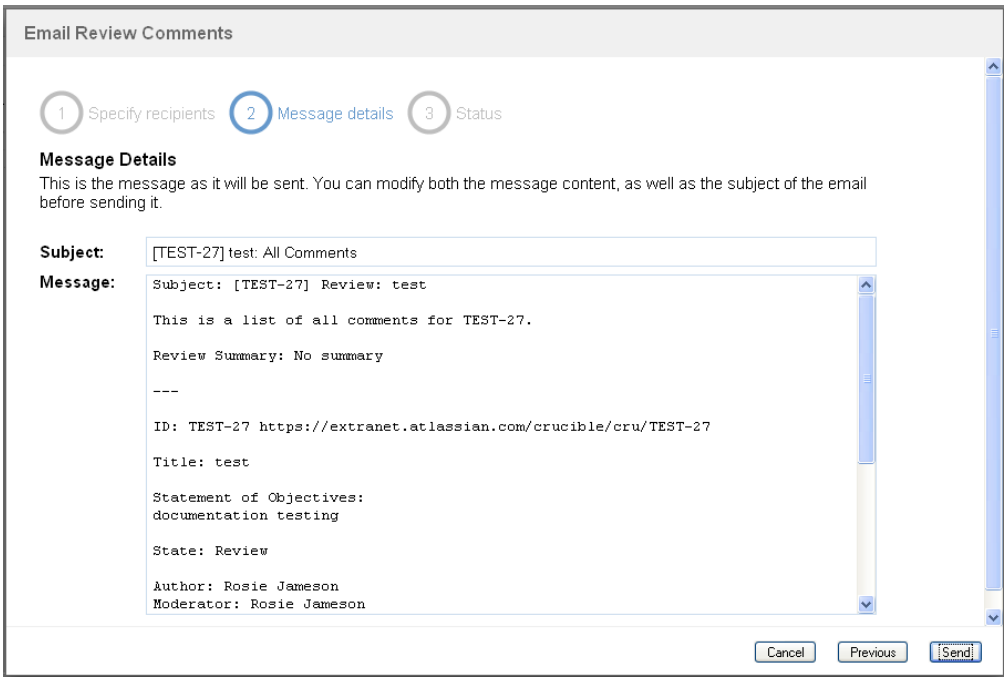


Screenshot 3: The 'Message' Screen in Crucible



Screenshot 4: The Email Confirmation Screen in Crucible

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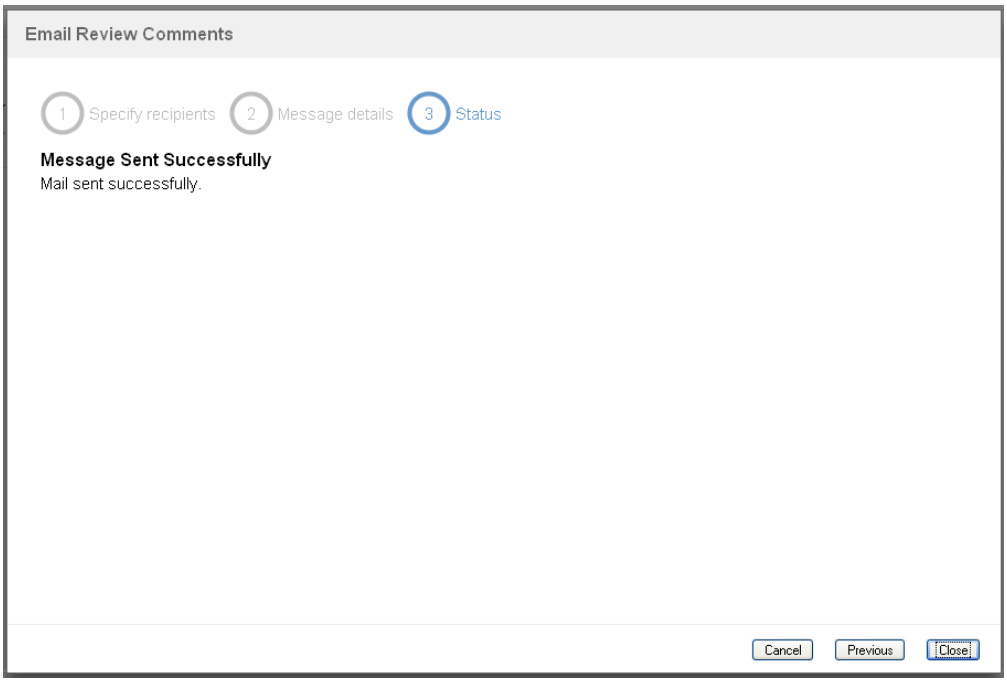


Using the Review History Dialog

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

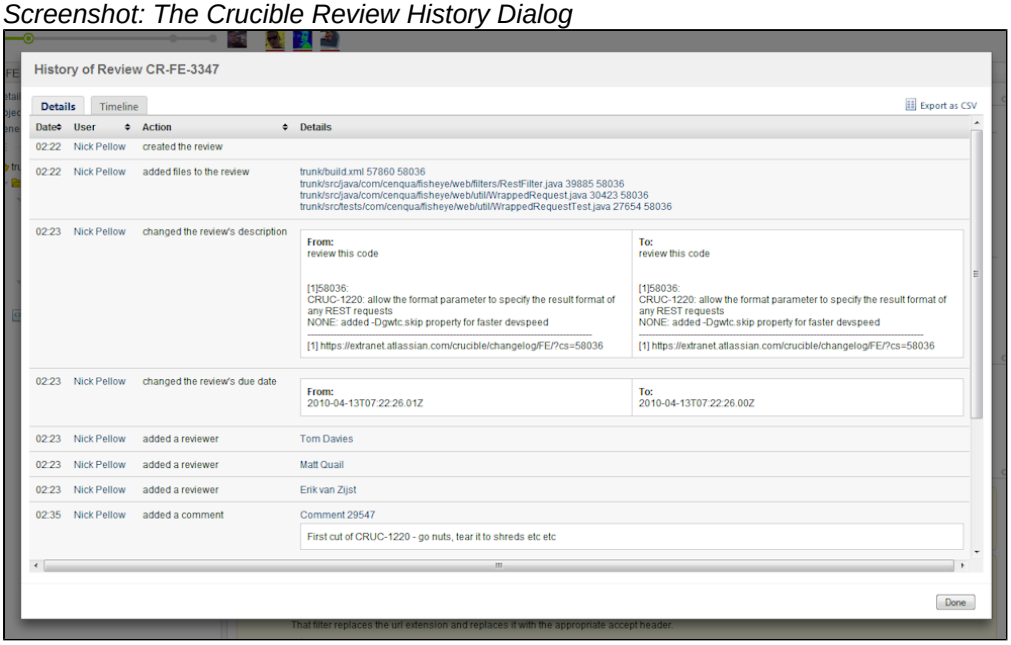
To open the Review History dialog:

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

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

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

Screenshot: The Crucible Review History Dialog



Screenshot: The Crucible Review History Dialog, Timeline View

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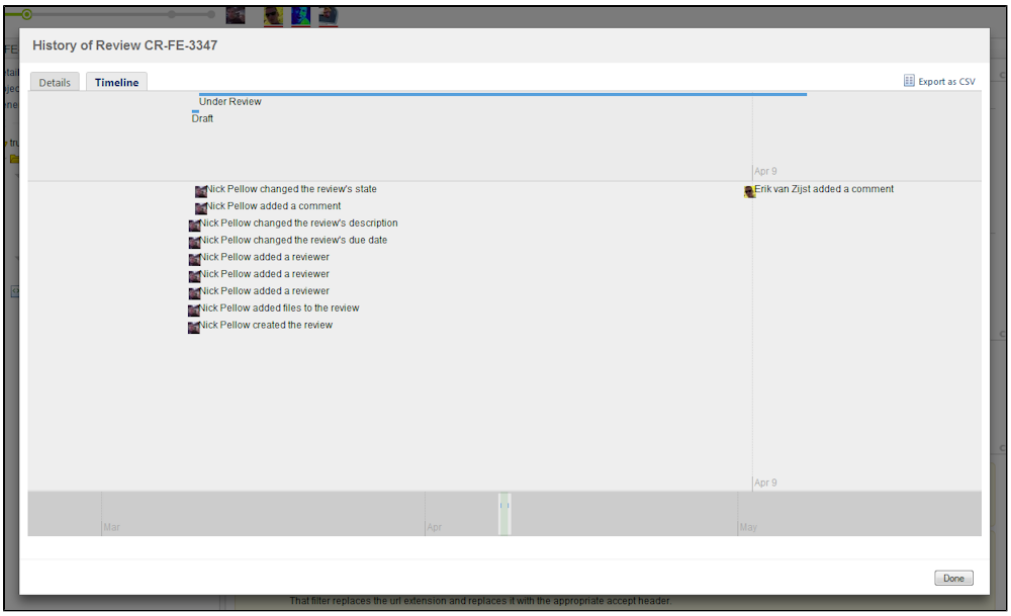

Using RSS feeds in Crucible

Subscribing to an RSS feed

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

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

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

Using Wiki Markup in Crucible

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

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

When using FishEye, you can also render Wiki Markup in commit messages.

Headings

Notation	Description
h1.Biggest heading	Turns text into a heading at size 1. **Biggest Text**
h2.Bigger heading	Turns text into a heading at size 2. **Bigger heading**
h3.Big heading	Turns text into a heading at size 3. ***Big heading***
h4.Normal heading	Turns text into a heading at size 4. **Normal heading**

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h5.Small heading	Turns text into a heading at size 5. ***Small heading***
h6.Smallest heading	Turns text into a heading at size 6. Smallest heading

Text Effects

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

Notation	Description
bold	Makes text appear **bold**.
italic	Makes text appear in *italics*.
+underline+	Makes text appear underlined.
??citation??	Makes text appear in —*citation* form.
-strikethrough-	Makes text appear ~~struck through~~.
^superscript^	Makes text appear in superscript.
~subscript~	Makes text appear in subscript.
`{{monospaced}}`	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: > *Some block quoted text*
{quote} here is quoteable content to be quoted {quote}	Quote a block of text that's longer than one paragraph. Example: > *here is quoteable* *content to be quoted*
{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

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`\\`	Creates a line break.
`----`	Creates a horizontal ruler.
`---`	Produces em dash — symbol.
`--`	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: • 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.

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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:
	• A bulleted list
	• Second item
	  ◦ indented item 1
	  ◦ indented item 2
	1. A numbered list
	2. Second item
	  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
||heading 1||heading 2||heading 3|| |col A1|col A2|col A3| |col B1|col B2|col B3|	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
{noformat}	Makes a preformatted block of text with no syntax highlighting. All the optional parameters of the {noformat} macro are valid for the {panel} macro as well. Example: `This is a no-formatted piece of text, so *no* _formatting_ is done here.`

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{panel}	Embraces a block of text within a fully customizable panel. The optional parameters you can define are as follows. • title: Title of the panel • borderStyle: The style of the border this panel uses (solid, dashed and other valid CSS border styles) • borderColor: The color of the border this panel uses • borderWidth: The width of the border this panel uses • bgColor: The background color of this panel • titleBGColor: The background color of the title section of this panel Examples: Some text in a basic panel **My Title** Some text with a title

{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): 🙂, ☹ .

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Notation	:)	:(	:P	:D	;)	(y)	(n)	(i)	(/)	(x)	(!)
Image											

Notation	(+)	(-)	(?)	(on)	(off)	(*)	(*r)	(*g)	(*b)	(*y)
Image										

Tracking Crucible Review Metrics

Crucible tracks each participant's percentage completion through each review and the total time they have spent.

To learn about these features, see the following pages:

- Using Progress Tracking
- Using Time Tracking

Using Progress Tracking

This page contains instruction on how to use progress tracking in Crucible.

On this page:

- How progress tracking works in Crucible
- Viewing the progress tracking totals
- How to adjust progress tracking on a review
- Adjusting settings for progress tracking
- Further reading

How progress tracking works in Crucible

As you work your way through the files in a review, Crucible tracks the ones you have viewed. Whenever you open a file for review, Crucible will automatically mark it as read.

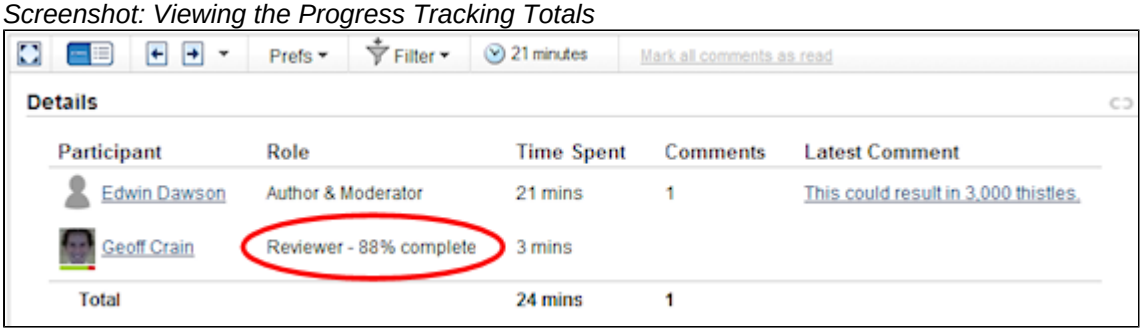
When participating in iterative reviews, progress tracking also takes lines of code and revisions into account.

Viewing the progress tracking totals

The **Details** view shows a summary of the progress of each participant through the files in the review.

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



How to adjust progress tracking on a review

You can mark a file as unread by clicking on its name to view the file's contents. In the source view, you have an option at the top left of the screen, **Leave Unread**. If you select that, then the file you are looking at will not be added to your progress percentage.

Screenshot: Marking a File as Unread

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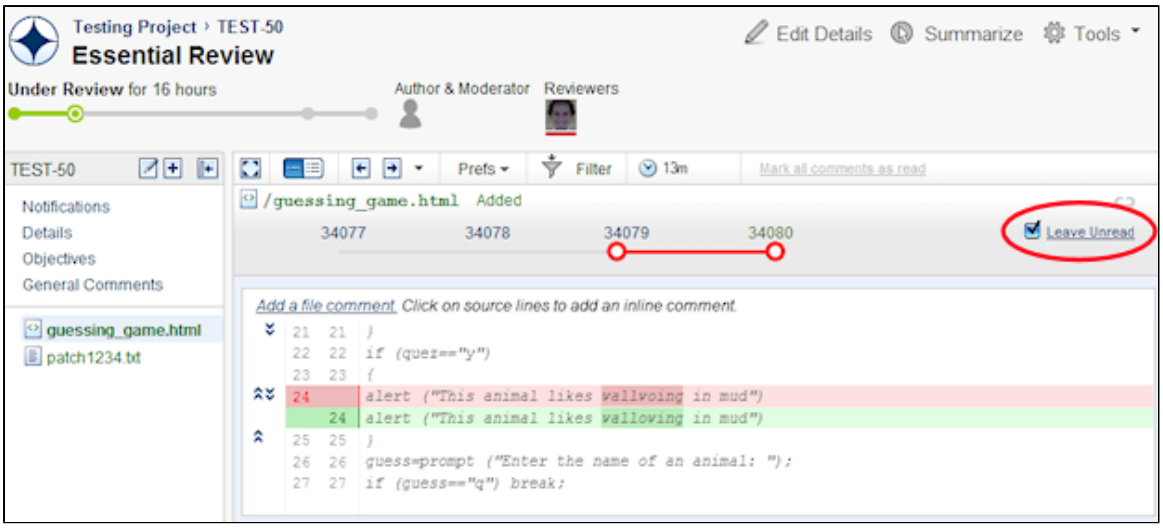
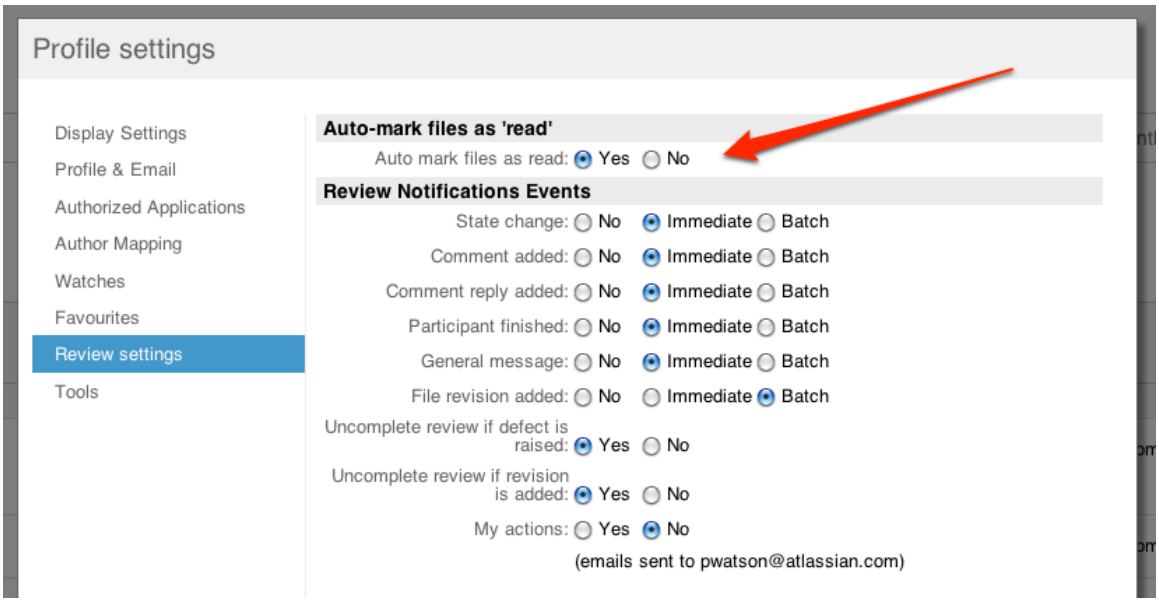


Adjusting settings for progress tracking

Progress tracking is a configurable user preference – choose **Profile settings** from you user menu. In the **Revie ws** sub-section. **Auto-mark files as read** is on by default. When **Auto-mark files as read** is 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

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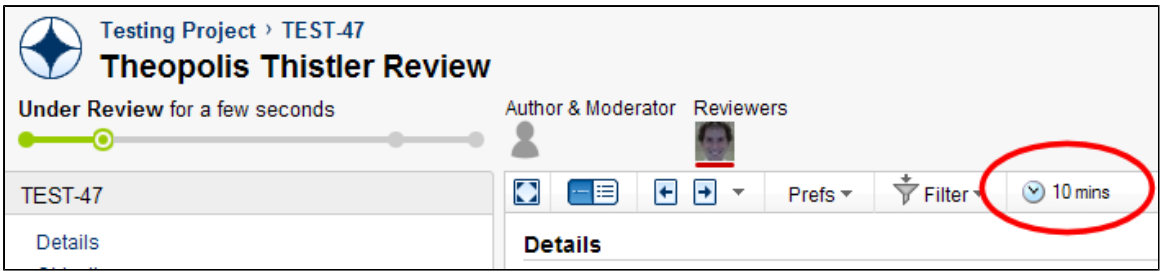


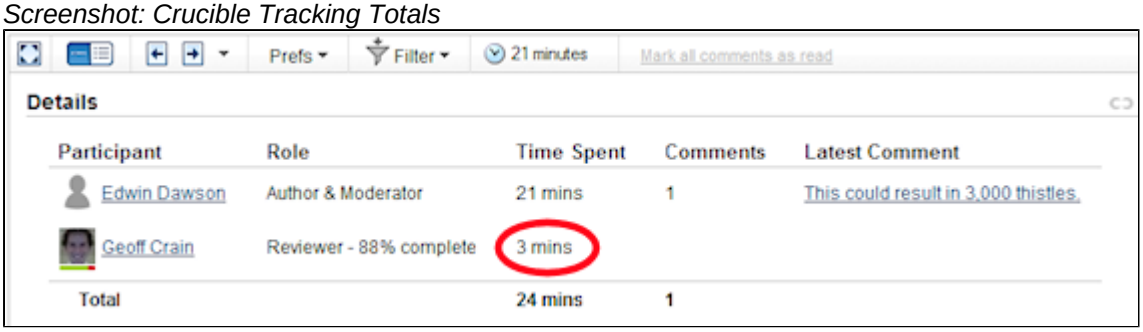
How to adjust the time tracked on a review

You can click and type in the time tracking control to adjust the time you have spent during the session.

Viewing the time tracking totals

The '**Details**' view shows a summary of the progress and time tracked on each file.

Screenshot: Crucible Tracking Totals



JIRA integration

Using Crucible when integrated with JIRA, you can update time tracking from the following locations:

- The confirmation dialog for a reviewer completing a review,
- The confirmation dialog on closing a review,
- The regular toolbar location in Crucible.

Screenshot: JIRA Time Tracking Integration

Further reading

You may also want to learn about Crucible's Progress Tracking feature.

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:

- Link your Crucible review to a JIRA issue
- Create a JIRA issue from a review comment
- Transition JIRA issues from within Crucible

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- See issues from multiple instances of JIRA

In JIRA, you can:

- Create a Crucible review directly from an issue in JIRA

Related pages:

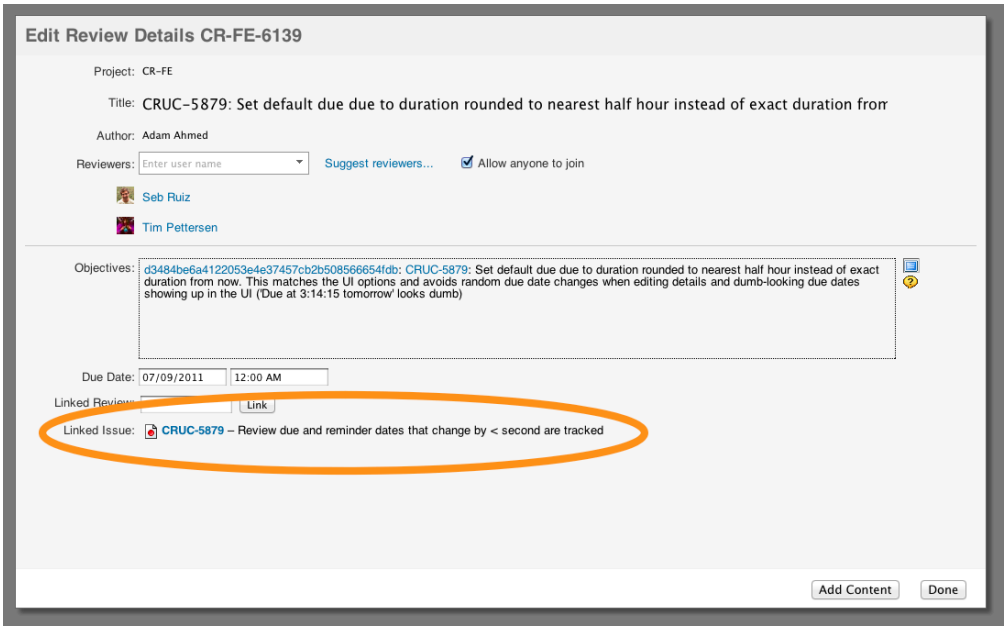
- Creating a review from JIRA
- Creating JIRA issues from the review
- Transitioning JIRA issues
- Linking Crucible to JIRA

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

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.



Create a JIRA issue from a review comment

When viewing any review comment (genaral, 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.

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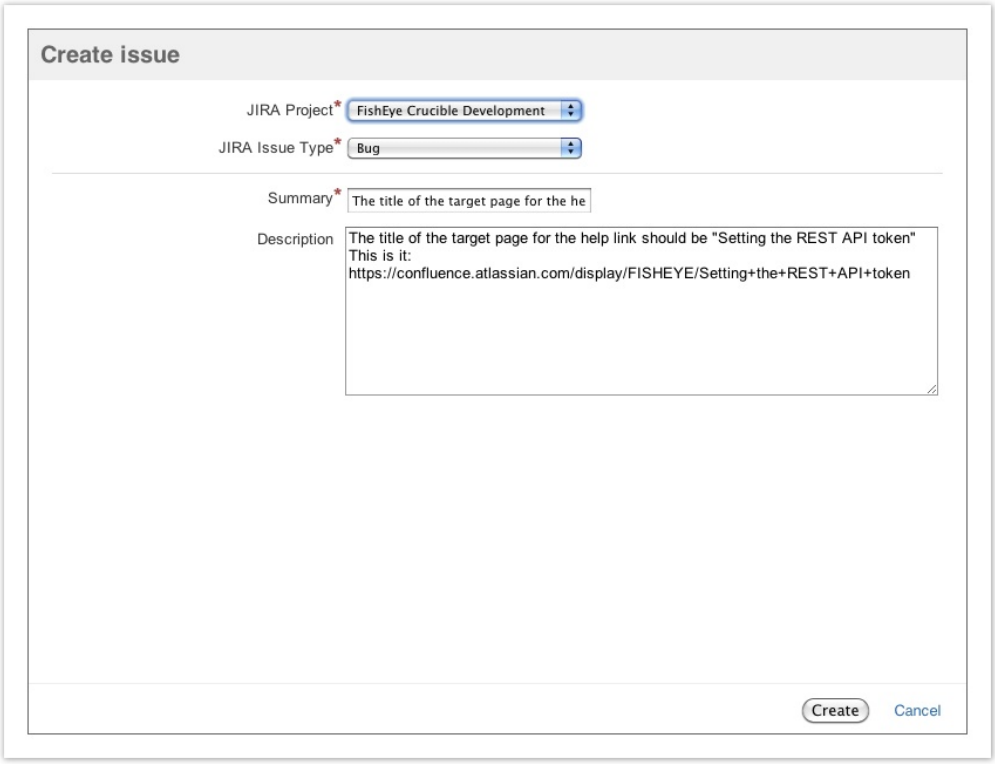
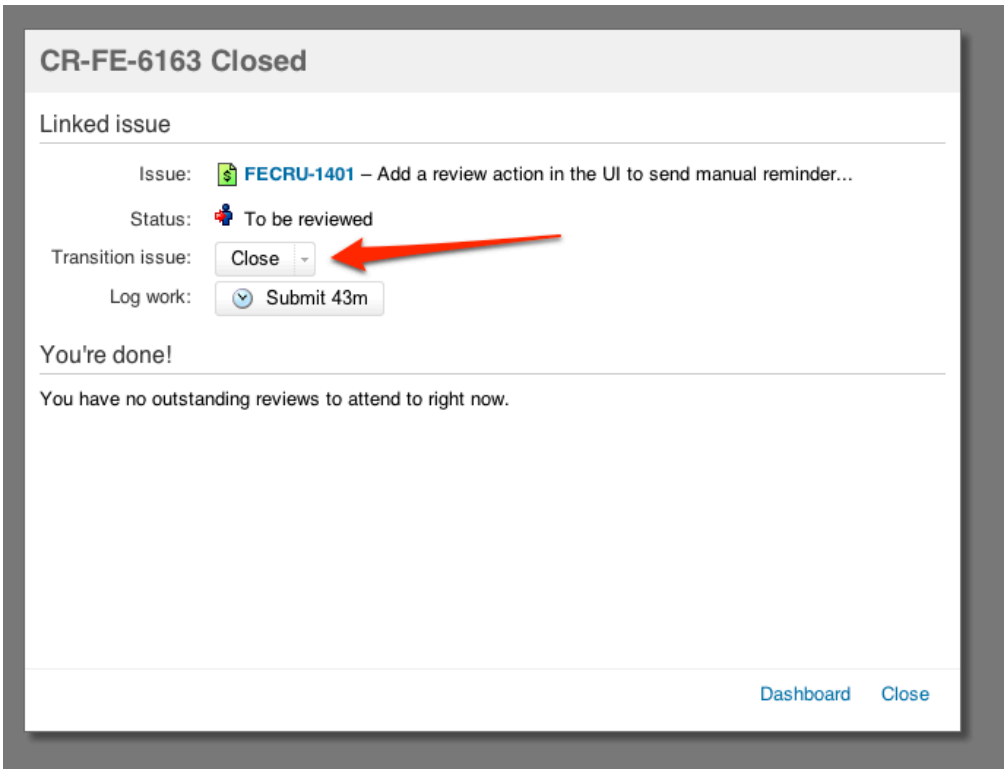


Transition JIRA issues from within Crucible

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

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different JIRA instances, or a single team can link to issues across multiple JIRA servers.

Summarising and closing the review

Summarize is an optional step before closing a review.

To enable or disable the Summarize step, you will have to configure the permission in your Permission Scheme. Crucible ships with two permission schemes:

- 'Agile' - the summarize step is disabled for all users
- 'Default' - the summarize step is enabled for the moderator

You can choose to either **summarize a review** or **close a review** at any time, given that your Permission Scheme allows it. You can skip the summarize step by directly clicking the **Close** button.

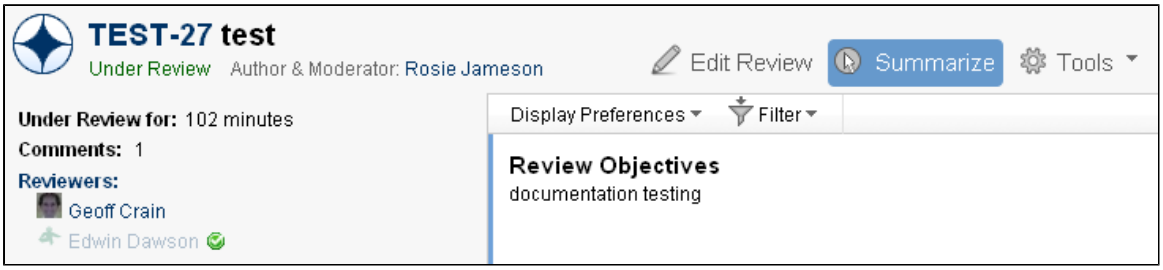
Note that you need the 'Summarize', 'Close' or 'Re-Open' permission to summarize, close or re-open a review.

Normally, we recommend that you wait for all reviewers to complete their reviews, before summarizing or closing the review.
The reviews that the reviewers have completed will be in your **Ready to Close** menu on the Dashboard.

To summarize a review,

- Click **Summarize** at the right of the screen.
- Optionally enter a summary of the review.
- If you have no further comments to add, click **Close Review**; otherwise, click **Continue Without Closing**.
- On clicking **Summarize**, you may be prompted to confirm the action if there are incomplete reviews or draft comments in the review. These are warnings, however; the review can still be summarized and closed.

Screenshot: 'Summarize' button. We can see that Geoff Crain has still not finished reviewing, because there is no green tick next to his name.



Once the review is in the 'Summarize' state, the moderator can optionally add a review summary, for example, to describe the outcomes/tasks/etc:

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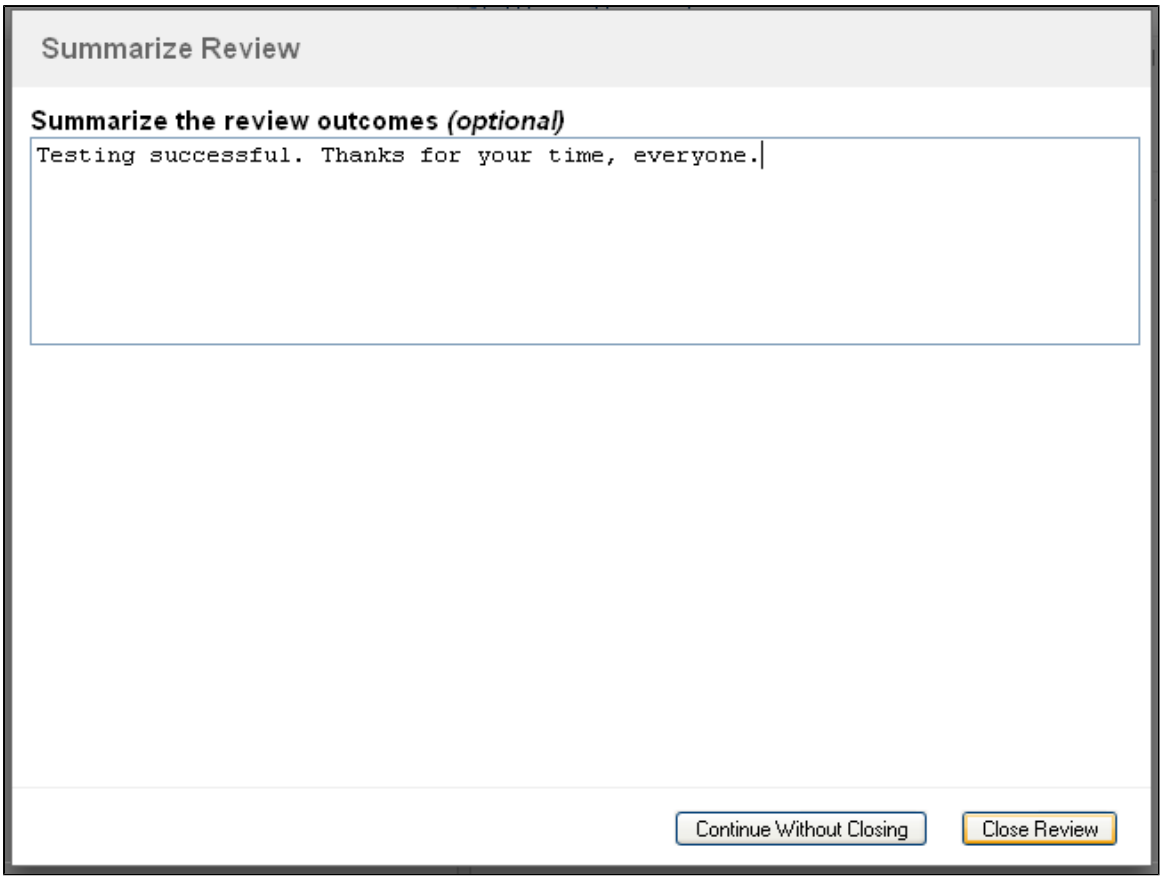
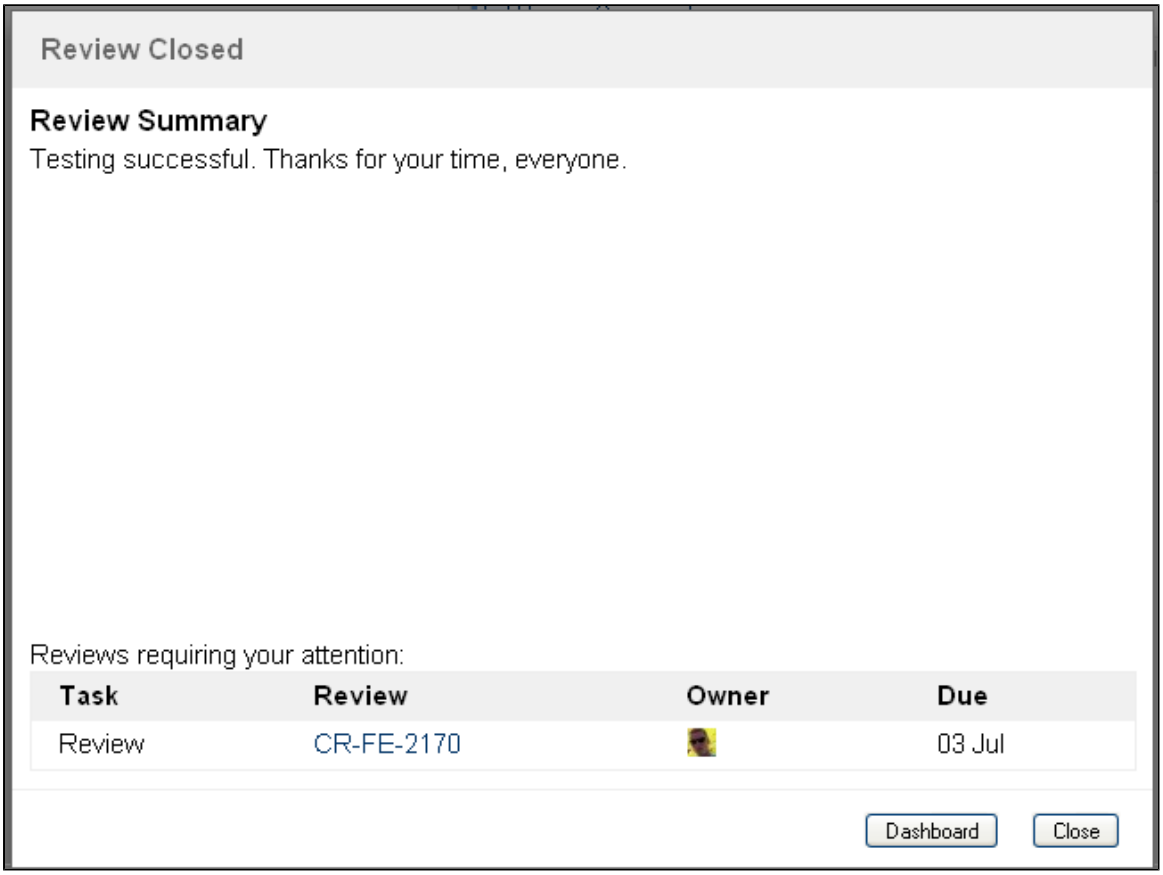


Screenshot: Review Closed



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.

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- 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
- Deleting a review

Using Review Reminders

Crucible will automatically send reviewers a reminder email one working day before the deadline.

Review authors and moderators can also do the following:

- Send manual reminders to reviewers whose work is still pending.
- Configure preset reminders for reviews that have a deadline.

Reminders are only sent if Crucible's SMTP server is configured. Please see Configuring the SMTP server.

Preset Reminders

When a review has a deadline (due date), Crucible (by default) will send a preset reminder to all of the pending reviewers, one working day before the deadline.

To edit the timeframe for the reminder, firstly edit the review, then click **Remove** next to **Send Reminder**. Now, set the day for the reminder email to be sent (a number of working days before the deadline).

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

Manual Reminders

Crucible can send manually-initiated reminders to all the reviewers that have not yet completed their reviews.

To do this, click **Tools** > **Notify Pending Reviewers**. The reminder message will be sent immediately.

ⓘ This capability is only open to those participants who are authorised to summarize the review.

Moving a Review to Another Project

You can move reviews between projects once they have been created.

To move a review between projects:

1. Open the review. Click the '**Edit Review**' button at the top of the screen.
2. The '**Edit Review**' window will open, allowing you to change various aspects of the review.
3. Under '**Project**' click the drop-down menu. This will allow you to select a new parent project for the review.
4. Click the '**Done**' button at the bottom of the screen.

Screenshot: Changing a Review's Parent Project

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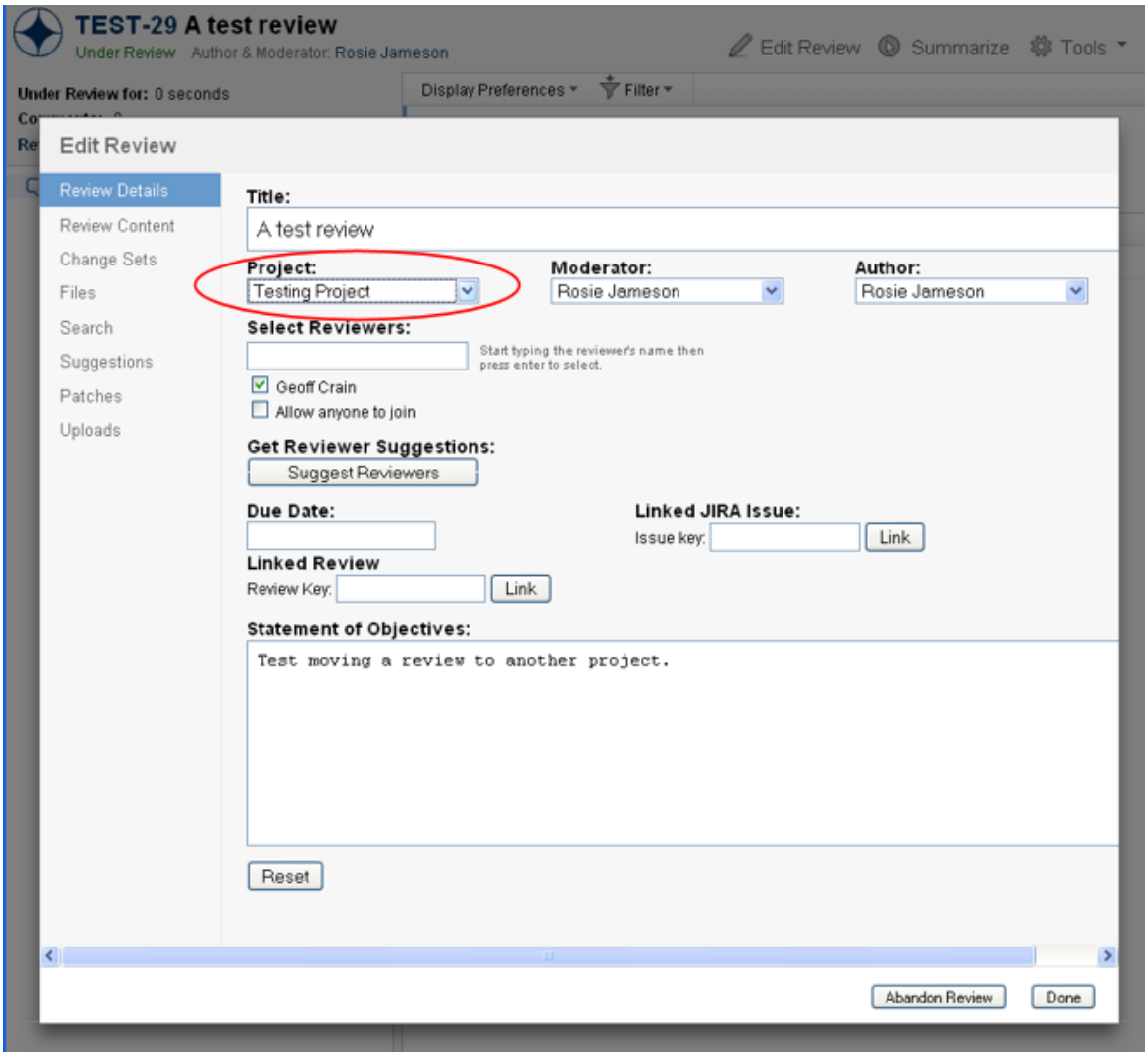

Deleting a review

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

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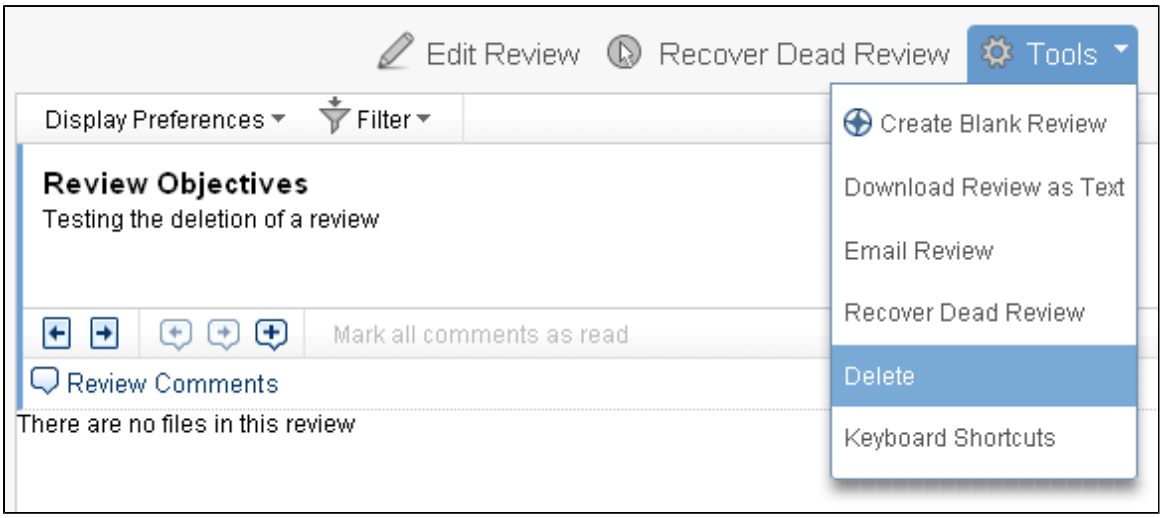


Transitioning JIRA issues

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:

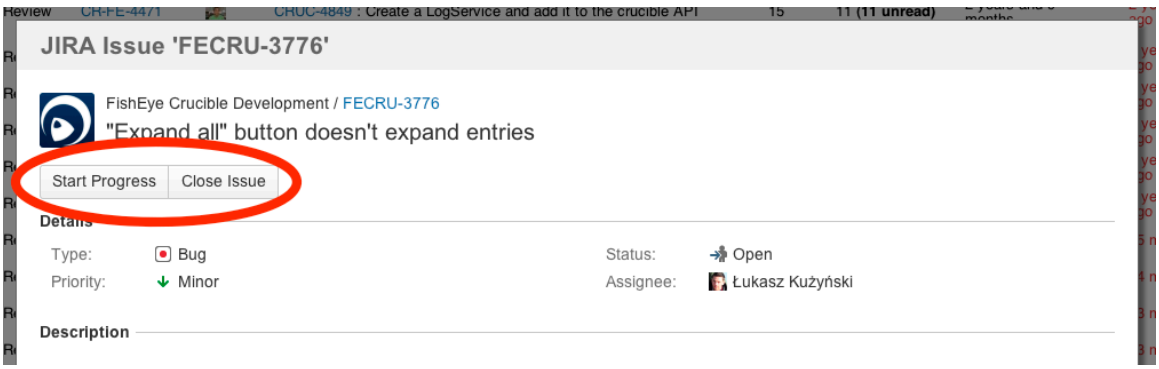
- Transitioning any JIRA issue at any time
- Transitioning a linked JIRA issue when closing the review

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:

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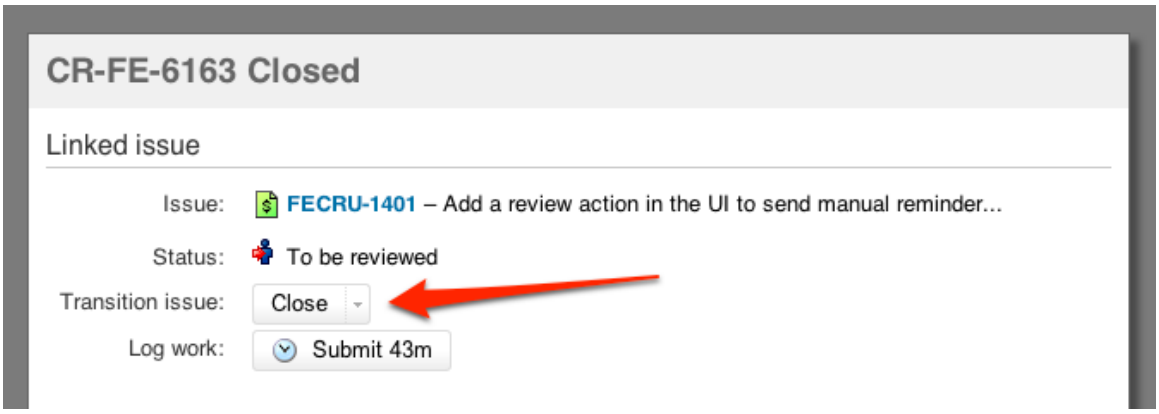

Choose a step from the dropdown, and click **Close**.

Notes

- JIRA administrators can activate or deactivate JIRA issue transitions (the workflow) from the JIRA administration interface.
- Only the transitions accessible by the user are displayed.
- The list of available transitions only appears if the user has visibility to any available workflow transitions.

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

Crucible releases

Crucible 3.1

27 August 2013

- Dashboard improvements
- QuickNav and QuickSearch improvements
- New JIRA issue dialog
- Transition JIRA issues from within Crucible
- Small improvements: native SVN 1.7, OpenJDK
- More in the release notes and changelog

See the Crucible upgrade guide.

Crucible 3.0

30 May 2013

- Redesigned user experience
- Review CLI tool
- Iterative pre-commit reviews
- Platform upgrades: Jetty 8, Infinity 3 DB
- Optimised indexing for new SVN repositories
- Small improvements
- More in the release notes and changelog

See the Crucible upgrade guide.

Crucible 2.10

15 January 2013

- Inline issue creation
- Repository management REST API
- Repository review creation limit
- More in the release notes
- Crucible 2.10 upgrade guide

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Crucible 2.9

14 November 2012

- Simpler JIRA integration
- Better performance of the Reviews tab in JIRA
- Faster review creation for large teams
- More in the release notes
- Crucible 2.9 upgrade guide

Crucible 2.8

15 August 2012

- Mentions
- Shares
- Improved performance for the projects listing
- Support for Subversion 1.7
- End of life announcements
- More in the release notes
- Crucible 2.8 Upgrade Guide

Crucible 2.7

7 September 2011

- JIRA Transitions in Crucible
- Review Reminders
- Small Improvements
- More in the release notes
- Crucible 2.7 Upgrade Guide

Crucible 2.6

6 June 2011

- New Quick Search
- HTML Emails for Reviews
- Dashboard and Navigation Improvements
- SQL Server Support
- Oracle Support
- Review Creation without Metadata Changes
- Improved Patch Anchoring
- More in the release notes
- Crucible 2.6 Upgrade Guide

Crucible 2.5

8 February 2011

- Oracle (Beta)
- Redesigned Activity Stream
- Improved Header
- Comment Notification Batching
- More in the release notes
- Crucible 2.5 Upgrade Guide

Crucible older release notes (click to expand)

Crucible 2.4

20 October 2010

- Easier Application Linking

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- Native Repository Access
- Starter Licenses
- Adding Changesets to Reviews Simplified
- User Interface Improvements
- Snippets Tweaks
- More in the release notes
- Crucible 2.4 Upgrade Guide

Crucible 2.3

26 May 2010

- Snippet Reviews
- Changeset Discussions
- Mercurial SCM Alpha
- Review Coverage report
- Revamped Installation Process
- Gadgets
- More in the release notes
- Crucible 2.3 Upgrade Guide

Crucible 2.2

18 February 2010

- Smart Pre-Commit (Patch) Support
- 'No Moderator' Reviews
- Wizard-Like Review Creation
- Integrated Timetracking Between Crucible and JIRA
- Edit Mode for Reviews
- More in the release notes
- Crucible 2.2 Upgrade Guide

Crucible 2.1

12 November 2009

- Wiki Markup Rendering
- Progress Tracking
- Usability and Productivity Updates
- Streamlined JIRA Integration
- Review Time Tracking
- Review History Dialog
- "Blockers" Reports
- Threaded Comments
- Plugin Developer Tools
- More in the release notes
- Crucible 2.1 Upgrade Guide

Crucible 2.0

30 June 2009

- Support for iterative reviews
- New User Interface
- Indicators for read/unread comments
- Enhanced JIRA integration
- More in the release notes
- Crucible 2.0 Upgrade Guide

Crucible 1.6

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23 September 2008

- Support for non-FishEye repositories
- Confluence page reviews
- Shared file system repositories
- Enhanced pre-commit reviews & image support
- Multiple admin users
- Expanded API
- More in the release notes
- Crucible 1.6 Upgrade Guide

Crucible 1.5

14 April 2008

- Project Dashboard
- Filtered comments & defects search, with statistical summary
- Customisable email templates
- Improvements to Crucible Plugin API beta
- More in the release notes
- Crucible 1.5 Upgrade Guide

Crucible 1.2

5 Dec 2007

- Reviews grouped into projects
- Customisable permission schemes
- Plugin API
- Enhancements to user management
- JIRA integration
- Crucible 1.2 includes FishEye 1.4
- More in the release notes
- Crucible 1.2 Upgrade Guide

Crucible 1.1

18 September 2007

- Pre-commit review (patch review)
- Review participants can keep track of their progress through a review by marking each file as "done"
- Side-by-side diff mode within the Review display
- Syntax highlighting when displaying a diff
- More in the release notes
- Crucible 1.1 Upgrade Guide

Crucible 1.0.x Changelog

Security advisories (click to expand)

Security advisories

- FishEye and Crucible Security Advisory 2013-07-16
- FishEye and Crucible Security Advisory 2012-08-21
- FishEye and Crucible Security Advisory 2012-05-17
- FishEye and Crucible Security Advisory 2012-01-31
- FishEye and Crucible Security Advisory 2011-11-22
- FishEye and Crucible Security Advisory 2011-05-16
- FishEye and Crucible Security Advisory 2011-01-12
- Crucible Security Advisory 2010-06-16
- Crucible Security Advisory 2010-05-04

Crucible upgrade guide

This page describes how to upgrade to a new version of Crucible.

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- For the latest Crucible release, see Crucible releases.
- Read about how your Crucible installation works with FishEye.
- For production environments we recommend that you test the Crucible upgrade on a QA server before deploying to production.

On this page:

- Upgrade steps
- Upgrading to Crucible 3.1
- Upgrading to Crucible 3.0
- Checking for known issues and troubleshooting the Crucible upgrade

Upgrade steps

This section provides general instructions for upgrading Crucible. See also the specific notes on this page for the version of Crucible you are upgrading to. We *strongly recommend* that you upgrade Crucible by following these steps:

- Back up your **entire** Crucible instance (see Backing up and restoring Crucible data):
  - If you are backing up your Crucible instance via the Admin interface, tick all of the **Include** checkbo xes (e.g. plugins, templates, uploads, SQL database, etc).
  - If you are backing up your Crucible instance using the command-line interface, do not use any excl usion options.
- Read the Release Notes and Changelog and version-specific Upgrade Guides for the version you are upgrading to, as well as for any versions you are skipping.
- Read the Supported platforms page for the full list of supported platforms for Crucible.
- Download the Crucible zip file.

Your upgrade procedure depends on whether you are using a `FISHEYE_INST` directory (i.e. "FishEye instance" directory).

- The `FISHEYE_INST` directory is the FishEye data directory (*not* the installation directory) and has a location defined by the `FISHEYE_INST` environment variable. It is used to keep the FishEye data completely separate from the FishEye/Crucible application files. We recommend that you configure FishEye/Crucible to use a `FISHEYE_INST` directory for production instances. Read more about `FISHEYE _INST` in Installing FishEye on Windows or Installing FishEye on Linux and Mac.
- The `<FishEye home directory>` is the location of the FishEye/Crucible application files.

NOTE: For all methods below, if you previously ran FishEye as a Windows service and are installing the new version of FishEye in a new location, you need to reinstall FishEye as a Windows service. Make sure to run ...\wrapper\bin\Fisheye-Uninstall-NTService.bat from the old location. Subsequently, prior to starting the new instance of FishEye, follow these instructions to set up Fisheye as a Windows service again. Make sure to copy over the changes from the old ...\wrapper\conf\wrapper.conf file to the new wrapper.conf file.

Method 1: Using a FISHEYE_INST directory

Click here to expand...

If you have FishEye/Crucible configured to use a `FISHEYE_INST` directory, then follow the instructions below. This is the recommended scenario for production installations.

1. Shut down your existing FishEye/Crucible server, using `bin\stop.bat` or `bin\stop.sh` from the `<FishEye home directory>`.
2. Make a backup of your `FISHEYE_INST` directory.
3. Download FishEye or Crucible.
4. Extract the new FishEye/Crucible version to a new directory.
5. Leave your `FISHEYE_INST` environment variable set to its existing location. Both FishEye and Crucible use this variable.
   - Please be aware that jar files in the `FISHEYE_INST/lib` directory may conflict with those required for FishEye's normal operation. Jar files in this directory should be limited to those which provide functionality not provided by FishEye (e.g. database drivers).
6. Start FishEye/Crucible from the new installation directory by running `bin/run.sh`. (Use `run.bat` on Windows.)

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7. Follow any version-specific instructions found in the FishEye upgrade guide or Crucible upgrade guide .

Method 2: Without a FISHEYE_INST directory

Click here to expand...

If you do not have FishEye/Crucible configured to use a `FISHEYE_INST` directory and do not want to set one up, then follow the instructions below. The `<FishEye home directory>` is the location of the existing FishEye/Crucible installation. Note that this is the typical scenario for evaluation installations, and is not recommended for production installations.

You will need to copy some files from your old FishEye/Crucible installation to your new one.

1. Download FishEye or Crucible.
2. Extract the new FishEye/Crucible archive into a directory such as `<New FishEye home directory>`.
3. Shut down the old FishEye/Crucible server, using `bin\stop.bat` or `bin\stop.sh` from the `<FishEye home directory>`.
4. Copy `<FishEye home directory>/config.xml` to `<New FishEye home directory>`.
5. Delete the following directories from the `<New FishEye home directory>/var` directory:
   - `<New FishEye home directory>/var/cache`
   - `<New FishEye home directory>/var/data`
   - `<New FishEye home directory>/var/log`
6. Copy (or move) the following directories from `<FishEye home directory>/var` to `<New FishEye home directory>/var`:
   - `<FishEye home directory>/var/cache`
   - `<FishEye home directory>/var/data`
   - `<FishEye home directory>/var/log`

   DO NOT include the following directories when you do that:
   - `<FishEye home directory>/var/osgi-cache`
   - `<FishEye home directory>/var/plugins`
   - `<FishEye home directory>/var/tmp`
7. Delete the `<New FishEye home directory>/cache` directory.
8. Copy (or move) the `<FishEye home directory>/cache` directory to `<New FishEye home directory>/cache`.
9. Start FishEye/Crucible from the new installation by running `<New FishEye home directory>/bin/run.sh`. (Use `run.bat` on Windows.)
10. Follow any version-specific instructions found in the FishEye upgrade guide or Crucible upgrade guide.

Method 3: Without a FISHEYE_INST directory, but would like to set one up

Click here to expand...

If you do not have FishEye/Crucible configured to use a `FISHEYE_INST` directory but would like to set one up, then follow the instructions below. You may wish to do this when reconfiguring an existing installation for a production environment.

The `FISHEYE_INST` directory is the FishEye data directory, which has a location defined by the `FISHEYE_INST` environment variable, and which should be completely separate from the `<FishEye home directory>`. The `<FishEye home directory>` is the location of the existing FishEye/Crucible installation.

1. Download FishEye or Crucible.
2. Shut down the existing FishEye/Crucible server, using `bin\stop.bat` or `bin\stop.sh` from the `<FishEye home directory>`.
3. Set up the `FISHEYE_INST` environment variable, then create the `FISHEYE_INST` directory on your file system.
4. Copy `<FishEye home directory>/config.xml` to the `FISHEYE_INST` directory.
5. Copy the `<FishEye home directory>/var` directory to the `FISHEYE_INST` directory.
6. Copy the `<FishEye home directory>/cache` directory to the `FISHEYE_INST` directory.
7. If it exists, copy the `<FishEye home directory>/data` directory to the `FISHEYE_INST` directory.
8. Extract the new FishEye/Crucible archive into a directory such as `<New FishEye home directory>`.

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9. Start FishEye/Crucible from the new installation by running `<New FishEye home directory>/bin/run.sh`. (Use `run.bat` on Windows.)
    - If your configuration is not automatically picked up and you cannot see your existing repositories, check your **Administration > Sys-Info** page, where you will see information about the `<FishEye home directory>` and `FISHEYE_INST`. Check that your `FISHEYE_INST` is pointing to the right directory.
10. Follow any version-specific instructions found in the FishEye upgrade guide or Crucible upgrade guide.

Upgrading to Crucible 3.1

Please also see the Upgrade steps section above, and read the End of Support Announcements for Crucible page.

Please note the following changes in Crucible 3.1:

Crucible 3.1 Merge some per-repository Lucene indices into a global cross-repository Lucene index

Crucible 3.1 has greatly improved performance and scalability for QuickSearch and QuickNav. To achieve this, the per-repository 'METADATA' Lucene indices will be moved into a single global cross-repository Lucene index. This means Crucible is able to search across more repositories in less time because now only a single search index needs to be queried instead of the previous N. Merging these indices into the single cross-repository index can be refreshed in two ways:

1. **Recommended**: As an upgrade task that is run automatically when Crucible 3.1 is run for the first time.
2. As an offline process on a separate staging server.

During the automatic upgrade task, Crucible is fully usable and functional, although search results for files, commits and committers may be incomplete.

In our testing we have found that the automatic upgrade task took 4 hours to complete on a Crucible instance with 144 repositories of different kinds, with 58 GB of data in the FISHEYE_INST folder (excluding logs). We are confident that the automatic upgrade task is suitable for the majority of production Crucible installations. *It is worth repeating that the instance was fully functional (reviews, JIRA Integration, Activity Streams, Charts etc) apart from Quick Nav and Quick Search during this time.*

Nevertheless, where required, we provide instructions for performing the reindex as an offline process on a separate staging server.

Plugin Settings will be moved from the config.xml to the SQL database

As of Crucible 3.1.0, plugin settings which were previously stored in the <properties> element inside config.xml will be stored in the SQL database. This includes settings for any bundled plugins such as ApplicationLinks, the UniversalPluginManager etc, and any 3rd party plugins.

An upgrade task is run on startup which will first insert all the properties found in config.xml into a new table in the SQL database. Once successful, the properties are removed from config.xml.

As part of this change, the RepositoryOptions.setProperties (Map<String, String>properties) and RepositoryOptions.getProperties() methods have been removed from our API. If you are using a plugin which uses either of these methods, you will need to update the plugin to a version which uses the Spring component PluginSettingsFactory. Plugins can use this to access the migrated global and per-repository properties that were previously available via the old RepositoryOptions API.

Known issues for Crucible 3.1

Type	Key	Summary	Status
	CRUC-6567	Perforce native SCM management get branches completely wrong	Open
	CRUC-6521	File creation is not displayed as change	Open

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	CRUC-6596	Resolving long content hashes from short content hashes in git patches goes over the whole contentHashDB for each hash in patch	Open
	CRUC-6553	Upgrade to 3.0.x may fail if there are unprocessed cru_feindex_msg rows	Open
	CRUC-6550	Code Review UI real estate misallocation	Open
	CRUC-6528	User still suggested for review after disabling for him Crucible	Open
	CRUC-6520	If the P4DIFF environment variable is set, the crucible.py review tool might not be able to get the patch properly	Open
	CRUC-6487	ConstraintViolationException: could not insert: [com.cenqua.crucible.model.CommentReadStatus]	Open
	CRUC-6470	Inline issue creation: when not logged in to Crucible the review comment icon is not fetched	Open
	CRUC-6447	Providing s FishEye licence does not allow repositories to be started until FishEye itself has been stopped and started	Open

Authenticate to retrieve your issues

Upgrading to Crucible 3.0

Please also see the Upgrade steps section above.

Please note the following changes in Crucible 3.0:

Jetty 8

Crucible 3.0 now uses Jetty 8 as its web server and Java servelet container. This change should be completely transparent when you upgrade to Crucible 3.0. However, if you have customised either your `jetty-web.xml` file, or the `maxFormContentSize` system property, you will need to update those in the new version. See Enabling Access Logging in FishEye and this FishEye KB page for more information.

Infinity DB

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Crucible 3.0 now uses the InfinityDB 3.0 database internally to provide improved performance for concurrent access to Crucible. This change is transparent to users in all respects.

Pipelined indexing

Crucible 3.0 introduces a new indexing approach that splits the repository indexing process into separate tasks that can be performed in a phased and concurrent way. Users will benefit from the way in which Crucible functionality, such as review creation, now becomes available as indexing progresses. This change is transparent to users in all other respects. See Pipelined indexing.

Improved handling of user preferences with session cookies

Upgrading may result in some users losing their preferences.

SQL Server transaction isolation configuration

We recommend a configuration change for SQL Server to use snapshot mode for the transaction isolation level – see Migrating to SQL Server. This change avoids occasional database deadlocks, and prevents performance warning messages in the logs and admin screens.

Known issues for Crucible 3.0

Type	Key	Summary	Status
	CRUC-6567	Perforce native SCM management get branches completely wrong	Open
	CRUC-6521	File creation is not displayed as change	Open
	CRUC-6596	Resolving long content hashes from short content hashes in git patches goes over the whole contentHashDB for each hash in patch	Open
	CRUC-6553	Upgrade to 3.0.x may fail if there are unprocessed cru_feindex_msg rows	Open
	CRUC-6550	Code Review UI real estate misallocation	Open
	CRUC-6528	User still suggested for review after disabling for him Crucible	Open
	CRUC-6520	If the P4DIFF environment variable is set, the crucible.py review tool might not be able to get the patch properly	Open
	CRUC-6487	ConstraintViolationException: could not insert: [com.cenqua.crucible.model.CommentReadStatus]	Open

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	CRUC-6470	Inline issue creation: when not logged in to Crucible the review comment icon is not fetched	Open
	CRUC-6447	Providing s FishEye licence does not allow repositories to be started until FishEye itself has been stopped and started	Open

Authenticate to retrieve your issues

Checking for known issues and troubleshooting the Crucible upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues**. Sometimes we find out about a problem with the latest version of Crucible after we have released the software. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the Fisheye and Crucible Known Issues in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to troubleshooting upgrades in the Crucible Knowledge Base.
- If you encounter a problem during the upgrade and cannot solve it, please create a support ticket and one of our support engineers will help you.

Upgrading from FishEye to Crucible

If you have been using FishEye and now want to move to Crucible, you can do this without losing your FishEye repositories.

Read about how your Crucible installation works with FishEye.

`FISHEYE_INST` – this is an environment variable that defines the path to the FishEye data directory, which is used for installations where the FishEye instance data is stored in a separate location from the install (home) directory. Both Crucible and FishEye use this environment variable.

Read more about the `FISHEYE_INST` environment variable.

On this page:

- Upgrade procedure
  - Method 1: Without a FISHEYE_INST directory (default)
  - Method 2: Using a FISHEYE_INST directory
  - Method 3: No FISHEYE_INST directory, but wish to use one
- Initial Crucible configuration

Upgrade procedure

- **We strongly recommend that you make a backup of your data before following one of the methods below**. Refer to making a backup.
- Follow **Method 1** if you have a default configuration and are not using a `FISHEYE_INST` directory (that is, your FishEye binaries and data are all stored under the same location, in the default `<FishEye home directory>`). This is the typical scenario for evaluation installations.

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- Follow **Method 2** below if you have FishEye configured to use a `FISHEYE_INST` directory (that is, your FishEye binaries are stored in the `<FishEye home directory>`, separately from your FishEye data directory, which has a location defined by `FISHEYE_INST`). This is the recommended scenario for production installations.
- Follow **Method 3** if you are not using a `FISHEYE_INST` directory but would now like to start using one. You may wish to do this when configuring an existing installation for a production environment.

Method 1: Without a FISHEYE_INST directory (default)

1. Download Crucible.
2. Extract the new Crucible archive into a directory, which we will refer to as `<Crucible directory>`.
3. Shut down your existing FishEye server, if it is running.
4. Copy `<FishEye home directory>/config.xml` to `<Crucible directory>`.
5. Delete the `<Crucible directory>/var` directory.
6. Copy the `<FishEye home directory>/var` directory to `<Crucible directory>/var`.
7. Follow any version-specific instructions found in the Release Notes.
8. Start Crucible from the new installation by running `<Crucible directory>/bin/run.sh`. (Use `run.bat` on Windows).
9. Follow the initial configuration steps outlined below.

Method 2: Using a FISHEYE_INST directory

1. Shut down your existing FishEye server, if it is running.
2. Make a backup of your `FISHEYE_INST` directory.
3. Download Crucible and unzip the archive into a directory, which we will refer to as `<Crucible directory>`.
4. Leave your `FISHEYE_INST` environment variable set to its existing location. Crucible will use this variable.
5. Start Crucible from the new installation by running `<Crucible directory>/bin/run.sh`. (Use `run.bat` on Windows).
6. Follow the initial configuration steps outlined below.

Method 3: No FISHEYE_INST directory, but wish to use one

1. Shut down your existing FishEye server, if it is running.
2. Create a new directory on your filesystem, then set up a `FISHEYE_INST` environment variable to point to the new directory.
3. Copy the `<FishEye home directory>/config.xml` to the `FISHEYE_INST` directory.
4. Copy the `<FishEye home directory>/var` directory to the `FISHEYE_INST` directory.
5. Download Crucible.
6. Extract the new Crucible archive into a directory such as `<Crucible directory>`.
7. Start Crucible from the new installation by running `<Crucible directory>/bin/run.sh`. (Use `run.bat` on Windows).
8. Follow the initial configuration steps outlined below.
9. If your configuration is not automatically picked up and you cannot see your existing repositories, check your Administration > Sys-Info page, where you will see information about the `<Crucible directory>` and `FISHEYE_INST`. Check that `FISHEYE_INST` is pointing to the correct directory - it should point to the location to where you copied the existing FishEye files in steps 3 and 4 above.

Initial Crucible configuration

1. You can access FishEye immediately by going to `http://HOSTNAME:8060/` in a browser.
2. The first time you run FishEye after upgrading, you must enter your Crucible license key. To do this, update your Crucible license by going to the admin area and clicking **System Info** (under 'System Settings'). Click **Edit License** (under 'License') to enter your Crucible license key. You can view your license key here. The Crucible functionality will be instantly unlocked.
3. If you do not already have user accounts configured, you will need to do this via the Administration screens or by configuring Crucible/FishEye to use external authentication.
   To add users:
   - Open the FishEye Administration screens at `http://HOSTNAME:8060/admin/`.
   - Click **Users/Security** under 'Global Settings' in the admin area.

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Read more details about the different ways of creating users.

4. Crucible can email each review participant on a range of changes. Each user can then set up their own preferences. This is described in the User Profile guide. First, you must set up the SMTP Server.

Crucible 3.1 release notes

27 August 2013

Today we're excited to release Crucible 3.1, which brings you a cleaner and faster interface. We've also added some further JIRA integration points.

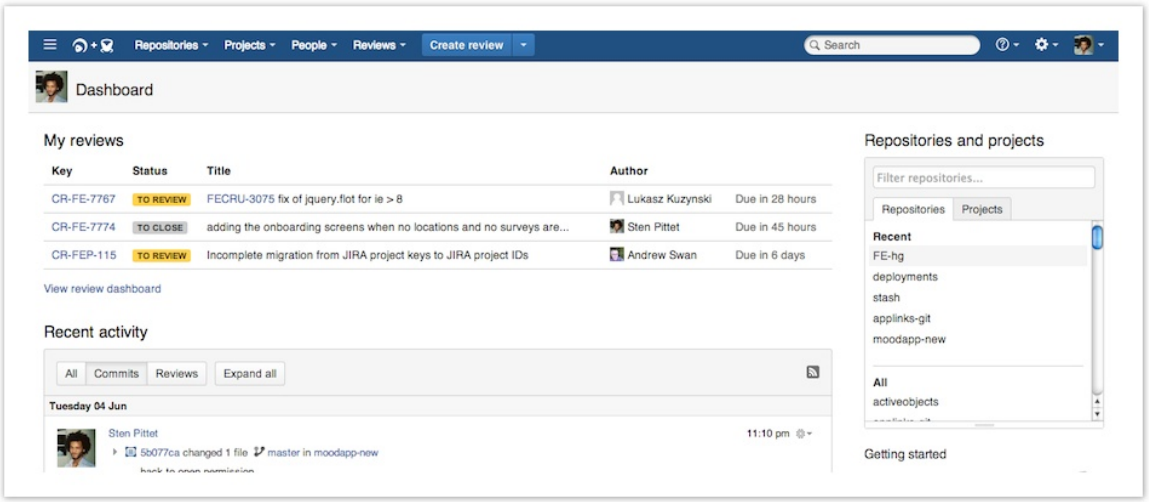
If you are upgrading from an earlier version of Crucible, please read the Crucible upgrade guide. Please also read the End of Support Announcements for Crucible.

The Crucible 3.1 changelog is at the bottom of this page.

Try it for FREE

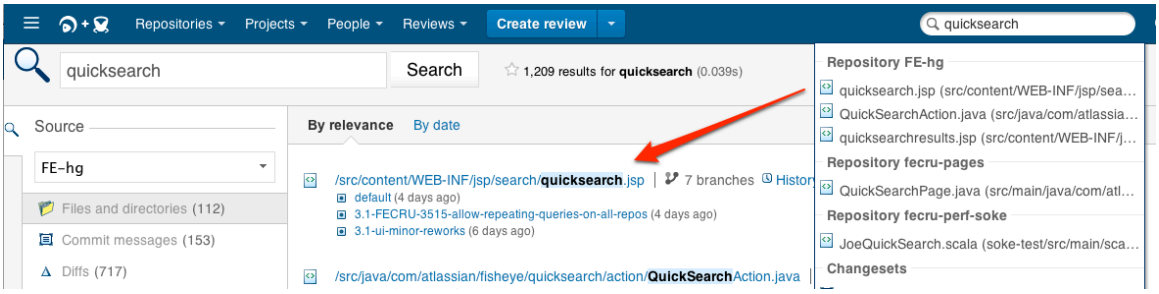
The new Dashboard

Crucible's new dashboard makes your pending reviews the highest priority, putting them right at the top and clearly indicating their urgency. The repository and project navigator lets you jump to your recent content (try pressing Enter as soon as you launch the dashboard), and includes filters and keyboard shortcuts that facilitate navigation, especially when your organisation has hundreds of repositories.



QuickNav and QuickSearch improvements

Previously in Crucible, QuickSearch was limited to searching 100 repositories concurrently. Now, in Crucible 3.1, you can search across files and directories, commit messages, and committers, for every one of your repositories. And it's 40% faster. And you can order search results by date. Furthermore, QuickNav now uses the same indexes as QuickSearch, so it's faster too, and it produces the same results as QuickSearch:



Note that upgrading to Crucible 3.1 requires an upgrade to the cross-repository index. See the Crucible upgrade guide for details.

New JIRA issue dialog

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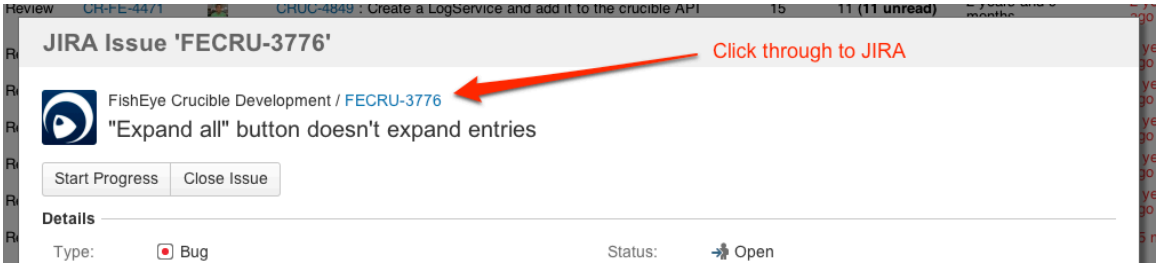
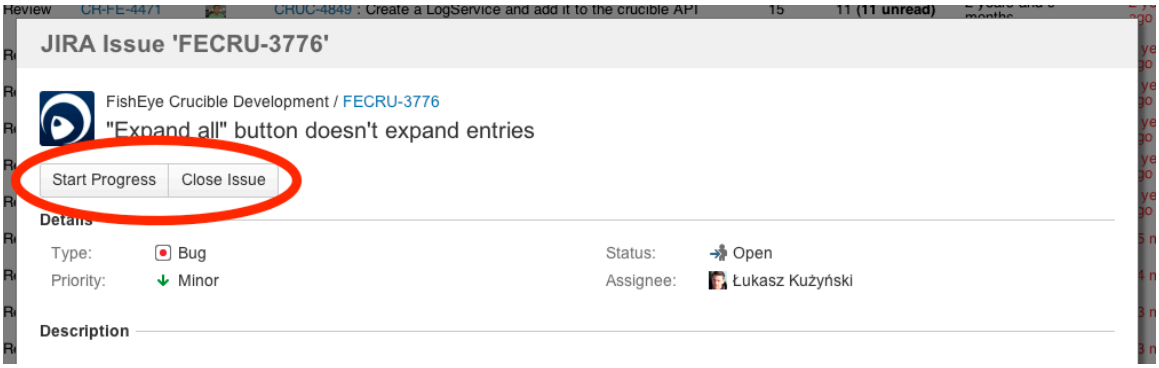
Now, when you click on any linked JIRA issue key in Crucible, you'll see a dialog that displays a summary of the issue details. From that dialog, you can transition the workflow for the issue, and easily click through to edit the issue in JIRA:



Transition JIRA issues from within Crucible

Previously in Crucible, you could transition a JIRA issue linked to a review at the time that you closed the review. Now you can advance the workflow for any JIRA issue mentioned in Crucible at any time, right from within Crucible – just click the issue link to see the transitions available to you:

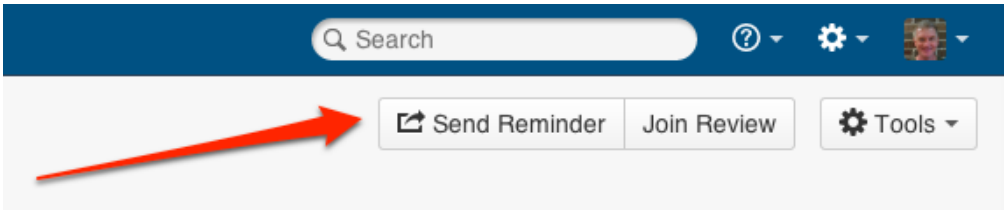


Read more about JIRA issue transitions in Crucible ...

Small improvements

Simplified reminder for overdue reviewers

Alerting reviewers about an overdue review is now a simple 1-click action:



Improved browsing performance

The display of the file source page is now 60% faster in Crucible 3.1.

Native SVN 1.7 support

Crucible 3.1 now supports the native JavaHL 1.7 SVN client. It does not support the native JavaHL 1.6 SVN client. See Native support for SVN 1.7 for more details.

OpenJDK support

Crucible 3.1 now supports OpenJDK 1.7. See Supported platforms for details.

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Change log

This section will contain information about the Crucible 3.1 minor releases as they become available. These releases will be free to all customers with active Crucible software maintenance.

If you are upgrading from an earlier version of Crucible, please read the Crucible upgrade guide.

The issues listed below are just the highlights of all those that have been resolved for the Crucible 3.1.x releases.

17 September 2013 - Crucible 3.1.3

Fixes a bug which can cause review indexing to fail when upgrading from versions prior to 3.0.

Type	Key	Summary
	CRUC-6595	Some Ajax calls never return, eventually timeout with a 502 proxy error

Authenticate to retrieve your issues

11 September 2013 - Crucible 3.1.2

- few XSS security issues addressed

29 August 2013 - Crucible 3.1.1

Type	Key	Summary
	CRUC-6584	Unable to create reviews after upgrade to 3.1

Authenticate to retrieve your issues

27 August 2013 - Crucible 3.1.0

Type	Key	Summary
	CRUC-6384	Allow issue transitions for issues raised in Inline Issue Creation
	CRUC-6530	Remove Crucible Transition error as a warning
	CRUC-6534	Type when starting FishEye/Crucible
	CRUC-6525	upgrade to 3.x release occasionally fails when deduplicating paths in db
	CRUC-6417	Better handling of Authentication Errors when manually linking a Review to a JIRA Issue
	CRUC-6416	Optimize number of database queries for Crucible instances with Many Projects and Permission Schemes

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	CRUC-6339	Send notifications for replies to comments even if the user is not in the review

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Crucible 3.0 release notes

30 May 2013

Today we're excited to release Crucible 3.0, which introduces huge indexing performance gains – especially for Subversion repositories – and significant upgrades to how you perform pre-commit reviews. We think development teams will be able to work faster, every day.

If you are upgrading from an earlier version of Crucible, please read the Crucible upgrade guide.

The Crucible 3.0 changelog is at the bottom of this page.

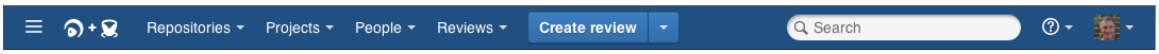
Try it for FREE

Redesigned user experience

We've made a few key design changes to help you work faster with your reviews:

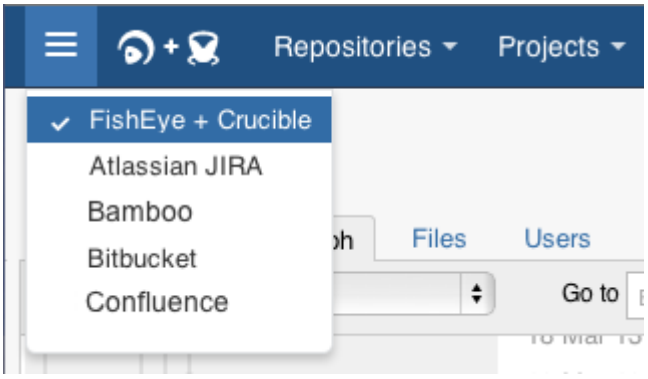
New global header

The new header across the top of the page makes it quicker to access recent repositories, projects, people and reviews, and has the large **Create review** button at top center, right where you can find it.



Application navigator

The new application navigator, at the left of the header, connects you directly to your other applications, such as JIRA and Bamboo. Now you can switch between Crucible and JIRA – or any other Atlassian application – all from the Crucible header. No more bookmarks in your browser; we do the job for you. Admins can easily configure which apps appear in the navigator – just click **Application navigator** in the admin area.



JIRA Reviews tab redesign

We wanted to simplify the experience but still give you the important information you need to make decisions around your issues. We think you'll like it:

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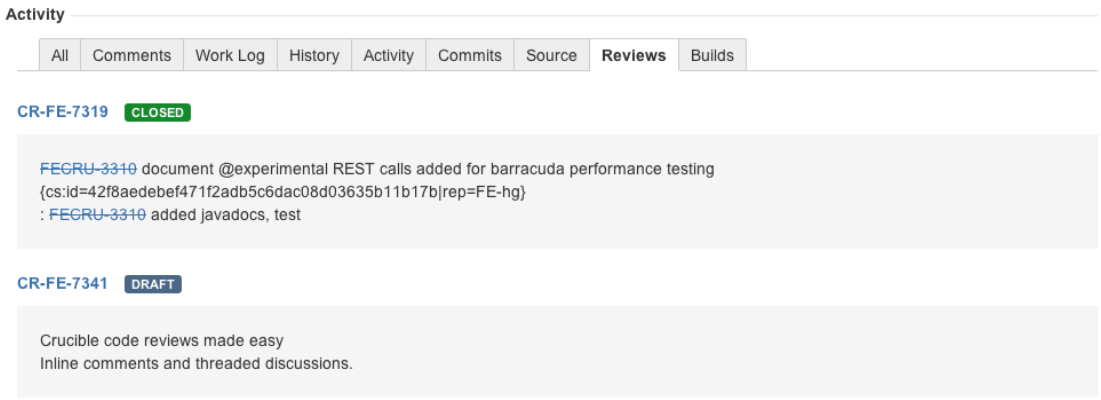

Review CLI tool

Crucible now ships with a command line tool that allows you to quickly create reviews in Crucible directly from your terminal. The tool takes the uncommitted changes in your workspace and creates a review for them in Crucible. You can use the tool to create new reviews, and to update existing pre-commit reviews with new patches. *Read more..*

Iterative pre-commit reviews

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

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

Create reviews sooner for new SVN repositories

We've introduced a new approach that splits the indexing process into separate tasks that can be performed in a phased and concurrent way. This allows you to start using core functionality in Crucible, such as creating reviews, up to 15X sooner than in Crucible 2.10. You can get on with your work, while Crucible quietly completes the fine details of indexing in the background. *Read more...*

Small improvements

Faster browsing for large teams

Crucible now uses the InfinityDB 3.0 internal database to provide faster concurrent access. Your team gets a better browsing experience!

Quicker review creation

We've optimised some SQL statements in Crucible. You spend less time creating, or modifying, reviews.

Better review creation from JIRA when Stash is integrated

We've improved the integration between JIRA and Crucible. Now you can create a review for all the commits related to a JIRA issue, even when Atlassian Stash is integrated with JIRA.

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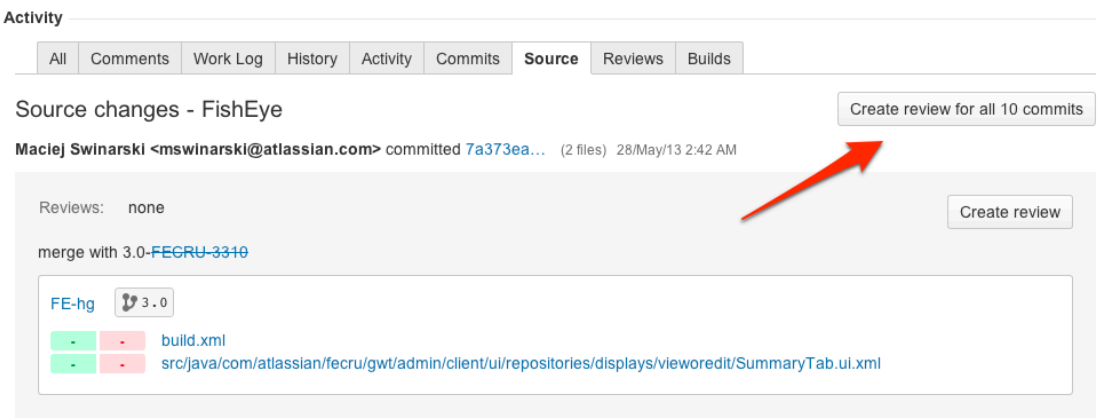

Diff hunk shortcuts

We've changed the 'j' and 'k' keyboard shortcuts to now work with diff hunks when looking at a review, so as to be consistent with their new behaviour in FishEye.

Improved handling of user preferences with session cookies

We've made session cookies more robust, but this may result in your existing preferences being lost at upgrade time.

REST API change

The 'groups-v1' REST endpoint now requires the user to be an administrator – it will fail authentication and return a 403 otherwise. *Read more...*

Change log

This section will contain information about the Crucible 3.0 minor releases as they become available. These releases will be free to all customers with active Crucible software maintenance.

If you are upgrading from an earlier version of Crucible, please read the Crucible upgrade guide.

The issues listed below are just the highlights of all those that have been resolved for the Crucible 3.0.x releases.

23 July 2013 - Crucible 3.0.3

Type	Key	Summary
	CRUC-6556	Error editing permission scheme action containing deleted user
	CRUC-6552	Searching over REST for a JIRA Project key doesnt look at Review Linked Issues
	CRUC-6537	Deleting and recreating projects with keys which differ only in case can cause NonUniqueResultException on Viewing Review

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2 July 2013 - Crucible 3.0.2

Type	Key	Summary

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	CRUC-6503	Crucible upgrade may fail in the middle if DB socket timeout too short
	CRUC-6555	Can't use distinct in queries on tables with CLOB types in Oracle
	CRUC-6504	Review pre-commit tool can fail to include all the lines for an added file with Perforce
	CRUC-6416	Optimize number of database queries for Crucible instances with Many Projects and Permission Schemes

Authenticate to retrieve your issues

6 June 2013 - Crucible 3.0.1

Type	Key	Summary
	CRUC-6491	duplicated null cru_stored_path rows leads to 3.0 upgrade problems

Authenticate to retrieve your issues

28 May 2013 - Crucible 3.0.0

Type	Key	Summary
	CRUC-6434	Add disclaimer that "Create crucible review" is only available with FishEye integration
	CRUC-6414	Update on 'Editing a Project' documentation
	CRUC-6271	Update on Using Gadgets in Crucible documentation
	CRUC-6410	Allow /filter/details to include a date range filter
	CRUC-6361	Change semantics of j/k shortcuts in Crucible, be consistent with the new diff navigation in Fisheye
	CRUC-6394	Crucible Project Repository Link is Broken if Leading Slash Is Omitted
	CRUC-6391	Documentation Update for JIRA Integration
	CRUC-6349	Crucible and FishEye Page Contains Outdated Information

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	CRUC-4518	Crucible regularly hangs and is very slow
	CRUC-2998	Iterative pre-commit reviews
	CRUC-1452	REST API should notify client if session token is invalid
	CRUC-6466	Dismiss barracuda's feature discovery message when it is closed.
	CRUC-6463	Multiple open transactions in idle instance
	CRUC-6454	Scheduled user synchronization doesn't close DB sessions
	CRUC-6412	Stream has already been closed on getting Notifications
	CRUC-6408	URLs in comments with # followed by ! and other characters are not correctly generated.
	CRUC-6398	Unable to link to JIRA issues containg a project key longer than 10 characters, containing underscores _
	CRUC-6395	Inconsistent Repository Links on Project Page
	CRUC-6390	Documentation Update for Smart Commits
	CRUC-6385	An SQLException can corrupt a connection in the connection pool and cause Crucible to became unstable

Authenticate to retrieve your issues

9 more issues

Crucible 2.10 release notes

15 January 2013

With great pleasure, Atlassian presents **Crucible 2.10**, which introduces the best JIRA integration we have ever built.

- See the change log for Crucible 2.10.x minor releases.
- Visit our issue tracker to see the full list of improvements and bug fixes in Crucible and FishEye for this release.
- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the Crucible 2.10 Upgrade Guide for further essential information about your upgrade.
- **Known Issues.** Please check the important technical advisories on the front page of the Knowledge Base for information about any known issues for this release.
- **JIRA 5.0 integration**. The features described below are supported by **JIRA 5.0**, or later, with the latest

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version of the **JIRA FishEye plugin**.

Highlights of this release:

- Inline Issue Creation
- Repository Management REST API
- Repository review creation limit
- Other announcements

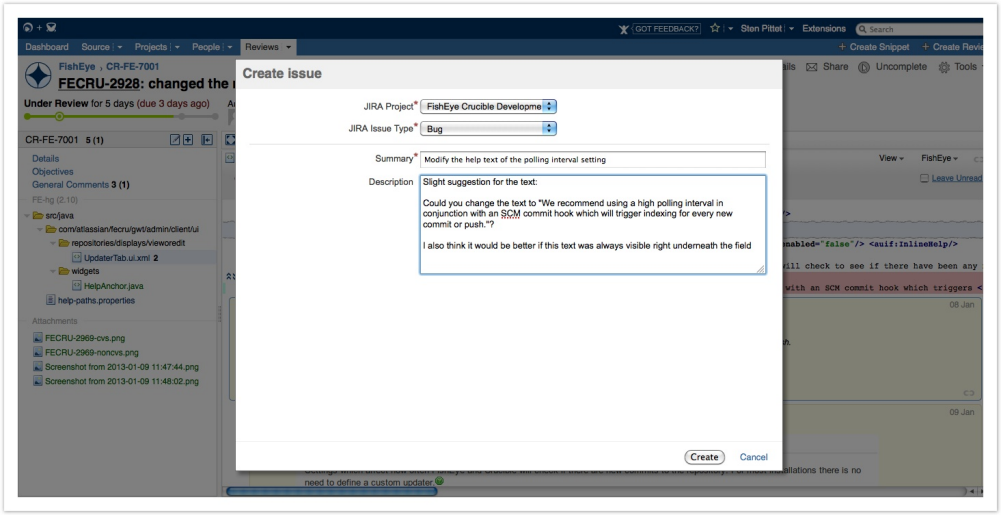
Download

Providing feedback:

Please log your votes and issues. They help us decide what needs doing, and are much appreciated!

Inline Issue Creation

With Crucible 2.10 you can now create any type of issue from your reviews. You only need to link your Crucible and JIRA instances to get it working. Once this is done you can create issues in any JIRA project you have access to.



Repository Management REST API

Crucible 2.10 lets you optimize your instance by using the REST API to trigger indexing when it's necessary. Instead of configuring Crucible to poll each repository every minute, you can add a post-commit or post-receive hook to your repositories which will ping Crucible when new commits need to be indexed.

If your repositories are hosted on Bitbucket or Github you will find corresponding Service Hooks in the settings of your repositories which will do the job for you.

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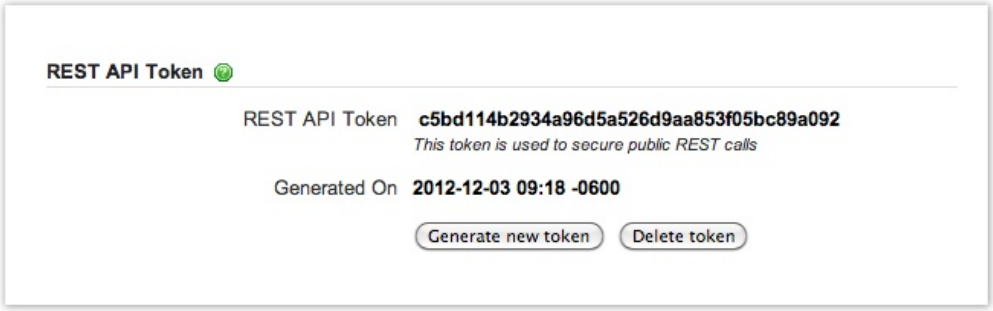

Repository review creation limit

Crucible 2.10 now has a limit to prevent oversized reviews from being created during wrong manipulations. We have set the limit fairly high at 800 file revisions, a number way above the recommended number of files per review. The limit will help to prevent your instance from having performance issues.

Other announcements

- Improved performance of the repositories listing in the administration interface.
- Snippets share the same permission as reviews.
- You can now easily step through the diffs in reviews via shortcuts.

The Crucible 2.10 team

Development

Core team

Brendan Humphreys
Conor MacNeill
Geoff Crain
Lukasz Pater
Maciej Swinarski
Piotr wity wicicki
Richard Stephens
Tom Davies
Valery Trubnikov

Team lead

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Nick Pellow

Product management

Sten Pittet

Project manager

Anton Mazkovoi

Support

Ajay Sridhar
Daniel Rohan
Douglas Fabretti
Felipe Kraemer
Gurleen Anand
Kah Loun Foong
Leonardo Macedo
Malik Mangier
Patrick Hill
Renan Battaglin
Rene Verschoor
Ricardo Martins

Others

Product marketing

Giancarlo Lionetti

Quality assurance

George Filippoff
Mark Hrynczak

Technical writing

Paul Watson

Operations

James Fleming

Crucible 2.10 changelog

This page contains information about the Crucible 2.10 minor releases. FishEye license holders should also check the FishEye 2.10 Changelog.
See the Crucible 2.10 release notes for details of what's new in 2.10.

⚠ Please read the Crucible 2.10 Upgrade Guide before upgrading to any of the minor releases below.

17 July 2013 - Crucible 2.10.7

Type	Key	Summary	Status
	CRUC-6555	Can't use distinct in queries on tables with CLOB types in Oracle	Closed

ⓘ Authenticate to retrieve your issues

05 July 2013 - Crucible 2.10.6

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Type	Key	Summary	Status
	CRUC-6416	Optimize number of database queries for Crucible instances with Many Projects and Permission Schemes	Closed

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06 Jun 2013 - Crucible 2.10.5

Type	Key	Summary	Status
	CRUC-6463	Multiple open transactions in idle instance	Closed

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02 Apr 2013 - Crucible 2.10.4

Type	Key	Summary	Status
	CRUC-6394	Crucible Project Repository Link is Broken if Leading Slash Is Omitted	Closed
	CRUC-6412	Stream has already been closed on getting Notifications	Closed
	CRUC-6408	URLs in comments with # followed by ! and other characters are not correctly generated.	Closed
	CRUC-6395	Inconsistent Repository Links on Project Page	Closed
	CRUC-5238	URLs with # in comments do not render properly	Closed
	CRUC-2747	Review details says "Reviewer is 100% complete" when she hasn't completed the review	Closed

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19 Mar 2013 - Crucible 2.10.3

Type	Key	Summary	Status

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	CRUC-6398	Unable to link to JIRA issues containg a project key longer than 10 characters, containing underscores _	Closed

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25 Feb 2013 - Crucible 2.10.2

Type	Key	Summary	Status
	CRUC-6385	An SQLException can corrupt a connection in the connection pool and cause Crucible to became unstable	Closed
	CRUC-6383	Inline Issue Creation doesn't remember the last issue type selected	Closed
	CRUC-6380	Reinstate the Star/Favourite link for comments	Closed
	CRUC-6350	JIRA errors being displayed inline on review comments	Closed
	CRUC-6345	Can not remove reviewers in IE	Closed
	CRUC-6268	When creating issue from comment summary put by the user gets lost on JIRA/project change	Closed
	CRUC-6246	User hovers are broken in IE9 (and probably 8 and 10 as well)	Closed

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29 Jan 2013 - Crucible 2.10.1

Type	Key	Summary	Status
	CRUC-6274	Update Add Comments related Crucible document	Closed
	CRUC-6344	Change Inline Issue Creation upgrade task warning	Closed
	CRUC-6342	LazyInitializationExcepti on during indexing of repositories containing	Closed

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		Changeset Comments	
	CRUC-6333	IIC Plugin makes unneeded AJAX requests on pages other than the review page	Closed

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15 Jan 2013 - Crucible 2.10.0

Type	Key	Summary	Status
	CRUC-6282	If an Entity Link is present between a JIRA Project and a Crucible Project, then a review created from the JIRA Source Tab should default to the entity linked Crucible Project.	Closed
	CRUC-6351	Managing Add-Ons Page Refers to Add-On That Is Not Compatible With Latest Versions	Closed
	CRUC-6143	When Creating Jira Issues From a Code Review Provide Capability to Handle REQUIRED Fields	Closed
	CRUC-6031	Need keyboard shortcuts for moving to previous, current, and next diff.	Closed
	CRUC-5847	The Graph should display % and also value.	Closed
	CRUC-5628	Add Ability to Limit Number and/or Size of Crucible Reviews	Closed
	CRUC-6267	No success/error notification when creating JIRA issue directly from comment	Closed
	CRUC-6266	Smart commit plugin does not handle multi-line commit messages	Closed
	CRUC-6259	Share review user suggestion contain deleted user	Closed
	CRUC-6249	There is no pre-load handling for next diff?	Closed

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	CRUC-6248	Double infinite spinner, what does it mean?	Closed
	CRUC-6210	Deleted users are appearing in reviewer, moderator dropdown	Closed
	CRUC-6142	"Edit Review Details" end sometimes in "The server is not responding" but the server is ok	Closed
	CRUC-6072	FeCru REST API docs don't provide description of the XML tags.	Closed
	CRUC-6038	Error creating subtask in JIRA: com.atlassian.jira.rpc.exception.RemotePermissionException: This issue does not exist or you don't have permission to view it.	Closed
	CRUC-5716	GWT error when navigating away from loading page	Closed
	CRUC-5666	Snippet review link is displayed even if user doesn't have permission to create a review in any project	Closed
	CRUC-2667	Not able to create the subtask in JIRA if some of the fields are required in the subtask creation screen	Closed
	CRUC-2202	NPE thrown when trying to change project key	Closed

Authenticate to retrieve your issues

Crucible 2.10 upgrade guide

Please refer to the FishEye 2.10 upgrade guide for important notes on upgrading to Crucible 2.10.

For details of the new features and improvements in this release, please read the Crucible 2.10 Release Notes.

Upgrading to Crucible 2.10

Crucible Subtask Creation has been deprecated

If you are currently using issue subtask creation please read the following section.

Click here to expand...

We have improved JIRA issue creation from Crucible with a feature called Inline Issue Creation. It uses JIRA

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APIs introduced in JIRA 5.0, so it is not compatible with earlier versions. It also has some changed behaviour from the old "Crucible Subtask Creation".

If you are using JIRA 4.4 or earlier

The new feature will not be compatible with your JIRA version. You can revert back to the old behaviour if you want to continue being able to create Crucible subtasks from review comments.

Disabling of the plugin should be automatic on upgrade. Crucible will poll your linked JIRA servers to check their version. If a version earlier than JIRA 5.0 is detected, the 'Inline Issue Creation' plugin will be disabled.

If the plugin is not disabled you can revert to the old behaviour by clicking **Manage Add-ons,** under 'System Settings' in the Admin area. Click **Show system plugins**, find the 'Inline Issue Creation' plugin, and disable it. When you upgrade your JIRA server, you can come back here to re-enable the plugin.

If you are using JIRA 5.0 or later

Removed functionality:

- The ability to "Resolve" after the issue has been created has been removed. Users will now have to transition issues via the JIRA interface.
- Existing subtasks that have been created will still be visible, however you will not be able to resolve them.

New functionality:

- We now support various required fields, both built-in and custom field types.

- There is no longer any configuration required, except for the Application Link to JIRA.
- We now support 'normal' (non-subtask) issue creation, users can choose what Project and Issue Type to create in, and we support various required fields.
- There is now a report at the top of the review for all issues created.
- There is now a Remote Issue Link from the JIRA issue back to the comment.
    - Note that Issue Linking can be disabled in JIRA.
    - The user creating the issue must have the permission to create Remote Issue Links.
    - The latest version of the JIRA FishEye Plugin will hide these links from users without the View Source permission.

Crucible 2.9 release notes

14 November 2012

With great pleasure, Atlassian presents **Crucible 2.9**, which introduces the best JIRA integration we have ever built.

- See the change log for Crucible 2.9.x minor releases.
- Visit our issue tracker to see the full list of improvements and bug fixes in Crucible and FishEye for this release.
- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the Crucible 2.9 Upgrade Guide for further essential information about your upgrade.
- **Known Issues.** Please check the important technical advisories on the front page of the Knowledge Base for information about any known issues for this release.
- **JIRA 5.0 integration**. The features described below are supported by **JIRA 5.0**, or later, with the latest version of the **JIRA FishEye plugin** .

Highlights of this release:

- Simpler JIRA integration
- Better performance of the Reviews tab in JIRA
- Faster review creation for large teams
- Other announcements

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Download

Providing feedback:

Please log your votes and issues . They help us decide what needs doing, and are much appreciated!

Simpler JIRA integration

With Crucible 2.9, linking your instance to JIRA is as simple as Plug & Play. As soon as you create an Application Link between your JIRA server and your Crucible instance, you get all the power of the JIRA / Crucible integration:

- See in JIRA the list of reviews corresponding to a specific issue
- Navigate to the related review from your issue page
- Get the JIRA data corresponding to issues mentioned in your review comments, titles and objectives

You no longer need to create and maintain multiple links between projects in JIRA and projects in Crucible. Maintaining your JIRA / Crucible integration has never been simpler! *More...*

Better performance of the Reviews tab in JIRA

When we changed the implementation of the Crucible / JIRA integration we also improved the performance of the Reviews Tab display in JIRA. You will see your reviews in JIRA faster, even without having to create any links between your JIRA project and your Crucible repositories. In other words, with Crucible 2.9 you spend less time administering your instance, while your users get all the relevant content in JIRA in a better way than before.

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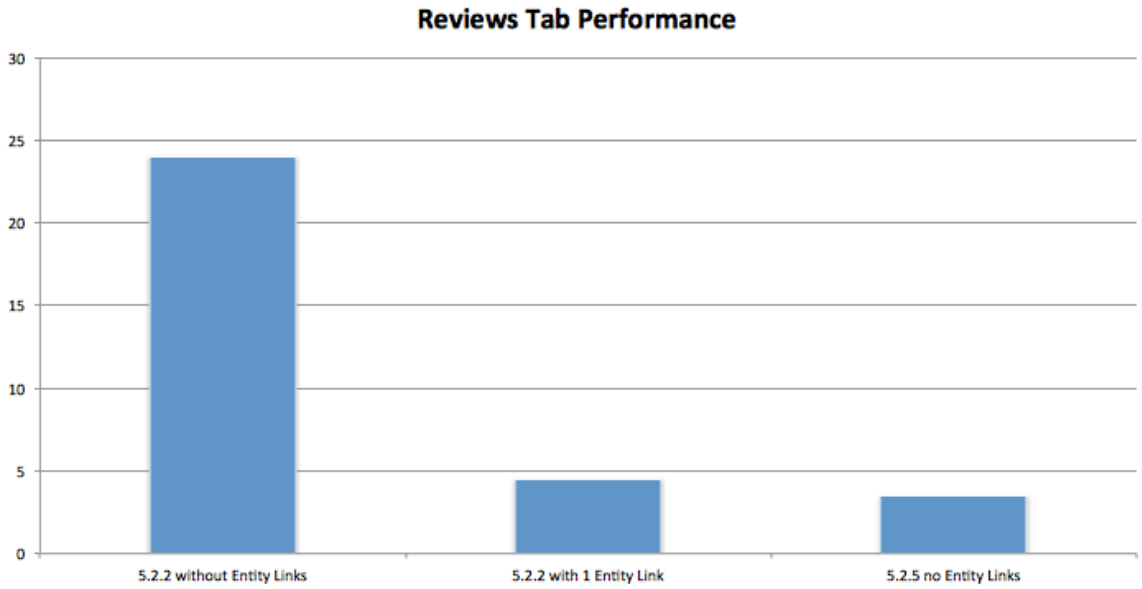
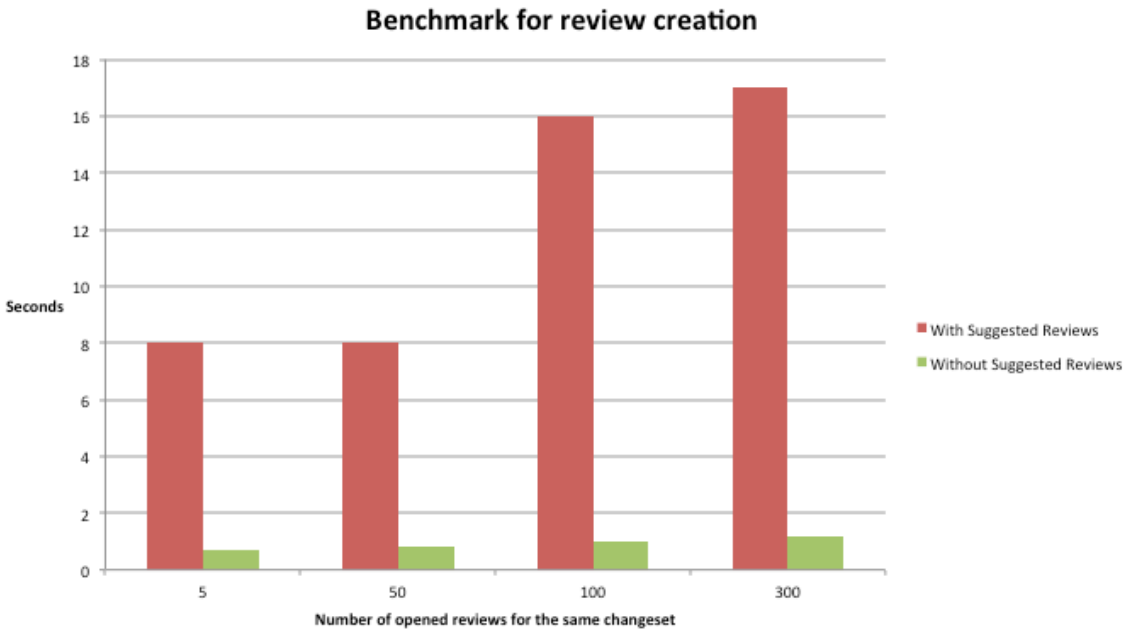


Faster review creation for large teams

Crucible is a tool that is built to help organizations and distributed teams perform code reviews. When you have large teams you can find that you always have a large number of reviews waiting to be closed. Prior to Crucible 2.9, this could slow down the review creation process because Crucible looked for other reviews where changesets might have been included.

With Crucible 2.9 we have removed the Suggested Reviews step during review creation. Not only does this accelerate the process, but it also ensures that performance of the whole Crucible instance is not impacted by a single process. The chart below shows the performance improvement we have seen from this modification.



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Other announcements

- **Suggested reviews removed**
  As described above, we have removed the suggested reviews step during review creation, to improve Crucible performance and to ensure that review creation never interferes with the responsiveness of your Crucible instance.
- **Remote API setting always on**
  We have removed the Remote API setting from the Server Settings page. From this release onwards, Remote APIs are always accessible, which helps to make the JIRA integration straightforward.
- **Changes to the JIRA settings dialog**
  - *Allow Time Tracking Submission* is no longer a configurable option. Users are always able to submit time for their reviews when the JIRA integration is set up.
  - We have simplified permissions by removing the *Disable for Unmapped Projects* setting. All permissions to view the reviews tab are now controlled by the Project permission settings in JIRA.
  - *Force Project Mappings* has been removed as part of simplifying the JIRA FishEye Plugin behavior. Project links are respected, and act as restrictions on the integration.
  - *Max review age* is now only applied to versions of Crucible prior to 2.9.0.
- **Changes to the diff view in reviews**
  In order to facilitate the review process and give a clearer interface to see all the modifications and comments on a particular file we are now showing one file at a time in the reviews. You can use the file tree or the keyboard shortcuts to navigate between files.

The Crucible 2.9 team

Development

Core team

Brendan Humphreys
Conor MacNeill
Geoff Crain
Lukasz Pater
Maciej Swinarski
Piotr wity wicicki
Richard Stephens
Tom Davies
Valery Trubnikov

Team lead

Nick Pellow

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Product management

Sten Pittet

Project manager

Anton Mazkovoi

Support

Ajay Sridhar
Daniel Rohan
Douglas Fabretti
Felipe Kraemer
Gurleen Anand
Kah Loun Foong
Leonardo Macedo
Malik Mangier
Patrick Hill
Renan Battaglin
Rene Verschoor
Ricardo Martins

Others

Product marketing

Giancarlo Lionetti

Quality assurance

George Filippoff

Technical writing

Paul Watson

Operations

James Fleming

Crucible 2.9 changelog

This page contains information about the Crucible 2.9 minor releases. FishEye license holders should also check the FishEye 2.9 Changelog.
See the Crucible 2.9 release notes for details of what's new in 2.9.0.

⚠ Please read the Crucible 2.9 Upgrade Guide before upgrading to any of the minor releases below.

From 2.9.1 to 2.9.2

11 December 2012

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-4392	Svnkit fine logging causes very large debug logs	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↓	Closed	Fixed	Dec 04, 2012	Dec 11, 2012

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	FE-4391	Validation of start-rev in admin is incorrect	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↓	Closed	Fixed	Dec 04, 2012	Dec 11, 2012
	FE-4368	Changeset Comment re-indexing incorrectly uses a threadlocal session.	Brendan Humphreys [Atlassian]	Brendan Humphreys [Atlassian]	↑	Closed	Fixed	Nov 20, 2012	Dec 11, 2012
	FE-4357	Improve the way permissions are handled, as a lot of time is spent in user/repo permission checks, which should be cached	Brendan Humphreys [Atlassian]	Geoff Crain [Atlassian]	↑	Closed	Fixed	Nov 07, 2012	Jun 14, 2013

Authenticate to retrieve your issues

From 2.9.0 to 2.9.1

19 November 2012

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-6279	Next review comment button	Unassigned	Kah Loun Foong [Atlassian]	↓	Closed	Fixed	Nov 21, 2012	Nov 26, 2012

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		does not work							
	CRUC-6272	Crucible calls out to JIRA once per Comment	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]		Closed	Fixed	Nov 13, 2012	Nov 19, 2012

Authenticate to retrieve your issues

Crucible 2.9

14 November 2012

The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-6372	Update doco for "Opening the List of People"	Paul Watson [Atlassian]	Malik Mangier [Atlassian]		Closed	Fixed	Feb 12, 2013	Mar 22, 2013
	CRUC-6351	Managing Add-Ons Page Refers to Add-On That Is Not Compatible With Latest Versions	Unassigned	Ricardo Martins [Atlassian]		Closed	Fixed	Jan 30, 2013	Mar 06, 2013
	CRUC-6163	Display month in a literal format for the due date	Val Trubnikov [Atlassian]	Sten Pittet [Atlassian]		Closed	Fixed	Jul 02, 2012	Sep 13, 2012
	CRUC-6129	Odd and Even rows in	Jeroen De	Robert Massai		Closed	Fixed	May 08, 2012	Oct 26, 2012

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		all tables should have different shading between rows.	Raedt [Atlassian]	oli [Atlassian]						
	CRUC-2752	if backup cant stop one repository, no caches are included	Conor MacNeill [Atlassian]	Geoff Crain [Atlassian]	↓	Closed	Fixed	Nov 20, 2009	Oct 31, 2012
	CRUC-6238	Perforce patches cannot be anchored	Richard Stephens [Atlassian]	Richard Stephens [Atlassian]	↑	Closed	Fixed	Oct 11, 2012	Nov 01, 2012
	CRUC-6231	Gravatar-s avatars dont show	Brendan Humphreys [Atlassian]	Malik Mangier [Atlassian]	↓	Closed	Fixed	Oct 05, 2012	Nov 01, 2012
	CRUC-6204	Dead link on README.html file	Nick Pellow [Atlassian]	Katie Grigoratou [Atlassian]	↑	Closed	Fixed	Aug 31, 2012	Oct 24, 2012
	CRUC-6138	Deadlocks occur in c3p0 GooGoStatementCache when using MS SQL Server	Val Trubnikov [Atlassian]	Tom Davies [Atlassian]	↑	Closed	Fixed	Jun 01, 2012	Nov 05, 2012
	CRUC-6105	Chrome crashe	Maciej Swinarski	Renan Battaglin	↑	Closed	Fixed	Apr 05, 2012	Oct 17, 2012

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		s if during a code review the user navigate using the shortcuts	[Atlassian]	[Atlassian]						
	CRUC-5781	In a Review containing a single Attachment, the 'Go to next element' button causes an infinite Javascript loop	Maciej Swinarski [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	Jun 01, 2011	Oct 23, 2012
	CRUC-5731	No entity exists with key ${helper.project.key} of type com.atlassian.applinks.api.application.fecru.FishEyeCrucibleProjectEntityType	Geoff Crain [Atlassian]	Felipe Kraemer [Atlassian]		Closed	Fixed	Apr 18, 2011	Oct 28, 2012

Authenticate to retrieve your issues

Crucible 2.9 upgrade guide

Please refer to the FishEye 2.9 upgrade guide for important notes on upgrading to Crucible 2.9.

For details of the new features and improvements in this release, please read the Crucible 2.9 Release Notes.

Crucible 2.8 Release Notes

15 August 2012

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With great pleasure, Atlassian presents **Crucible 2.8**, introducing social features and performance improvements.

See the change log for Crucible 2.8.x minor releases.

Visit our issue tracker to see the full list of improvements and bug fixes in Crucible and FishEye for this release.

- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the Crucible 2.8 Upgrade Guide for further essential information about your upgrade.
- **Known Issues.** Please check the important technical advisories on the front page of the Knowledge Base for information about any known issues for this release.

Highlights of this release:

- Mentions
- Shares
- Improved performance for the projects listing
- Support for Subversion 1.7
- End of life announcements

Download

Providing feedback:

Please log your votes and issues. They help us decide what needs doing, and are much appreciated!

Mentions

In Crucible 2.8 you can use mentions to notify other users in the changeset discussions, review comments and snippet comments. Simply type @ and the name of the person you would like to notify to create a mention.

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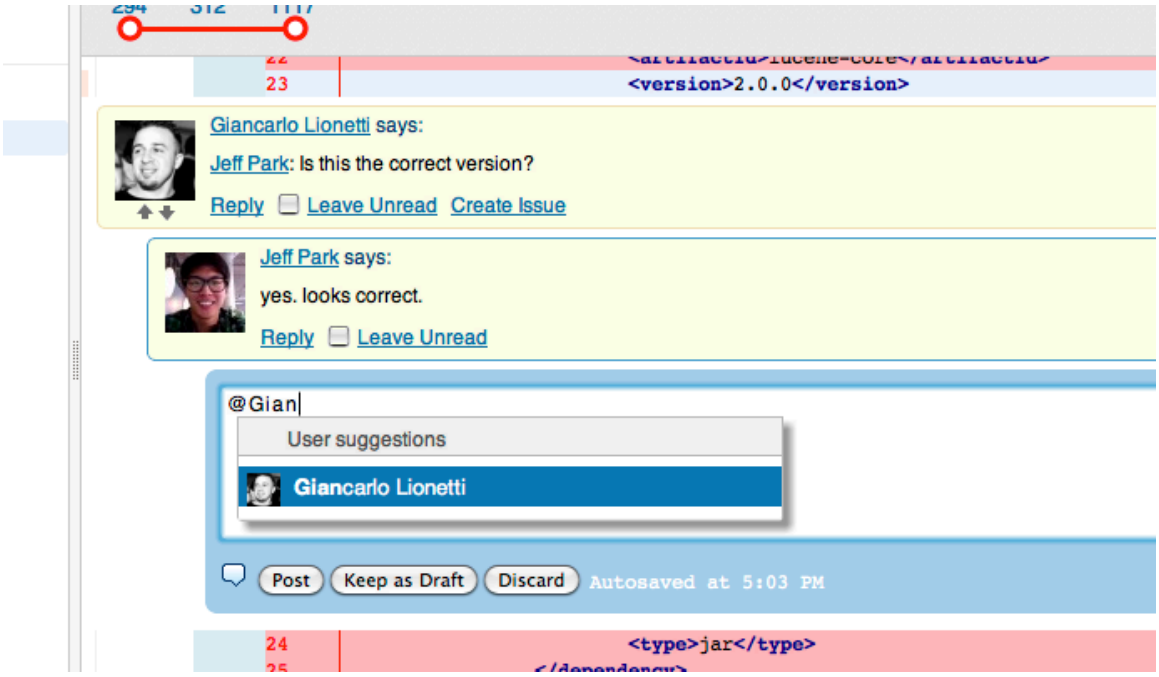
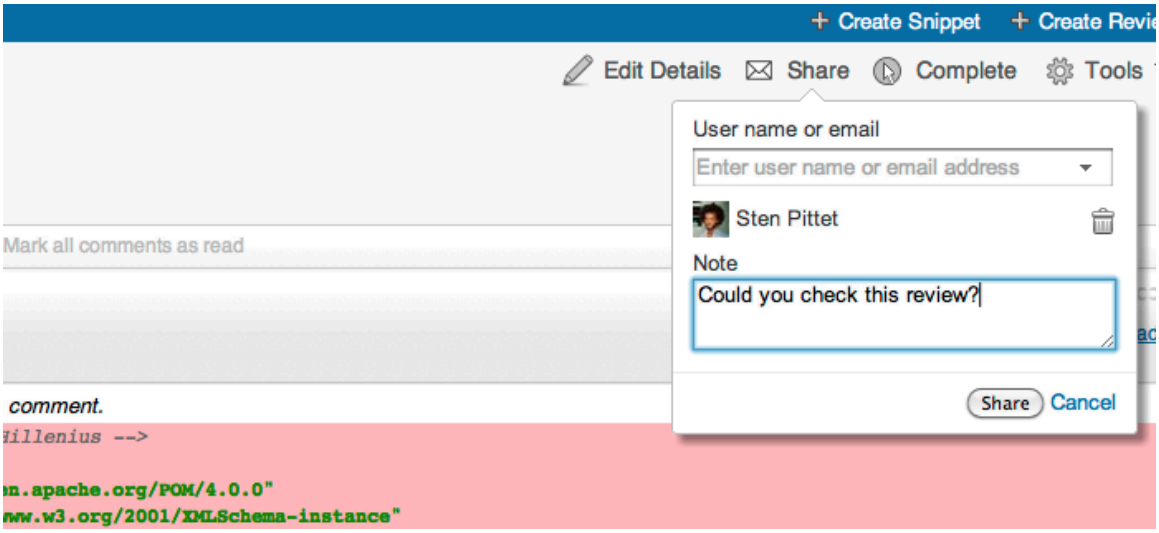


2

Shares

You can now share reviews with other users of Crucible as well as external people via their email. Sharing Crucible content has never been easier.



3

Improved performance for the projects listing

We improved the rendering performance of the projects listing in Crucible.

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Support for Subversion 1.7

Crucible now supports Subversion 1.7.

End of life announcements

As announced earlier, support for IBM ClearCase repositories has been removed in Crucible 2.8.

The Crucible 2.8 team

Development

Core team

Geoff Crain
Tom Davies
Brendan Humphreys
Conor MacNeill
Richard Stephens

Team lead

Nick Pellow

Product management

Sten Pittet

Project manager

Anton Mazkovoi

Support

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Ajay Sridhar
Armen Khachatryan
Daniel Rohan
Douglas Fabretti
Felipe Kraemer
Gurleen Anand
Renan Battaglin
Rene Verschoor
Malik Mangier

Others

Product marketing

Giancarlo Lionetti
Jeff Park

Quality assurance

George Filippoff

Technical writing

Paul Watson

Operations

James Fleming

Crucible 2.8 Changelog

This page contains information about the Crucible 2.8 minor releases. FishEye license holders should also check the FishEye 2.8 Changelog.
See the Crucible 2.8 Release Notes for details of what's new in 2.8.0.

⚠ Please read the Crucible 2.8 Upgrade Guide before upgrading to any of the minor releases below.

On this page:

- From 2.8.1 to 2.8.2
- From 2.8.0 to 2.8.1
- Crucible 2.8

From 2.8.1 to 2.8.2

5 October 2012

This is a FishEye bug fix release.

From 2.8.0 to 2.8.1

29 August 2012

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-6203	Notifications/Shares don't work if Oracle is being used.	Geoff Crain [Atlassian]	Renan Battaglin [Atlassian]		Closed	Fixed	Aug 28, 2012	Mar 12, 2013

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	CRUC-6200	Missing Attachment Upload Item's cause NullPointerException when viewing a Review which has inline comments on the missing attachment	Geoff Crain [Atlassian]	Nick Pellow [Atlassian]		Closed	Fixed	Aug 27, 2012	Aug 29, 2012

Authenticate to retrieve your issues

Crucible 2.8

15 August 2012

The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-6156	Test upgrade from 2.7 to 2.8 on all Supported DBs	Unassigned	Nick Pellow [Atlassian]		Closed	Fixed	Jun 21, 2012	Jul 02, 2012
	CRUC-6104	Allow sharing reviews using emails or account	Unassigned	Felipe Kraemer [Atlassian]		Closed	Fixed	Apr 04, 2012	Aug 13, 2012
	CRUC-5146	show last indexed time of a repository	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]		Closed	Fixed	Dec 12, 2010	May 09, 2012

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	CRUC-6188	Crucible privilege escalation vulnerability	Vitaly Osipov [Atlassian]	Paul Watson [Atlassian]	↑	Closed	Fixed	Aug 10, 2012	Aug 16, 2013
	CRUC-6168	A null review participant causes review indexing to fail partway through the set of reviews	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↓	Closed	Fixed	Jul 10, 2012	Sep 27, 2012
	CRUC-6166	Setup Func Tests are failing under JDK 1.7	Geoff Crain [Atlassian]	Nick Pellow [Atlassian]	↑	Closed	Fixed	Jul 06, 2012	Jul 09, 2012
	CRUC-6162	Investigate why Crucible seems to auto-save always exactly when you go to post a comment.	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]	↑	Closed	Fixed	Jul 02, 2012	May 02, 2013
	CRUC-6157	Re-indexing crucible can cause a NullPointerException if LogItem table	Richard Stephens [Atlassian]	Richard Stephens [Atlassian]	↓	Closed	Fixed	Jun 22, 2012	Jul 09, 2012

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		contains references to non-existant users							
	CRUC-6151	Fix performance issues caused by Lower and Upper DB functions	Geoff Crain [Atlassian]	Renan Battaglin [Atlassian]	↓	Closed	Fixed	Jun 18, 2012	Jul 03, 2012
	CRUC-6149	Update supported platforms now that Clearcase is no longer supported	Paul Watson [Atlassian]	Melanie Wright [Atlassian]	↓	Closed	Fixed	Jun 14, 2012	Aug 14, 2012
	CRUC-6132	NPE on manual reminder email if due date is null	Roman Tekhov [Atlassian]	Geoff Crain [Atlassian]	↓	Closed	Fixed	May 23, 2012	Jul 17, 2012
	CRUC-6131	Invalid email notification and inconsistent language	Geoff Crain [Atlassian]	Sean Curtis [Atlassian]	↑	Closed	Fixed	May 17, 2012	Jul 30, 2012
	CRUC-6130	Missing parent on one side of a merge fails indexing process	Brendan Humphreys [Atlassian]	Renan Battaglin [Atlassian]	↓	Closed	Fixed	May 09, 2012	Jul 05, 2012

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	CRUC-5987	LDAP/Crowd Users auto-synced and added as crucible users, exceeding licence limit	Geoff Crain [Atlassian]	Matthew Watson [Atlassian]		Closed	Fixed	Nov 29, 2011	Jun 18, 2012
	CRUC-5845	Whitespace at the end of a pasted patch are stripped off	Tom Davies [Atlassian]	Rene Verschoor [Atlassian]		Closed	Fixed	Jul 26, 2011	Sep 17, 2013
	CRUC-3124	Permission scheme page fails when the username is renamed	Conor MacNeill [Atlassian]	Ming Giet Chong [Atlassian]		Closed	Fixed	Feb 22, 2010	Jun 19, 2012

Authenticate to retrieve your issues

Crucible 2.8 Upgrade Guide

Below are some important notes on upgrading to **Crucible 2.8**. For details of the new features and improvements in this release, please read the Crucible 2.8 Release Notes.

On this page:

- Upgrade Notes
- Upgrade Procedure
- Checking for Known Issues and Troubleshooting the Crucible Upgrade

Related pages:

- Crucible 2.8 Release Notes

Upgrade Notes

Crucible 2.8

- **Crucible 2.8**

  A minor schema change has been made to the Crucible SQL Schema in 2.8. If you need to rollback to an earlier version, you will need to restore from a backup to do so. Be sure to take a backup before you

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upgrade.
Please also be sure to read the End of Life Announcements for FishEye/Crucible 2.8 .

Upgrade Procedure

Before you begin

- Test your upgrades in your test environment before rolling into production.
- Back up your **entire** Crucible instance (see Backing up and restoring Crucible data), i.e.
  - If you are backing up your Crucible instance via the Admin interface, tick all of the '**Include**' checkboxes (e.g. plugins, templates, uploads, SQL database, etc).
  - If you are backing up your Crucible instance using the command-line interface, do not use any exclusion options.

If you are already running a version of Crucible, please refer to the Crucible upgrade guide.

Checking for Known Issues and Troubleshooting the Crucible Upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues**. Sometimes Atlassian finds out about a problem with the latest version of Crucible after the software is released. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check there for known issues, and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to troubleshooting upgrades in the Crucible Knowledge Base.
- If you encounter a problem during the upgrade and cannot solve it, please create a support ticket and one of our support engineers will help you.

Crucible 2.7 Release Notes

7 September 2011
With great pleasure, Atlassian presents **Crucible 2.7** featuring new JIRA Transitions and Review Reminders.

Highlights of this Release:

- JIRA Transitions in Crucible
- Review Reminders
- Small Improvements

- Thank you for all your issues and votes. Keep logging issues to help us keep improving!
- Read the release notices for important information about this release.

Highlights of Crucible 2.7

JIRA Transitions in Crucible

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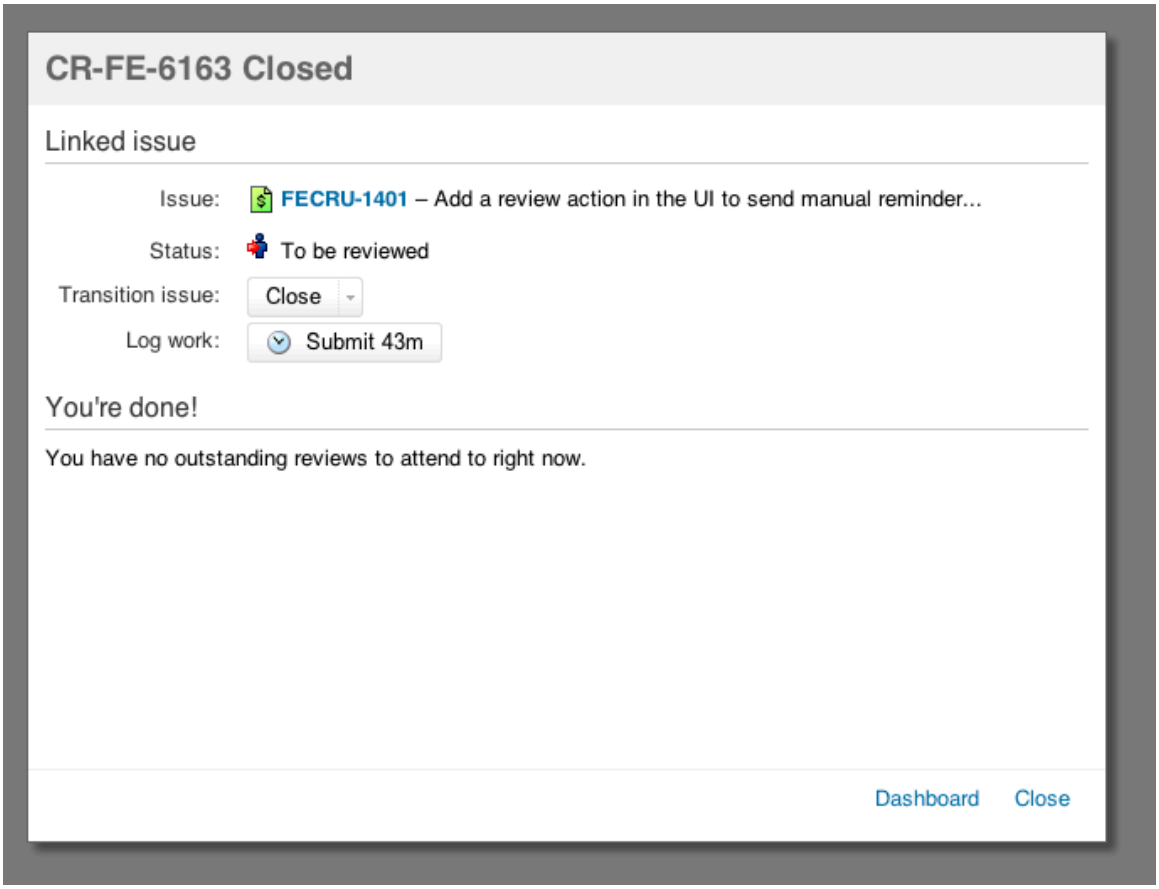
For Crucible reviews that are linked to JIRA issues, you can now transition these JIRA issues through workflow from within Crucible.

After **closing a review**, Crucible will now display any available transitions for the linked JIRA issue.



More...

2

Review Reminders

Crucible will now automatically send reviewers a reminder email one working day before the deadline.

Review authors and moderators can also do the following:

- Send manual reminders to reviewers whose work is still pending.
- Configure preset reminders for reviews that have a deadline.

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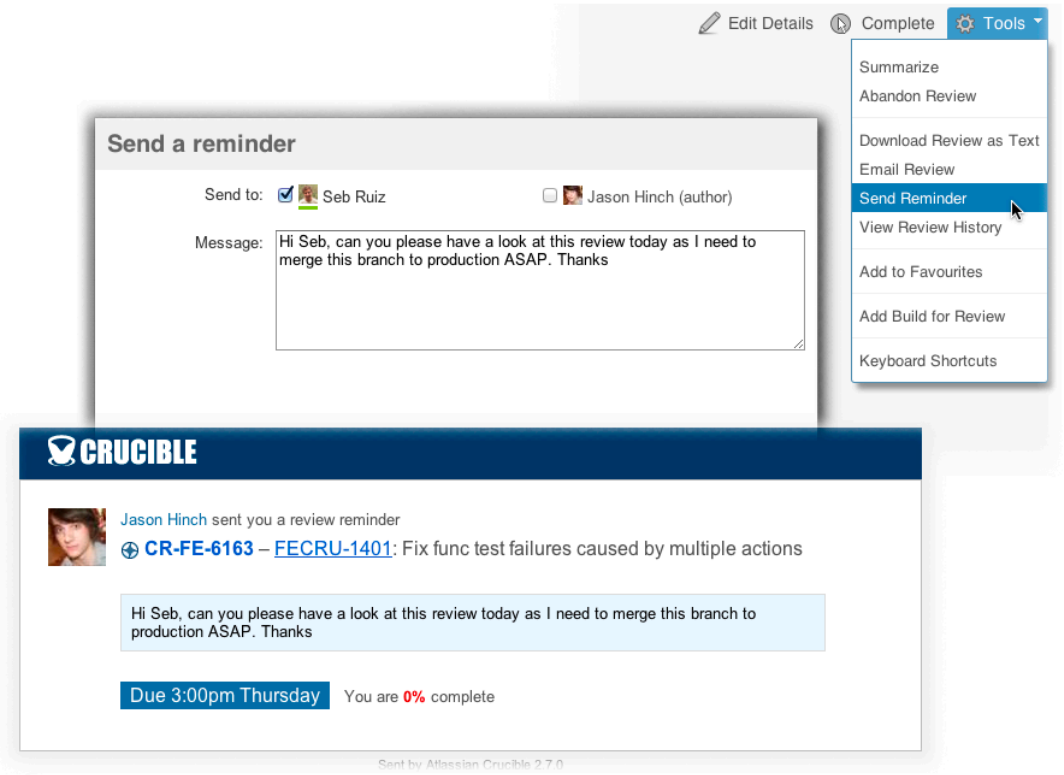

More...

3

Small Improvements

Crucible 2.7 also comes bundled with numerous other bug fixes and improvements, including:

- Syntax highlighting for Java 7, Groovy, Velocity and Scala
- Crucible can now run on Java 7
- Improved user interface for the administration screens
- Improved plugin points for developers

Visit our issue tracker to see the full list of improvements and bug fixes in Crucible and FishEye for this release.

Release Notices

- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the Crucible 2.7 Upgrade Guide for further essential information about your upgrade.
- **Known Issues.** Please check the important technical advisories on the front page of the Knowledge Base for information about any known issues for this release.

Crucible 2.7 Changelog

This page contains information about the Crucible 2.7 minor releases. FishEye license holders should also check the FishEye 2.7 Changelog.
See the Crucible 2.7 Release Notes for details of what's new in 2.7.0.

⚠ Please read the Crucible 2.7 Upgrade Guide before upgrading to any of the minor releases below.

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On this page:

- From 2.7.14 to 2.7.15
- From 2.7.13 to 2.7.14
- From 2.7.12 to 2.7.13
- From 2.7.11 to 2.7.12
- From 2.7.10 to 2.7.11
- From 2.7.9 to 2.7.10
- From 2.7.8 to 2.7.9
- From 2.7.7 to 2.7.8
- From 2.7.6 to 2.7.7
- From 2.7.5 to 2.7.6
- From 2.7.4 to 2.7.5
- From 2.7.3 to 2.7.4
- From 2.7.2 to 2.7.3
- From 2.7.1 to 2.7.2
- From 2.7.0 to 2.7.1

From 2.7.14 to 2.7.15

10 July 2012

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-4087	IllegalArgumentException: No local entity with key 'REPONAME' and type 'class com.atlassian.applinks.application.fecru.FishEyeRepositoryEntityTypeImpl' exists	Geoff Crain [Atlassian]	Nick Pellow [Atlassian]		Closed	Fixed	May 07, 2012	Jul 09, 2012
	FE-4222	FishEye privilege escalation vulnerability	Vitaly Osipov [Atlassian]	Paul Watson [Atlassian]		Closed	Fixed	Aug 09, 2012	Aug 16, 2013
	FE-417	Getting	Unassi	David		Clos	Fixed	Jul 05,	Jul 09,

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	8	"No entity exists with key <REPONAME> of type com.atlassian.applinks.api.application.fecru.FishEyeRepositoryEntityType" editing clicking applinks for a repository	gned	Corley		ed		2012	2012
	FE-4156	Watch Emails throwing exception in certain circumstances	Unassigned	Nick Pellow [Atlassian]		Closed	Fixed	Jun 25, 2012	Feb 18, 2013
	CRUC-6188	Crucible privilege escalation vulnerability	Vitaly Osipov [Atlassian]	Paul Watson [Atlassian]		Closed	Fixed	Aug 10, 2012	Aug 16, 2013
	CRUC-6157	Re-indexing crucible can cause a NullPointerException if LogItem table contains references to non-exi	Richard Stephens [Atlassian]	Richard Stephens [Atlassian]		Closed	Fixed	Jun 22, 2012	Jul 09, 2012

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		stant users							
	CRUC-6136	java.lang.IllegalArgumentException: No local entity with key 'PROJECTNAME' and type 'class com.atlassian.applinks.application.fecru.FishEyeCrucibleProjectEntityTypeImpl' exists	Unassigned	Rene Verschoor [Atlassian]		Closed	Fixed	May 30, 2012	Jul 05, 2012

Authenticate to retrieve your issues

From 2.7.13 to 2.7.14

12 June 2012

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-4119	Missing changesets cause Hg indexing to fail	Unassigned	Tom Davies [Atlassian]		Closed	Fixed	May 30, 2012	May 31, 2012
	FE-4111	If Anon Access is OFF, smart commits that interact with	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]		Closed	Fixed	May 25, 2012	Aug 01, 2012

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		JIRA will not work								
	FE-4106	Fisheye 2.7.13 startup error when FISHEYE_INST have spaces	Nick Pellow [Atlassian]	Leo Leung		Closed	Fixed	May 24, 2012	Jun 08, 2012
	FE-4105	100+ requests of type "updateJiraTimeAjax!default" timing out when modifying Time Spent	Geoff Crain [Atlassian]	Daniel Rohan [Atlassian]		Closed	Fixed	May 24, 2012	Jun 08, 2012
	FE-4103	NPE when indexing git repo with missing ancestor	Tom Davies [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	May 22, 2012	Jun 08, 2012
	CRUC-6107	Error synchronizing users: null	Tom Davies [Atlassian]	Sheppe Pharis		Closed	Fixed	Apr 05, 2012	Jun 13, 2012

Authenticate to retrieve your issues

From 2.7.12 to 2.7.13

21 May 2012

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3961	Emulate	Brendan	Pierre-Etienne		Closed	Fixed	Feb 16, 2012	Aug 20, 2012

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		pre-2.7 behaviour: when an user is created by the user synchronisation, restore any deleted user with the same username	Humphreys [Atlassian]	Poirot [Atlassian]					
	CRUC-6092	Email generated via "Tools -> Email Review" has incorrect comment URLs	Brendan Humphreys [Atlassian]	Sylvia Yee		Resolved	Fixed	Mar 16, 2012	May 18, 2012
	FE-4019	web-server/max-threads increases from 20 to 150	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]		Closed	Fixed	Mar 14, 2012	Nov 18, 2012
	FE-4018	EyeQL Search Results not displaying author fields	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]		Closed	Fixed	Mar 27, 2012	Apr 10, 2012
	FE-4017	Add authenticated user in http response headers for	Brendan Humphreys [Atlassian]	Issa		Closed	Fixed	Mar 26, 2012	Apr 05, 2012

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		logging ability in reverse proxy							
	FE-3989	Allow disabling of precise content Hash to csid mapping	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↓	Closed	Fixed	Mar 09, 2012	May 01, 2012
	FE-3922	Add custom syntax highlighting for shell scripts	Brendan Humphreys [Atlassian]	Eddie Webb	↓	Closed	Fixed	Jan 27, 2012	Nov 07, 2012
	FE-3495	com.atlassian.crowd.exception.OperationFailedException if SSO is enabled with JIRA user management	Brendan Humphreys [Atlassian]	Gurleen Anand [Atlassian]	↑	Closed	Fixed	Jun 14, 2011	Jul 31, 2012
	CRUC-6075	Link to comments from dashboard	Richard Stephens [Atlassian]	Frederik Dinkelaker	↓	Closed	Fixed	Feb 26, 2012	Apr 09, 2012
	CRUC-6017	Allow plugins to detect when a draft comment is published	Richard Stephens [Atlassian]	Olli Nevalainen [Atlassian]	↑	Closed	Fixed	Jan 05, 2012	Apr 17, 2012
	CRUC-6009	Allow plugins to	Brendan Humph	Olli Nevalainen	↑	Closed	Fixed	Dec 22, 2011	Apr 03, 2012

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		detect changes to reviewers or moderator	reys [Atlassian]	[Atlassian]						
	FE-4084	hidden text behind the left navigation panel when using Firefox 12	Unassigned	Leonardo De Macedo [Atlassian]		Closed	Fixed	May 01, 2012	Jun 27, 2012
	FE-4070	Fisheye does not allow username returned by AuthToken to be different from username entered by user	Richard Stephens [Atlassian]	Richard Stephens [Atlassian]		Closed	Fixed	Apr 19, 2012	Apr 30, 2012
	FE-4060	CC Indexing can fetch version 0 and index it even if before the start date.	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]		Closed	Fixed	Apr 17, 2012	Apr 18, 2012
	FE-4044	Lack of usernames element in security config can stop AJPAut	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]		Closed	Fixed	Apr 11, 2012	Apr 16, 2012

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		h working							
	FE-4043	Handle NPE caused by change set without a position value in Commit Graph	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]		Closed	Fixed	Apr 11, 2012	Apr 16, 2012
	FE-4036	P4 GetLatestRevision will fail for paths with no revisions - leads to excessive logging.	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]		Closed	Fixed	Apr 05, 2012	Apr 11, 2012
	FE-4034	Copy from a file which existed before the start-revision is ignored.	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]		Closed	Fixed	Apr 04, 2012	Apr 11, 2012
	FE-4029	Store Perforce Branch Details	Tom Davies [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	Apr 03, 2012	Apr 26, 2012
	FE-4025	Modified port not reflected in startup message of uninitialized	Brendan Humphreys [Atlassian]	Rene Verschoor [Atlassian]		Closed	Fixed	Mar 31, 2012	Apr 04, 2012

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FishEye

Authenticate to retrieve your issues

19 more issues

From 2.7.11 to 2.7.12

16 April 2012

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-4016	FishEye XML Vulnerability	Vitaly Osipov [Atlassian]	Paul Watson [Atlassian]		Closed	Fixed	Mar 26, 2012	Aug 16, 2013
	FE-4001	Perforce branches are unnecessarily, repeatedly, scanned	Tom Davies [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	Mar 15, 2012	Apr 03, 2012
	FE-4000	Corruption of CrossRepository Index Properties	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]		Closed	Fixed	Mar 14, 2012	Mar 22, 2012
	FE-3996	Clearto ol since date format need to be English	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]		Closed	Fixed	Mar 12, 2012	Mar 22, 2012
	FE-3976	ClassCastException on startup on windows	Richard Stephens [Atlassian]	Wannes Geysen		Closed	Fixed	Feb 27, 2012	Apr 11, 2012
	FE-3970	Commit Calendar incorre	Tom Davies [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	Feb 23, 2012	Feb 29, 2012

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		ct for projects including several paths in the same repository							
	FE-3969	The 'Parameters' on the 'Database Configuration' page are ignored.	Tom Davies [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	Feb 22, 2012	Oct 03, 2012

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From 2.7.10 to 2.7.11

27 February 2012

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3941	Add a limit for the number of paths to index to a change set	Matthew Watson [Atlassian]	Matthew Watson [Atlassian]		Closed	Fixed	Feb 09, 2012	Feb 27, 2012
	FE-3937	Add properties to stop branch and tag point ancestry detection for SVN	Matthew Watson [Atlassian]	Matthew Watson [Atlassian]		Closed	Fixed	Feb 08, 2012	Feb 27, 2012

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	FE-3931	Null Pointer Exception com.cenqua.fisheye.rep.impl.CommonFileRevision.setAuthor(CommonFileRevision.java:149)	Brendan Humphreys [Atlassian]	Cardinal Armand du Plessis de Richelieu, First Minister of Louis XIII		Closed	Fixed	Feb 03, 2012	Jan 17, 2013
	FE-3958	Content Indexing: Filter the paths to index before processing the list twice.	Matthew Watson [Atlassian]	Matthew Watson [Atlassian]		Closed	Fixed	Feb 16, 2012	Feb 22, 2012
	FE-3957	Lucene re-index is only triggered for cross-repo until after first commit	Matthew Watson [Atlassian]	Matthew Watson [Atlassian]		Closed	Fixed	Feb 16, 2012	Feb 16, 2012
	FE-3956	Content Indexing: Add an option to only index trunk, not root and trunk	Matthew Watson [Atlassian]	Matthew Watson [Atlassian]		Closed	Fixed	Feb 16, 2012	Feb 27, 2012
	FE-3955	ReIndex: Only delete all the	Matthew	Matthew		Closed	Fixed	Feb 16, 2012	Feb 20, 2012

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		content docs if there are >0 docs in the index	Watson [Atlassian]	Watson [Atlassian]						
	CRUC-6051	Improve performance of the Review Blockers Report plugin	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]		Closed	Fixed	Feb 13, 2012	Feb 23, 2012
	FE-3953	Per user LoC figures are meaningless when the 'All' button is selected	Tom Davies [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	Feb 15, 2012	Feb 16, 2012
	FE-3952	Breadcrumb links on the Users tab are incorrect when a branch is selected	Tom Davies [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	Feb 15, 2012	Feb 15, 2012
	FE-3939	PHP syntax highlighting incorrectly matches keywords at the end of function names	Brendan Humphreys [Atlassian]	Chris Butler		Closed	Fixed	Feb 08, 2012	Feb 08, 2012

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	FE-3934	Changesets with large number of revisions can exhaust heap	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↑	Closed	Fixed	Feb 07, 2012	Feb 27, 2012
	FE-3932	FishEye appears hung on upgrade, till upgrade finishes.	Conor MacNeill [Atlassian]	Matthew Watson [Atlassian]	↑	Closed	Fixed	Feb 06, 2012	Mar 28, 2013
	FE-3921	Fisheye treats files as binary if they used to have a svn:mime-type property, even after the property has been removed	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]	↓	Closed	Fixed	Jan 27, 2012	Feb 23, 2012
	FE-3908	Investigate lib dir containing random JS files and directories. and scmutils.jar is missing.	Unassigned	Nick Pellow [Atlassian]	↓	Closed	Fixed	Jan 22, 2012	Feb 08, 2012
	FE-3905	Upgrade from 2.5->2.	Matthew Watson	Matthew Watson	↑	Closed	Fixed	Jan 20, 2012	Jan 24, 2012

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		7 fires events for all commits and replays all smart commits	[Atlassian]	[Atlassian]						
	FE-3885	Smart Commits: Using the #time command with a complex time format (i.e. 2d 4h) only saves the 2d part	Nick Pellow [Atlassian]	Felipe Cuozzo [Atlassian]		Closed	Fixed	Jan 13, 2012	Jul 23, 2013
	FE-3859	Unable to add users when using IE8	Seb Ruiz [Atlassian]	Felipe Kraemer [Atlassian]		Closed	Fixed	Dec 12, 2011	Nov 08, 2012
	FE-3851	Old broken Support Zip link still present	Brendan Humphreys [Atlassian]	Rene Verschoor [Atlassian]		Closed	Fixed	Dec 02, 2011	Feb 15, 2012
	FE-3608	Issue keys, wrapped in square brackets [JRA-9] are not linked correctly in quick search results	Brendan Humphreys [Atlassian]	Nick Pellow [Atlassian]		Closed	Fixed	Jul 27, 2011	Feb 23, 2012

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5 more issues

From 2.7.9 to 2.7.10

20 January 2012

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3903	Unable to see FishEye activity stream in JIRA Activity Stream gadget on dashboard when have Repository with no description	Unassigned	Matthew Watson [Atlassian]		Closed	Fixed	Jan 19, 2012	Jan 19, 2012
	FE-3902	Issue Transition controls don't appear when closing a review	Unassigned	None		Closed	Fixed	Jan 19, 2012	Jan 19, 2012
	FE-3900	fecru-review-issue-transition-plugin fails under fisheye 2.7.9 due to incompatible class change error	Unassigned	Nick Pellow [Atlassian]		Closed	Fixed	Jan 19, 2012	Jan 19, 2012

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From 2.7.8 to 2.7.9

19 January 2012

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-6027	New parameter to GET /rest-service/projects-v1 to optionally load all user data. If false, ProjectData.getAllowedReviewers will return an empty list	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]		Closed	Fixed	Jan 15, 2012	Jan 18, 2012
	CRUC-5999	Add REST end point for getting the list of groups	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]		Closed	Fixed	Dec 07, 2011	Dec 12, 2011
	FE-3896	FishEye wrongly removes admin privileges for a Crowd group when Crowd is not up when FishEye is starting up	Nick Pellow [Atlassian]	Alex Wei [Atlassian]		Closed	Fixed	Jan 05, 2012	Jan 18, 2012

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	FE-3891	Webwork 2 vulnerability	Vitaly Osipov [Atlassian]	Paul Watson [Atlassian]	↑	Closed	Fixed	Jan 17, 2012	Jan 31, 2012
	FE-3888	FishEye does not correctly handle moved tags	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↑	Closed	Fixed	Jan 16, 2012	Jan 18, 2012
	FE-3884	DefaultUserManager.getUsersInGroup incorrectly acquires a write lock instead of a read lock	Brendan Humphreys [Atlassian]	Brendan Humphreys [Atlassian]	↑	Closed	Fixed	Jan 13, 2012	Jan 13, 2012
	FE-3880	P4 client doesn't handle job names with a leading -	Brendan Humphreys [Atlassian]	Brendan Humphreys [Atlassian]	↑	Closed	Fixed	Jan 09, 2012	Jan 10, 2012
	FE-3878	When processing perforce file revisions, only branch specs that have been added or modified since the last restart are considered	Anna Buttfield [Atlassian]	Anna Buttfield [Atlassian]	↓	Closed	Fixed	Jan 08, 2012	Jan 09, 2012

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	FE-3875	SVN property changes with content lines containing certain strings break diff parsing	Anna Buttfield [Atlassian]	Anna Buttfield [Atlassian]	↓	Closed	Fixed	Jan 04, 2012	Jan 18, 2012
	FE-3862	JS errors in ie8	Anna Buttfield [Atlassian]	Anna Buttfield [Atlassian]	↑	Closed	Fixed	Dec 14, 2011	Jan 18, 2012
	FE-3861	lock mismanagement in Lucene Connection	Brendan Humphreys [Atlassian]	Brendan Humphreys [Atlassian]	↑	Closed	Fixed	Dec 13, 2011	Dec 13, 2011
	FE-3817	Clicking on repository in Fisheye Administration generates error dialog in IE8	Anna Buttfield [Atlassian]	Felipe Kraemer [Atlassian]	↓	Closed	Fixed	Nov 04, 2011	Jan 17, 2012
	FE-3790	Trying to look at the source of an empty file results in java.lang.ArrayIndexOutOfBoundsException - -1	Brendan Humphreys [Atlassian]	Rene Verschoor [Atlassian]	↓	Closed	Fixed	Oct 20, 2011	Dec 23, 2011
	CRUC-6028	Internal avatar on	Anna Buttfield	Brian McKenna	↓	Closed	Fixed	Jan 05, 2012	Jan 18, 2012

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		change set comment is broken	[Atlassian]	[Atlassian]						
	CRUC-6022	getReviewsByIds performs N queries	Brendan Humphreys [Atlassian]	Brendan Humphreys [Atlassian]	↑	Closed	Fixed	Jan 10, 2012	Jan 12, 2012
	CRUC-6013	If during review creation the content of a file revision can't be uploaded (via FishEye), that file is regarded as having no content	Geoff Crain [Atlassian]	Anna Buttfield [Atlassian]	↓	Closed	Fixed	Dec 28, 2011	Aug 28, 2012
	CRUC-6010	Crucible search doesn't deal properly with author user names containing punctuation	Anna Buttfield [Atlassian]	Anna Buttfield [Atlassian]	↓	Closed	Fixed	Dec 22, 2011	Jan 09, 2012
	CRUC-6008	Stopped repositories cause NPEs in crucible reviews	Unassigned	Anna Buttfield [Atlassian]	↑	Closed	Fixed	Dec 22, 2011	Feb 09, 2012
	CRUC-6003	Timelines only work with a	Anna Buttfiel	Eric Dalglieish [Atlassi	↑	Closed	Fixed	Dec 15, 2011	Jan 09, 2012

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		small set of timezones	d [Atlassian]	an] Recovering Bugmaster					
	CRUC-5996	Review creator is unavailable from within ReviewCreatedEvent handler	Nick Pellow [Atlassian]	Adrian Hempel [Atlassian]		Closed	Fixed	Dec 06, 2011	Dec 14, 2011

Authenticate to retrieve your issues

3 more issues

From 2.7.7 to 2.7.8

30 November 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5984	UI improvements to the Edit classification admin screen	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]		Closed	Fixed	Nov 25, 2011	Nov 29, 2011
	CRUC-5968	Allow files with no extension to be treated as text rather than binary	Pierre-Etienne Poirot [Atlassian]	Melanie Wright [Atlassian]		Closed	Fixed	Nov 09, 2011	Nov 29, 2011
	CRUC-5925	In Git, our separation of files by branch can be confusing	Pierre-Etienne Poirot [Atlassian]	Wesley Walser [Atlassian]		Closed	Fixed	Sep 28, 2011	Nov 24, 2011

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	FE-3846	crowd admin groups get removed on startup	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	Closed	Fixed	Nov 28, 2011	Nov 29, 2011
	FE-3842	"Internal Server Error" on jira issue hover	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	Closed	Fixed	Nov 24, 2011	Nov 24, 2011
	FE-3839	autocomplete dropdowns give inconsistent and sometimes wrong results (results missing)	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	Closed	Fixed	Nov 21, 2011	Nov 22, 2011
	FE-3775	Allowed Review Participants field doesn't work when some users are present	Pierre-Etienne Poirot [Atlassian]	Adam Ahmed [Atlassian]	↓	Closed	Fixed	Oct 11, 2011	Nov 29, 2011
	FE-3745	Changing Block Size triggers a reindex + restart, while only a restart is needed	Pierre-Etienne Poirot [Atlassian]	Rene Verschoor [Atlassian]	↑	Closed	Fixed	Sep 26, 2011	Nov 25, 2011
	FE-3040	FishEye	Pierre-Etienne	Felipe Kraem	↓	Closed	Fixed	Apr 27, 2011	Nov 29, 2011

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		Access Logging is not writing the username	Poirot [Atlassian]	er [Atlassian]						
	FE-2473	Cannot find link for downloading latest and greatest RAW revision of a file	Pierre-Etienne Poirot [Atlassian]	David Hergert [Personal]		Closed	Fixed	Feb 19, 2010	Nov 30, 2011
	CRUC-5951	admin.js fails in IE8	Pierre-Etienne Poirot [Atlassian]	Renan Battaglin [Atlassian]		Closed	Fixed	Oct 26, 2011	Nov 08, 2012
	CRUC-5927	Improve behaviour when licence limits are exceeded	Pierre-Etienne Poirot [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	Sep 29, 2011	Nov 30, 2011

Authenticate to retrieve your issues

From 2.7.6 to 2.7.7

21 November 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5962	Internal avatars URL are always generated with HTTP urls, even over SSL	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]		Closed	Fixed	Nov 07, 2011	Nov 10, 2011

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	CRUC-1853	Display preferences menu doesn't disappear when filter menu clicked or menu item is selected	Jonathan Poh [Atlassian]	Seb Ruiz [Atlassian]	↑	Closed	Fixed	Jul 23, 2009	Nov 17, 2011
	FE-3836	In SVN, if a tag is created and the identified parent change set id is not indexed by FishEye the tag won't show up in the branches and tags dropdown or on the commit graph	Anna Buttfield [Atlassian]	Anna Buttfield [Atlassian]	↓	Closed	Fixed	Nov 17, 2011	Nov 18, 2011
	FE-3833	Perforce jobids are not indexed	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↑	Closed	Fixed	Nov 15, 2011	Nov 17, 2011
	FE-3832	Links in RSS feed do not use absolute URLs	Seb Ruiz [Atlassian]	Oleg Semyonov	↓	Closed	Fixed	Nov 15, 2011	Nov 17, 2011
	FE-3826	Jetty log messa	Tom Davies [Atlassi	Tom Davies [Atlassi	↑	Closed	Fixed	Nov 11, 2011	Nov 17, 2011

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		ges are not reported anywhere	an]	an]					
	FE-3822	mime type mapping for file names rather than suffixes removes first character of candidate file name before matching with key filename	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↓	Closed	Fixed	Nov 09, 2011	Nov 17, 2011
	FE-3174	When navigating forward in time in activity stream, items are shown earliest to latest down the page	Michael Studman [Atlassian]	None	↑	Closed	Fixed	Sep 22, 2010	Feb 01, 2012
	FE-3155	Browse /diff menu inactives look active and vice-versa	Jonathan Poh [Atlassian]	None	↓	Closed	Fixed	Dec 13, 2010	Nov 17, 2011
	CRUC-5977	Crucible 'active users'	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↓	Closed	Fixed	Nov 15, 2011	Nov 17, 2011

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		list loaded unnecessarily, making review creation and editing slow								
	CRUC-5972	Side-by-Side Diffs in Crucible are misaligned. Line number columns are very long	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]		Closed	Fixed	Nov 10, 2011	Nov 16, 2011
	CRUC-5957	Code review reply comments saved as draft, are deleted when any reviewer completes review	Michael Studman [Atlassian]	Maggie Reside		Closed	Fixed	Nov 03, 2011	Nov 11, 2011
	CRUC-5932	The side by side diffs displaying display 3 colums instead of 2	Adam Ahmed [Atlassian]	Zed Yap [Atlassian]		Closed	Fixed	Oct 06, 2011	Nov 17, 2011
	CRUC-5828	Crucible links to review comments cut off for	Jonathan Poh [Atlassian]	Gurleen Anand [Atlassian]		Closed	Fixed	Jul 15, 2011	Nov 17, 2011

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		mail notifications in Microsoft Outlook							
	CRUC-5784	Selecting a folder in File browser in FE on IE8 causes content-view tabs to disappear	Jonathan Poh [Atlassian]	Jaie Wilson [Atlassian]		Closed	Fixed	Jun 01, 2011	Nov 14, 2011
	CRUC-5751	Double spinners in Branch selector	Jonathan Poh [Atlassian]	Tim Petterssen [Atlassian]		Closed	Fixed	May 02, 2011	Nov 15, 2011
	CRUC-5326	Add revision popup in review vanishes when not hovered over	Jonathan Poh [Atlassian]	Chris Lam [Atlassian]		Closed	Fixed	Jan 06, 2011	Nov 17, 2011

Authenticate to retrieve your issues

From 2.7.5 to 2.7.6

8 November 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3816	Shutdown the thread pool once the background upgrade tasks have	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]		Closed	Fixed	Nov 04, 2011	Nov 04, 2011

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		been completed								
	FE-3791	Change authentication providers to return CommunicationException when appropriate	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↑	Closed	Fixed	Oct 21, 2011	Nov 02, 2011
	FE-3772	Add option to enable client authentication SSL	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↓	Closed	Fixed	Oct 09, 2011	Oct 18, 2012
	FE-3611	Improve the way avatars are loaded to avoid unnecessary calls	Anna Buttfield [Atlassian]	Renan Battaglin [Atlassian]	↓	Closed	Fixed	Jul 29, 2011	Jan 23, 2013
	CRUC-5952	Syntax highlighting for Scala doesn't recognize symbol literals.	Seb Ruiz [Atlassian]	Leif Wickland	↓	Closed	Fixed	Oct 26, 2011	Oct 31, 2011
	FE-3823	If the total length of the branch names selected for the commit graph is too	Unassigned	Tom Davies [Atlassian]	↓	Closed	Fixed	Nov 09, 2011	Nov 10, 2011

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		long, the spinner never disappears							
	FE-3812	When synchronizing users with LDAP, do not deactivate users if the error is a communication problem	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]		Closed	Fixed	Nov 02, 2011	Nov 02, 2011
	FE-3809	Upgrade of instances using Oracle fail when upgrade_75.sql is run	Anna Buttfield [Atlassian]	Renan Battaglin [Atlassian]		Closed	Fixed	Oct 31, 2011	Nov 02, 2011
	FE-3794	Sourcing a Tag from a Tag Can cause FishEye not to display tag contents	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]		Closed	Fixed	Oct 24, 2011	Nov 03, 2011
	FE-3787	When synchronizing users with Crowd, do not deactivate users if the	Pierre-Etienne Poirot [Atlassian]	Adam Ahmed [Atlassian]		Closed	Fixed	Oct 20, 2011	Aug 20, 2012

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		error is a communication problem							
	FE-3784	Modified tags fail in the branch selector	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]	↓	Closed	Fixed	Oct 19, 2011	Nov 03, 2011
	FE-3783	Activity Stream UI sometimes slow in git - it makes calls to git remote show.	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]	↑	Closed	Fixed	Oct 17, 2011	Nov 04, 2011
	FE-3767	WARN messages 'Repository index does not match the repository configuration' incorrectly logged after upgrading to 2.7	Conor MacNeill [Atlassian]	Michael Heemskerk [Atlassian]	↓	Closed	Fixed	Oct 06, 2011	Nov 02, 2011
	FE-3645	Old non-http/s Simple Linker configuration passes upgrade but results in error	Pierre-Etienne Poirot [Atlassian]	Rene Verschoor [Atlassian]	↑	Closed	Fixed	Aug 15, 2011	Nov 04, 2011

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		when trying to open repo								
	FE-3620	Display name not being picked up correctly in some cases with JIRA user management	Pierre-Etienne Poirot [Atlassian]	Gurleen Anand [Atlassian]	↑	Closed	Fixed	Aug 04, 2011	Jan 17, 2012
	CRUC-5953	Scala syntax highlighter highlights substrings of identifiers as keywords	Seb Ruiz [Atlassian]	Leif Wickland	↓	Closed	Fixed	Nov 01, 2011	Nov 02, 2011
	CRUC-5947	Some browsers drop params to server and Migration to Postgres fails	Seb Ruiz [Atlassian]	Gurleen Anand [Atlassian]	↑	Closed	Fixed	Oct 20, 2011	Oct 26, 2011
	CRUC-5923	Unable to add files to review using "Explore Repositories" option	Geoff Crain [Atlassian]	Piotr Stefan Stefaniak [Atlassian]	↑	Closed	Fixed	Sep 26, 2011	Feb 02, 2012
	CRUC-4888	quotation marks being double	Pierre-Etienne Poirot [Atlassian]	Tim Petterssen [Atlassian]	↓	Closed	Fixed	Nov 11, 2010	Nov 09, 2011

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escaped in latest comment text

Authenticate to retrieve your issues

From 2.7.4 to 2.7.5

21 October 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3799	p4 support: Cleanup and Merge the p4 ancestry suppression flag to 2.6/7/default	Conor MacNeill [Atlassian]	Matthew Watson [Atlassian]		Closed	Fixed	Sep 27, 2011	Jan 23, 2013
	FE-3768	FishEye logs lots of ApplicationPermissionException when synchronising Crowd users that have no permission on FishEye / Crucible	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		Closed	Fixed	Oct 06, 2011	Oct 12, 2011
	FE-3788	Git does not report an error	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]		Closed	Fixed	Oct 19, 2011	Oct 20, 2011

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		when creating a managed repository over an existing one							
	FE-3777	Fix documentation of the managed repositories' REST API	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↓	Closed	Fixed	Oct 12, 2011	Oct 12, 2011
	FE-3774	Search results page fails to render for EyeQL queries > 4000 characters on Oracle.	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]	↑	Closed	Fixed	Oct 11, 2011	Oct 12, 2011
	FE-3755	SVN: Paths under tag directories are displayed as deleted / empty directories (greyed out)	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]	↓	Closed	Fixed	Sep 30, 2011	Oct 12, 2011
	FE-3752	Repository path, includes, excludes and hidden directories should be	Tom Davies [Atlassian]	Tim Petteren [Atlassian]	↑	Closed	Fixed	Sep 29, 2011	Oct 05, 2011

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		copied to newly created forks							
	FE-3751	'Store diffs' setting is not respected for initial imports of SVN repositories	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		Closed	Fixed	Sep 29, 2011	Oct 09, 2011
	FE-3737	Cannot customize front page with global anonymous access turned off	Tom Davies [Atlassian]	Gurleen Anand [Atlassian]		Closed	Fixed	Sep 22, 2011	Oct 07, 2011
	FE-3727	Review coverage report screen messed up when using Firefox 6.0.2 and Chrome 12.0.7	Michael Studman [Atlassian]	Camila Ayres [Atlassian]		Closed	Fixed	Sep 16, 2011	Oct 26, 2011
	FE-3721	Error when changing content of a review	Tom Davies [Atlassian]	Federico Silva Armas [Atlassian]		Closed	Fixed	Sep 15, 2011	Jan 23, 2013
	FE-3698	Web Hooks payload received with "application/x	Anna Buttfield [Atlassian]	Sten Pittet [Atlassian]		Closed	Fixed	Sep 07, 2011	Oct 24, 2011

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		ml" as the content type								
	FE-3692	When pushing to a Git managed repo while another client is cloning, the client which is cloned freezes	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]		Closed	Fixed	Sep 06, 2011	Oct 09, 2011
	FE-3678	Provide a more friendly message to the users	Anna Buttfield [Atlassian]	Zed Yap [Atlassian]		Closed	Fixed	Sep 05, 2011	Oct 13, 2011
	FE-2625	code metrics error for branches directories	Pierre-Etienne Poirot [Atlassian]	Tracey Lum [Atlassian]		Closed	Fixed	Jun 03, 2010	Oct 11, 2011
	CRUC-5914	'Allow anon users' permission is broken for all but 'view review' and should be removed.	Tom Davies [Atlassian]	Michael Studman [Atlassian]		Closed	Fixed	Sep 22, 2011	Oct 12, 2011
	CRUC-5913	Comment permissions don't work for 'all	Tom Davies [Atlassian]	Michael Studman [Atlassian]		Closed	Fixed	Sep 22, 2011	Oct 07, 2011

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		logged in users'							
	CRUC-5606	Very large text files produce OOME when diffing	Anna Buttfield [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	Feb 08, 2011	May 25, 2012
	CRUC-4435	Same file shows up twice in a review	Michael Heemskerk [Atlassian]	Andrew Myers [Atlassian]		Closed	Fixed	Oct 01, 2010	Oct 11, 2011

Authenticate to retrieve your issues

From 2.7.3 to 2.7.4

28 September 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3748	NullPointerException while loading user preferences from database, causing login failures	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		Closed	Fixed	Sep 27, 2011	Sep 28, 2011
	FE-3747	If you edit and then save a managed repository in Internet Explorer, the text	Tim Petteresen [Atlassian]	Tim Petteresen [Atlassian]		Closed	Fixed	Sep 27, 2011	Sep 27, 2011

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		"fork of null" will appear and the forks view will no longer be availabl e.							
	FE-374 2	After a user has been deleted and then added again, subseq uent deletio ns fail	Tom Davies [Atlassi an]	Tom Davies [Atlassi an]	↓	Clos ed	Fixed	Sep 26, 2011	Sep 27, 2011
	FE-374 1	Manual Auth Re-Syn c button doesn't do anythin g	Tom Davies [Atlassi an]	Phil Davies	↓	Clos ed	Fixed	Sep 23, 2011	Sep 27, 2011
	FE-373 8	Log files not include d in support zip	Matthe w Watson [Atlassi an]	Matthe w Watson [Atlassi an]	↑	Clos ed	Fixed	Sep 23, 2011	Jan 17, 2012
	FE-373 5	Commit events fired on Git repos when branch es are added/r emove d	Seb Ruiz [Atlassi an]	Matt Ryall [Atlassi an]	↑	Clos ed	Fixed	Sep 22, 2011	Sep 28, 2011
	FE-373 4	Error upon exceedi ng license limit	Tom Davies [Atlassi an]	Gurlee n Anand [Atlassi an]	↑	Clos ed	Fixed	Sep 22, 2011	Sep 27, 2011

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		with Crowd user management							
	FE-3716	Hg authentication fails with special character in password	Michael Studman [Atlassian]	Gurleen Anand [Atlassian]	↑	Closed	Fixed	Sep 14, 2011	Jan 17, 2012
	FE-3168	Restricting Fisheye content in Projects Has No Effect	Michael Studman [Atlassian]	None	↑	Closed	Fixed	Dec 06, 2010	Feb 01, 2013
	CRUC-5920	ConstraintViolationException: Duplicate entry 'xyz' for key 'cru_user_name' after upgrading to 2.7	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]	↑	Closed	Fixed	Sep 26, 2011	Sep 28, 2011
	CRUC-5900	Showing only time for each changeset (not from today) on Add Content to Review screen does not make sense	Seb Ruiz [Atlassian]	Wojciech Seliga	↓	Closed	Fixed	Sep 11, 2011	Oct 05, 2011

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	CRUC-5891	the crucible change set activity was never updated to the new layout, which means some css is broken	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	Closed	Fixed	Sep 06, 2011	Sep 21, 2011
	CRUC-5866	Unable to link issue due to no OAuth prompt	Michael Studman [Atlassian]	Conor MacNeill [Atlassian]	↑	Closed	Fixed	Aug 16, 2011	Sep 22, 2011

Authenticate to retrieve your issues

From 2.7.2 to 2.7.3

20 September 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3717	Augment the git-http-backend from 1min to 1hour	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↑	Closed	Fixed	Sep 15, 2011	Sep 19, 2011
	FE-3635	Backup fails if write.lock file still exists in lucene	Michael Studman [Atlassian]	Renan Battaglin [Atlassian]	↑	Closed	Fixed	Aug 09, 2011	Jan 17, 2012

Authenticate to retrieve your issues

From 2.7.1 to 2.7.2

19 September 2011

This is a bug fix release. The complete list of issues is below.

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Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3616	Change com.cenqua.fisheye.logging.DailyRollingFileAppender to keep the extension .log	Conor MacNeill [Atlassian]	Felipe Cuozzo [Atlassian]		Closed	Fixed	Aug 02, 2011	Jan 17, 2012
	CRUC-5896	JIRA title is often too long and wraps	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]		Closed	Fixed	Sep 08, 2011	Sep 14, 2011
	FE-3718	Eclipse Git integration (egit) fails to clone from managed Git repository	Unassigned	Tim Petteresen [Atlassian]		Closed	Fixed	Sep 15, 2011	Sep 19, 2011
	FE-3711	Some Directory links in Quick Search have double encoded URLs	Jason Hinch [Atlassian]	Jason Hinch [Atlassian]		Closed	Fixed	Sep 12, 2011	Jan 17, 2012
	FE-3696	Web Hooks should be deleted when deleting a repository	Tom Davies [Atlassian]	Seb Ruiz [Atlassian]		Closed	Fixed	Sep 07, 2011	Sep 14, 2011
	FE-369	Paginat	Jonath	Rene		Clos	Fixed	Sep 06,	Sep 15,

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	3	ion numbers at bottom of Repositories screen overlap with system info footer	an Poh [Atlassian]	Verschoor [Atlassian]		ed		2011	2011
	FE-3647	Google collections and Guava both bundled, package exported without version	Conor MacNeill [Atlassian]	Richard Wallace [Atlassian]		Closed	Fixed	Aug 15, 2011	Sep 14, 2011
	CRUC-5902	change set discussion autosave fails with error dialog when no comment is entered	Tom Davies [Atlassian]	Joe Xie [atlassian]		Closed	Fixed	Sep 13, 2011	Sep 14, 2011
	CRUC-5888	Closing the Send Reminder dialog via Esc doesn't reset it.	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]		Closed	Fixed	Sep 06, 2011	Sep 13, 2011
	CRUC-5886	If the current user is a review's author, then	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]		Closed	Fixed	Sep 06, 2011	Sep 13, 2011

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		switches to a reviewer, they show up in the manual Send Reminder dialog.							
	CRUC-5885	Review reminder notes do not render new lines in email	Michael Studman [Atlassian]	Seb Ruiz [Atlassian]		Closed	Fixed	Sep 06, 2011	Sep 13, 2011
	CRUC-3298	Should be able to mark files as text when the scm reports binary	Unassigned	Eduardo M		Closed	Fixed	Apr 09, 2010	Oct 11, 2011

Authenticate to retrieve your issues

From 2.7.0 to 2.7.1

9 September 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3701	CommitHookModuleDescriptor#enable can fail if Active Objects Configuration for Commit Hooks Plugin is not	Jason Hinch [Atlassian]	Jason Hinch [Atlassian]		Closed	Fixed	Sep 08, 2011	Sep 12, 2011

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		availabl e yet								
	FE-370 0	Can't reset user passwo rd	Pierre-Etienne Poirot [Atlassi an]	Conor MacNei ll [Atlassi an]		Clos ed	Fixed	Sep 07, 2011	Sep 09, 2011
	FE-369 5	Deletin g a web hook dialog has a broken layout	Jason Hinch [Atlassi an]	Seb Ruiz [Atlassi an]		Clos ed	Fixed	Sep 07, 2011	Sep 09, 2011
	FE-369 4	Testing a Web Hook doesn't send mock change set displayI d	Seb Ruiz [Atlassi an]	Seb Ruiz [Atlassi an]		Clos ed	Fixed	Sep 07, 2011	Sep 07, 2011
	FE-301 8	Unnece ssary implicit antglob bing in Query3	Brenda n Humph reys [Atlassi an]	Brenda n Humph reys [Atlassi an]		Clos ed	Fixed	Apr 11, 2011	Oct 05, 2012
	CRUC-3298	Should be able to mark files as text when the scm reports binary	Unassi gned	Eduard o M		Clos ed	Fixed	Apr 09, 2010	Oct 11, 2011

Authenticate to retrieve your issues

Crucible 2.7 Upgrade Guide

Below are some important notes on upgrading to **Crucible 2.7**. For details of the new features and improvements in this release, please read the Crucible 2.7 Release Notes.

On this page:

- Upgrade Notes
  - Crucible 2.7
- Upgrade Procedure
- Checking for Known Issues and Troubleshooting the Crucible Upgrade

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Upgrade Notes

Crucible 2.7

- **Crucible Confluence LightSCM Plugin has Been Removed from Crucible**
  Previously, Crucible shipped with a plugin to enable reviews against content in Confluence. Since Confluence 4's new editor will no longer support wiki markup, this plugin has been deprecated. The Crucible plugin source as well as the source for the Confluence SCM plugin will remain open-source and are available via the Plugin Exchange at the following locations:

Crucible Plugin	Confluence Crucible Plugin

- **Crucible 2.7 adds ActiveObjects support**
  ActiveObjects allows plugins to store configuration data in the database. Please note, any already scheduled backups will not have plugin data included during backups. Please modify your scheduled backup configuration appropriately to include ActiveObjects backups.

Confluence has a number of free and commercially available review and workflow plugins. We recommend taking take a look at these, to implement a smooth review process for Confluence pages.

Upgrade Procedure

Before you begin
- Test your upgrades in your test environment before rolling into production.
- Back up your **entire** Crucible instance (see Backing up and restoring Crucible data), i.e.
  - If you are backing up your Crucible instance via the Admin interface, tick all of the '**Include**' checkboxes (e.g. plugins, templates, uploads, SQL database, etc).
  - If you are backing up your Crucible instance using the command-line interface, do not use any exclusion options.

If you are already running a version of Crucible, please refer to the Crucible upgrade guide.

Checking for Known Issues and Troubleshooting the Crucible Upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues**. Sometimes Atlassian finds out about a problem with the latest version of Crucible after the software is released. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the Crucible 2.7 Known Issues in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to troubleshooting upgrades in the Crucible Knowledge Base.
- If you encounter a problem during the upgrade and cannot solve it, please create a support ticket and one of our support engineers will help you.

RELATED TOPICS

Crucible 2.7 Release Notes

Crucible 2.6 Release Notes

6 June 2011
With great pleasure, Atlassian presents **Crucible 2.6** with SQL Server support, improved Quick Search, much better handling of reviews for Subversion merge commits and HTML emails.
Highlights of this Release:
- New Quick Search
- HTML Emails for Reviews
- Dashboard and Navigation Improvements
- SQL Server Support
- Oracle Support

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- Review Creation without Metadata Changes
- Improved Patch Anchoring
- And Even More Improvements

Responding to your Feedback:

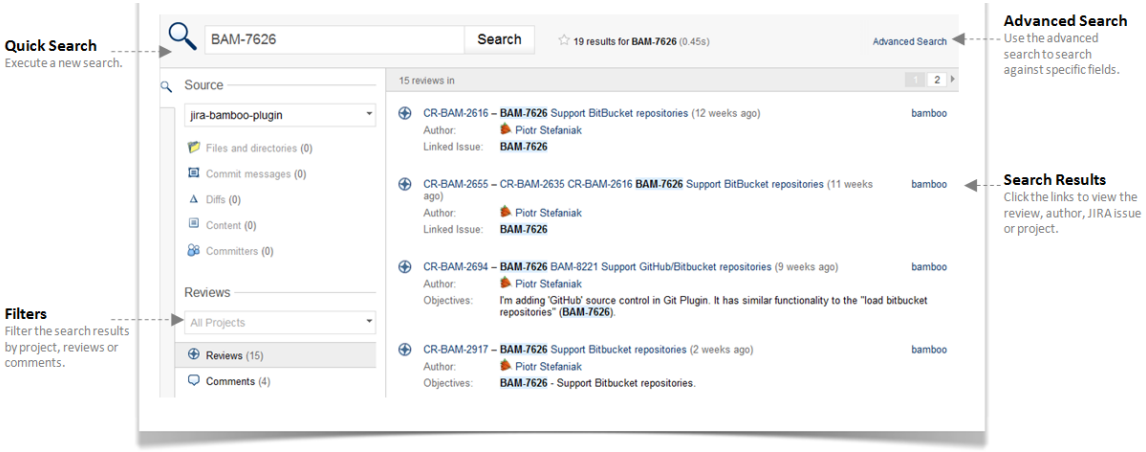
Over **269** votes satisfied

- Thank you for all your issues and votes. Keep logging issues to help us keep improving!
- Read the release notices for important information about this release.

Highlights of Crucible 2.6

New Quick Search

You'll be able to find information faster using Crucible's new Quick Search. The Quick Search helps you to find the exact information that you need with a click of a button. The search results are also easy to work with – the user interface has a clean look and feel and features wiki rendering for reviews, popup summaries for JIRA issues in commit messages and more.



More...

HTML Emails for Reviews

A 20% time project has resulted in email notifications getting a dramatic facelift. Gone are the dreary plain text emails, replaced by much better-looking HTML emails. You'll see the new emails in action for review notifications.

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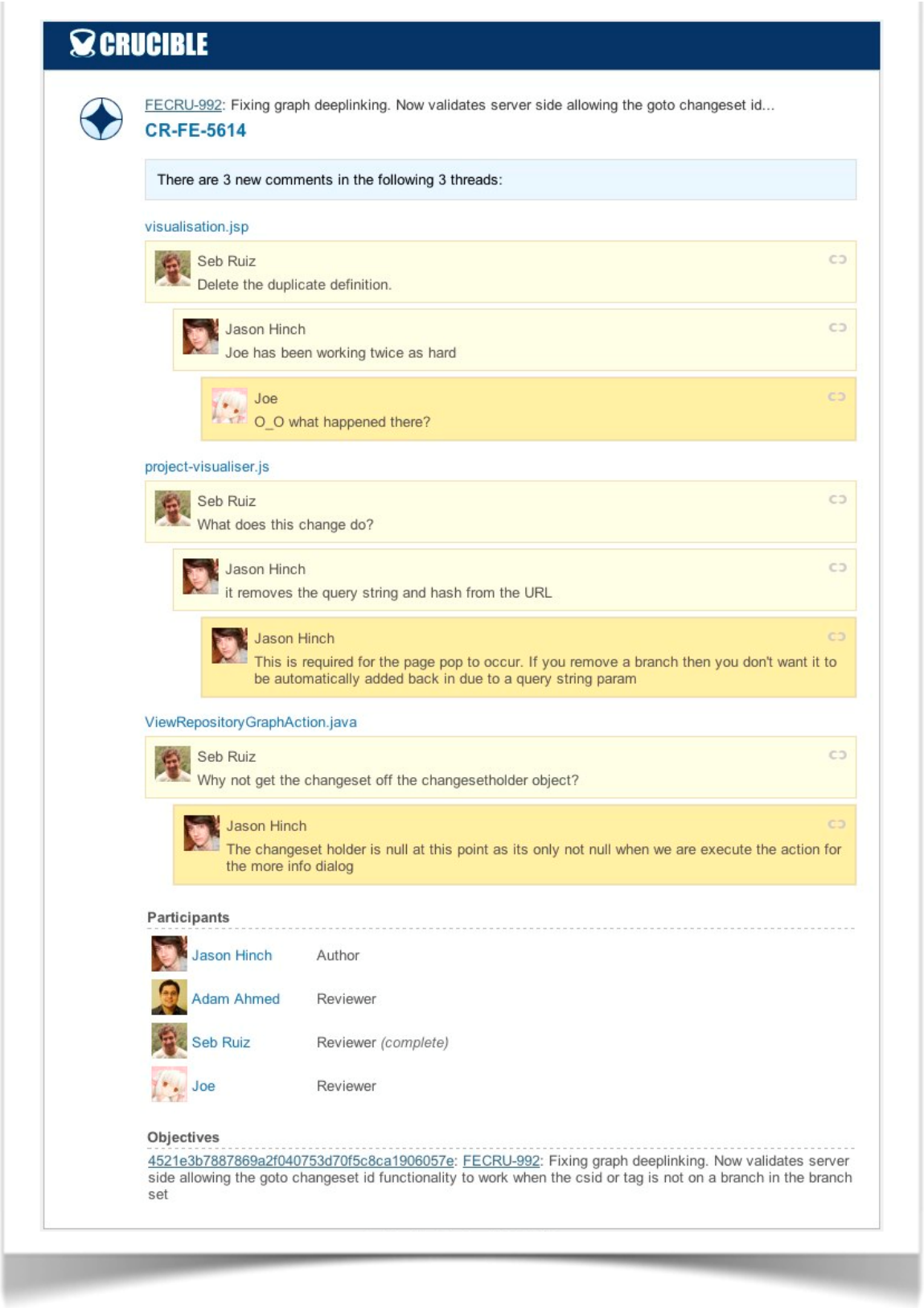

3

Dashboard and Navigation Improvements

The Dashboard and Header have been tweaked to simplify the user interface in this release. You won't have to click different tabs to find the activity stream, as it will always be displayed. We've moved the other functions to the header to remove the clutter and provide you with a more streamlined view.

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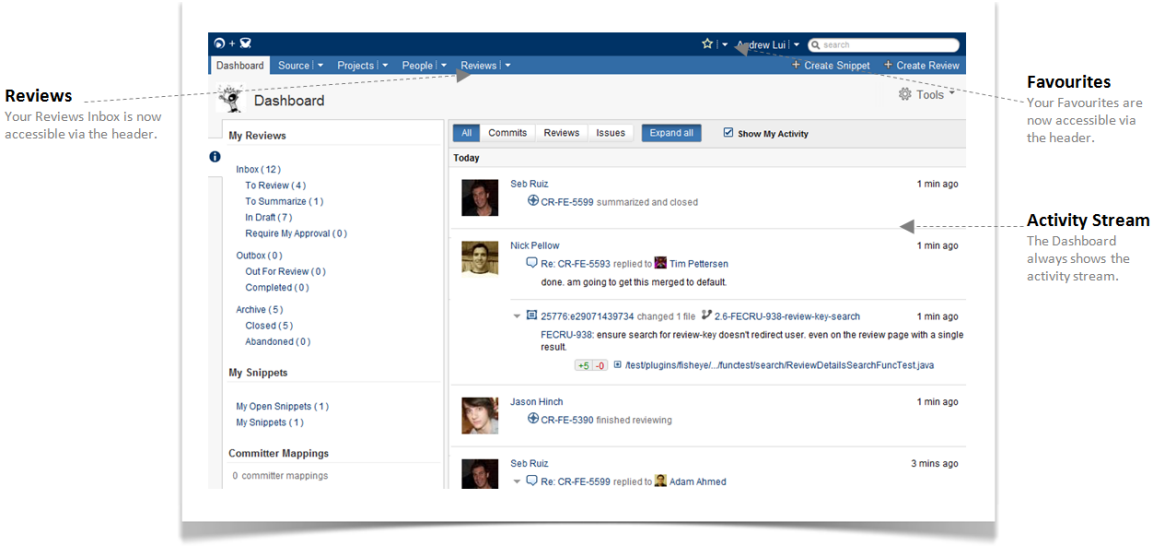

More...

4

SQL Server Support

We are happy to announce that Crucible 2.6 now supports Microsoft SQL Server 2005 and 2008.

More...

5

Oracle Support

We previously announced beta support for the Oracle DBMS in Crucible 2.5. We are happy to announce that this is no longer in beta, and that the Oracle DBMS is officially supported for Crucible 2.6.

More...

6

Review Creation without Metadata Changes

Creating a review from a Subversion commit will now exclude metadata-only changes to files. You won't get pesky `svn mergeinfo` properties cluttering your review screens anymore! We've also prevented changesets that are entirely svnprops changes (i.e. don't have any non-metadata changes) from being added to reviews.

More...

7

Improved Patch Anchoring

We've revamped patch anchoring in this release. All the work has been done under the covers, to improve how a patch anchors to a repository. You should just notice that anchoring patches works better, when creating a review. And if something does go wrong, we've built in better error handling so that you'll know what went wrong.

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More...

And Even More Improvements

Visit our issue tracker to see the full list of improvements and bug fixes in FishEye and Crucible for this release.

Release Notices

- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straightforward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the Crucible 2.6 Upgrade Guide for further essential information about your upgrade.
- **Known Issues.** Please check the important technical advisories on the front page of the Knowledge Base for information about any known issues for this release.

Crucible 2.6 Changelog

This page contains information about the Crucible 2.6 minor releases. FishEye license holders should also check the FishEye 2.6 Changelog.
See the Crucible 2.6 Release Notes for details of what's new in 2.6.0.

 Please read the Crucible 2.6 Upgrade Guide before upgrading to any of the minor releases below.

On this page:

- From 2.6.6 to 2.6.7
- From 2.6.5 to 2.6.6
- From 2.6.4 to 2.6.5
- From 2.6.3 to 2.6.4
- From 2.6.2 to 2.6.3
- From 2.6.1 to 2.6.2
- From 2.6.0 to 2.6.1

From 2.6.6 to 2.6.7

31 January 2012

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-3891	Webwork 2 vulnerability	Vitaly Osipov [Atlassian]	Paul Watson [Atlassian]		Closed	Fixed	Jan 17, 2012	Jan 31, 2012

Authenticate to retrieve your issues

From 2.6.5 to 2.6.6

2 September 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated

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	CRUC-5875	Review permid matching patterns are too greedy and cause number format exceptions	Jason Hinch [Atlassian]	Jason Hinch [Atlassian]	↓	Closed	Fixed	Aug 26, 2011	Sep 02, 2011
	CRUC-5871	Cannot view an added file with multiple revisions in side by side diff mode	Jason Hinch [Atlassian]	Jason Hinch [Atlassian]	↓	Closed	Fixed	Aug 23, 2011	Aug 29, 2011
	CRUC-5853	Crucible ToDo gadget links don't work due to extra slashes in the url	Joe Xie [atlassian]	Jay Barra	↑	Closed	Fixed	Aug 01, 2011	Sep 08, 2011
	CRUC-5124	Extra space in review page	Joe Xie [atlassian]	Felipe Kraemer [Atlassian]	↑	Closed	Fixed	Dec 06, 2010	Sep 02, 2011

Authenticate to retrieve your issues

From 2.6.4 to 2.6.5

24 August 2011

This is a FishEye bug fix release. For details, see the FishEye 2.6 Changelog.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated

From 2.6.3 to 2.6.4

22 August 2011

This is a FishEye bug fix release. For details, see the FishEye 2.6 Changelog.

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Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated

From 2.6.2 to 2.6.3

9 August 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-4683	Create a plugin point for external activity item providers	John Kodumal [Atlassian]	John Kodumal [Atlassian]		Closed	Fixed	Oct 26, 2010	Aug 09, 2011
	CRUC-5862	Patch Anchoring: UI Improvements for uploading patches	Unassigned	Matthew Watson [Atlassian]		Closed	Fixed	Jul 22, 2011	Aug 15, 2011
	CRUC-5842	GZIP Attachments get GZIPPED when downloaded from Crucible	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]		Closed	Fixed	Jul 22, 2011	Oct 25, 2011
	CRUC-5832	Crucible Source names are not being trimmed, and review creation fails.	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]		Closed	Fixed	Jul 19, 2011	Jul 21, 2011
	CRUC-5829	uploading a patch	Matthew Watson	Geoff Crain [Atlassi		Closed	Fixed	Jul 15, 2011	Aug 15, 2011

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	can take a very long time	[Atlassian]	an]	

From 2.6.1 to 2.6.2

20 July 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5830	Admin allows the creation of permission schemes with blank names	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]		Closed	Fixed	Jul 18, 2011	Jul 20, 2011
	CRUC-5827	10 minute page load time for pre-commit diffs of large (1000LOC) files	Geoff Crain [Atlassian]	Nick Pellow [Atlassian]		Closed	Fixed	Jul 13, 2011	Jul 18, 2011
	CRUC-5821	Review InfoDao.doIncremental() is inefficient and causes Repo Review Indexing to hang.	Unassigned	Trevor Samaroo		Closed	Fixed	Jul 07, 2011	Jul 20, 2011

From 2.6.0 to 2.6.1

22 June 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated

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	CRUC-5809	Reviews with anchored patches cause NPE when anchored repository isn't available.	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]	↓	Closed	Fixed	Jun 18, 2011	Jun 21, 2011
	CRUC-5783	Applinks to non-JIRA servers confuse the Crucible link review to issue process	Anna Buttfield [Atlassian]	Conor MacNeill [Atlassian]	↓	Closed	Fixed	Jun 01, 2011	Jun 24, 2011
	CRUC-5782	Exception while looking up JIRA issue ends request in error	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↑	Closed	Fixed	Jun 02, 2011	Aug 29, 2011
	CRUC-5780	NPE when trying to link review to JIRA issue causes failure of review creation	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↑	Closed	Fixed	Jun 01, 2011	Jun 09, 2011
	CRUC-5778	Moving a review between projects fails when	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↑	Closed	Fixed	May 27, 2011	Jun 20, 2011

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		the default moderator of the destination project is the same as the current moderator								
	CRUC-5777	Recording which reviews contain which revisions stops a repository scanning	Geoff Crain [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	May 27, 2011	Jun 15, 2011
	CRUC-5773	List of JIRA Projects in linked server is cached forever	Tom Davies [Atlassian]	Tim Petterseen		Closed	Fixed	May 25, 2011	Jun 15, 2011
	CRUC-5546	[Admin] "Save & Migrate" is never re-enabled	Anna Buttfield [Atlassian]	Brendan Humphreys [Atlassian]		Closed	Fixed	Feb 01, 2011	Jun 20, 2011

Crucible 2.6 Upgrade Guide

Below are some important notes on upgrading to **Crucible 2.6**. For details of the new features and improvements in this release, please read the Crucible 2.6 Release Notes.

On this page:

- Upgrade Notes
  - Crucible 2.6
- Upgrade Procedure
- Checking for Known Issues and Troubleshooting the Crucible Upgrade

Upgrade Notes

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Crucible 2.6

- **Internet Explorer 7 and Java Platform 5 (JDK/JRE 1.5) no longer supported** — As per the End of Support Announcements for Crucible (published previously), we are no longer supporting Internet Explorer 7 and Java Platform 5 (JDK/JRE 1.5) in this release. See Supported platforms page for the full list of supported platforms for Crucible.
- **Disabling review creation without metadata** — Crucible 2.6 introduces review creation without metadata. This functionality is enabled by default. If you want to **disable this functionality**, you can do so by starting up Crucible with the following system property:
  `-Dcrucible.detect.metadata.revision.changes=false`
  For further details, read this FAQ: How do I force reviews to include SVN property changes?

Upgrade Procedure

Before you begin

- Test your upgrades in your test environment before rolling into production.
- Back up your **entire** Crucible instance (see Backing up and restoring Crucible data), i.e.
  - If you are backing up your Crucible instance via the Admin interface, tick all of the '**Include**' checkboxes (e.g. plugins, templates, uploads, SQL database, etc).
  - If you are backing up your Crucible instance using the command-line interface, do not use any exclusion options.

If you are already running a version of Crucible, please refer to the Crucible upgrade guide.

Checking for Known Issues and Troubleshooting the Crucible Upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues**. Sometimes we find out about a problem with the latest version of Crucible after we have released the software. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the Crucible 2.6 Known Issues in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to troubleshooting upgrades in the Crucible Knowledge Base.
- If you encounter a problem during the upgrade and cannot solve it, please create a support ticket and one of our support engineers will help you.

RELATED TOPICS

Crucible 2.6 Release Notes

Crucible 2.5 Release Notes

8 February 2011
With great pleasure, Atlassian presents **Crucible 2.5**, now with support for Oracle and redesigned Activity Stream.
Highlights of this Release:

- Oracle Support (beta)
- Redesigned Activity Stream
- Improved Header
- Comment Notification Batching
- And Even More Improvements

Responding to your Feedback:
Over **150** votes satisfied

- Thank you for all your issues and votes. Keep

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logging issues to help us keep improving!
- Read the release notices for important information about this release.

Highlights of Crucible 2.5

Oracle Support (beta)

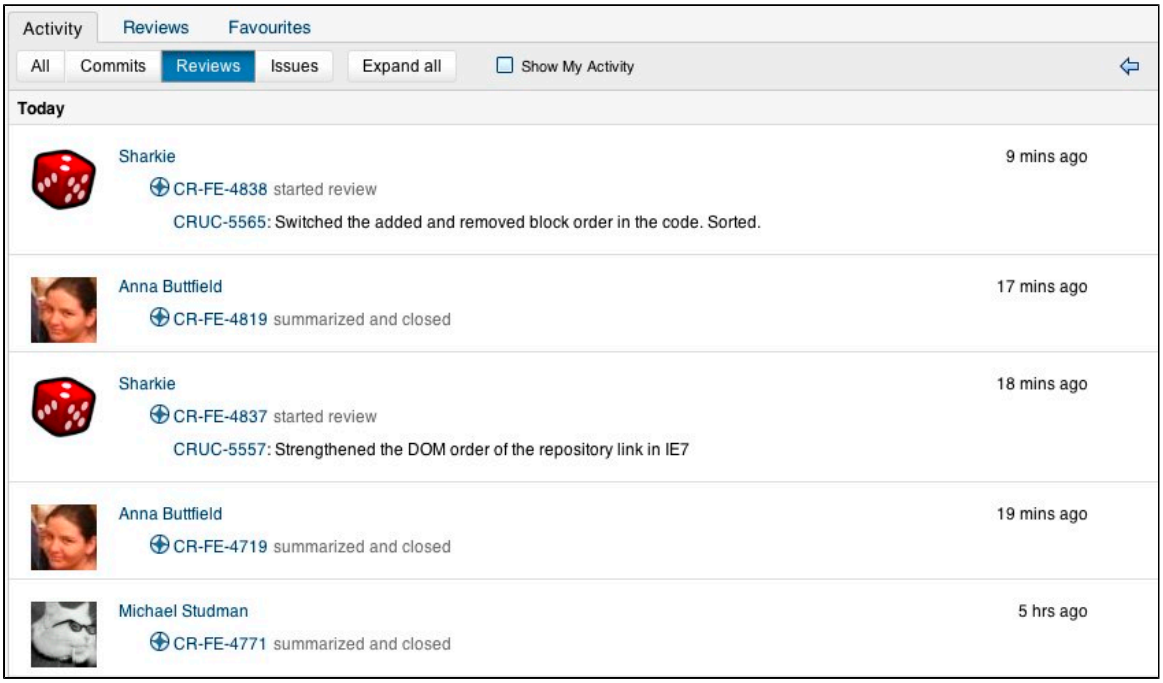
We have been working very hard on adding support for the Oracle DBMS for Crucible 2.5 as this has been a very popular feature request with more that 115 votes.

We have been using Crucible with Oracle over the past month ourselves, so we believe we are almost there. We would love for you to give Crucible a try on Oracle DBMS and let us know if you run into any problems by creating an issue.

Redesigned Activity Stream

We have spent a considerable amount of time improving the FishEye activity stream:

- Cleaner visual design
- Larger avatars
- Improved scanability
- De-cluttering of UI elements, showing actions on hover
- Space-saving condensed mode so you can see more changesets on the same page



Improved Header

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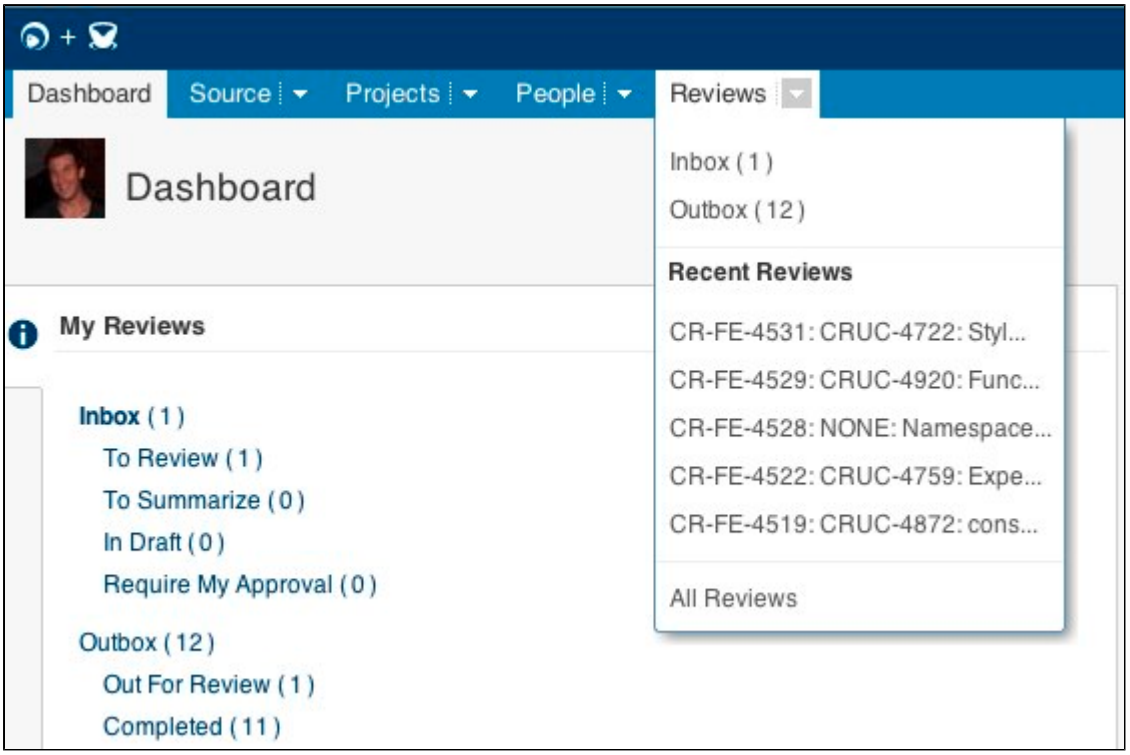
Crucible 2.5 tracks locations that you have recently visited, and provides quick and easy access to navigate to these resources. The five most recently viewed projects, reviews, users and repositories (if FishEye is installed) are available from the header drop down links as shown:



Comment Notification Batching

Email notifications from Crucible can be frequent, particularly on reviews with many participants and lots of comments. We won't say spam, but it can certainly feel "chatty!" Crucible 2.5 remedies this problem with improved batching of emails. All comments are grouped together and sent in a user-specified interval. They're easier to read and will keep your inbox happy. It works for draft comments and edited comments, too, so fixing a typo will no longer send out multiple notifications!

Example:

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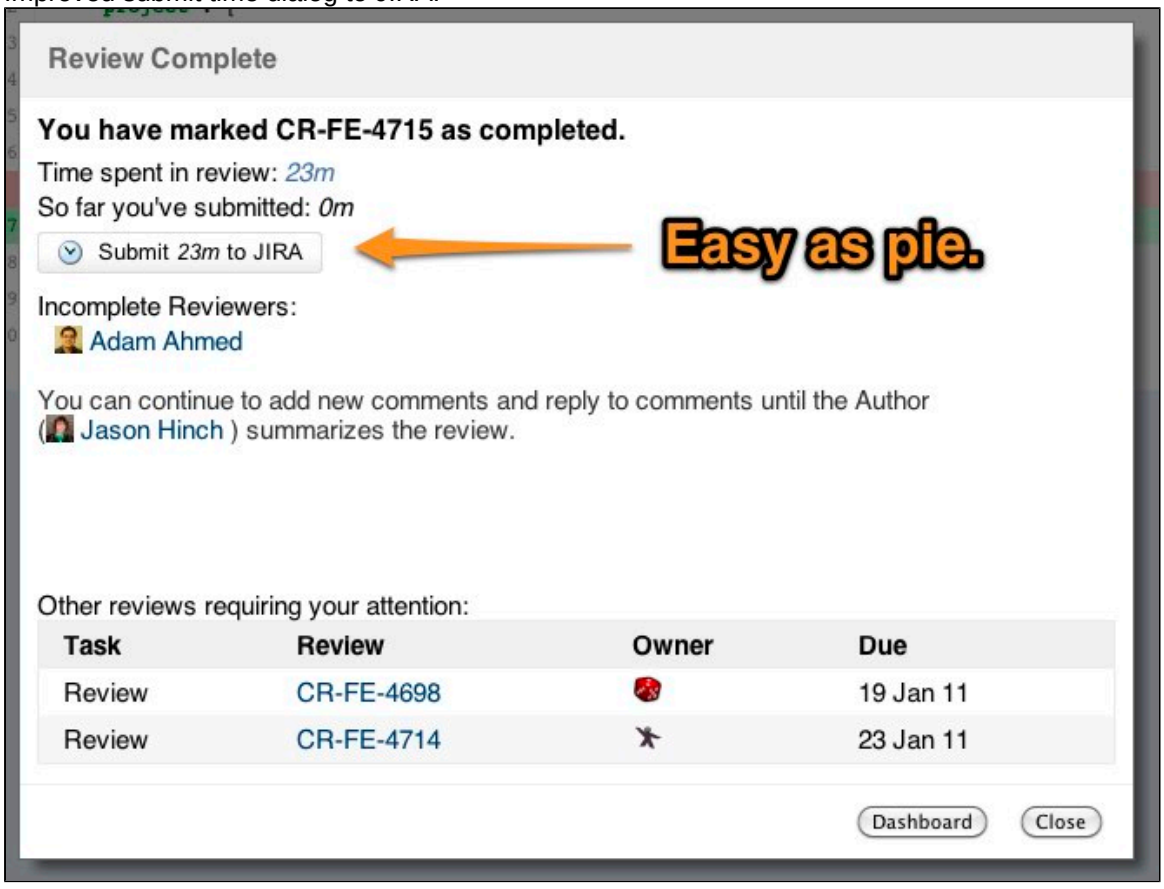
```
There are 2 new comments in the following thread:
  AuthenticationStyle.java -
http://localhost:6060/crucible/cru/CR-FE-4223/#c36358
  Geoff Crain on 02 Feb 2011, 12:01
      Is this really how this is supposed to work? You should fix this.
      ******  New
********************************************************************************
**************************
      Seb Ruiz on 02 Feb 2011, 13:31
          Geoff is right. But youll have to fix it on a separate branch.

********************************************************************************
************************************
          ******  New
********************************************************************************
**********************
          Joe Xie on 02 Feb 2011, 13:32
              Fixed.. change is here:
http://localhost:6060/crucible/changelog/FE?cs=e962e59bccda

********************************************************************************
**********************************
```

And Even More Improvements

- The Universal Plugin Manager
- Improved submit time dialog to JIRA:



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Visit our issue tracker to see the full list of improvements and bug fixes in FishEye and Crucible for this release.

Release Notes

Crucible 2.5 Changelog

This page contains information about the Crucible 2.5 minor releases. FishEye license holders should also check the FishEye 2.5 Changelog.

⚠ Please read the Crucible 2.5 Upgrade Guide before upgrading to any of the minor releases below.

On this page:

- From 2.5.6 to 2.5.7
- From 2.5.5 to 2.5.6
- From 2.5.4 to 2.5.5
- From 2.5.3 to 2.5.4
- From 2.5.2 to 2.5.3
- From 2.5.1 to 2.5.2
- From 2.5.0 to 2.5.1

From 2.5.6 to 2.5.7

22 June 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5811	Permission checking bug in Crucible Review Tooltips	Vitaly Osipov [Atlassian]	Andrew Lui [Atlassian Technical Writer]		Closed	Fixed	Jun 20, 2011	Dec 01, 2011
	CRUC-5782	Exception while looking up JIRA issue ends request in error	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↑	Closed	Fixed	Jun 02, 2011	Aug 29, 2011
	CRUC-5780	NPE when trying to link review to JIRA issue causes failure of review	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↑	Closed	Fixed	Jun 01, 2011	Jun 09, 2011

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		creation								
	CRUC-5778	Moving a review between projects fails when the default moderator of the destination project is the same as the current moderator	Tom Davies [Atlassian]	Tom Davies [Atlassian]	↑	Closed	Fixed	May 27, 2011	Jun 20, 2011
	CRUC-5773	List of JIRA Projects in linked server is cached forever	Tom Davies [Atlassian]	Tim Petteren	↓	Closed	Fixed	May 25, 2011	Jun 15, 2011
	CRUC-5707	review coverage report gadget is broken	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↑	Closed	Fixed	Apr 01, 2011	Jun 01, 2011

From 2.5.5 to 2.5.6

24 May 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5540	Fix patch anchoring when the patch generated by	Geoff Crain [Atlassian]	Anton Mazkovoi [Atlassian]	↓	Closed	Fixed	Jan 31, 2011	May 18, 2011

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		IDE Connectors is pasted into the Crucible UI							
	CRUC-5769	NullPointerException when anchoring a patch	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↓	Closed	Fixed	May 19, 2011	May 19, 2011
	CRUC-5767	crucible patch anchoring doesnt support hg patches generated from intellij	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	Closed	Fixed	May 17, 2011	May 18, 2011

From 2.5.4 to 2.5.5

11 May 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5742	Pre-commit patches diff is mixing files together	Geoff Crain [Atlassian]	Felipe Kraemer [Atlassian]	↑	Closed	Fixed	May 02, 2011	May 09, 2011
	CRUC-5727	Pressing 'N' or 'P' to traverse comments from general comments page causes js error	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]	↓	Closed	Fixed	Apr 15, 2011	Apr 19, 2011
	CRUC-	NullPoi	Jason	Jason			Fixed	Apr 14,	Jul 15,

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	5722	nterException when sorting revisions we a mix of null and not null branches	Hinch [Atlassian]	Hinch [Atlassian]	↑	Closed		2011	2011
	CRUC-5356	atl.general decorator is not applied in Crucible	Tim Petteresen [Atlassian]	Mario Mueller	↓	Closed	Fixed	Jan 11, 2011	Jul 19, 2011
	CRUC-4143	View Drafts not viewing drafts	Adam Ahmed [Atlassian]	Don Willis [Atlassian]	↓	Closed	Fixed	Aug 31, 2010	Apr 12, 2011
	CRUC-3766	Repository path with space breaks the patch review	Geoff Crain [Atlassian]	Ming Giet Chong [Atlassian]	↑	Closed	Fixed	Jul 15, 2010	May 30, 2011
	CRUC-3702	pre-commit patches reviews don't work	Geoff Crain [Atlassian]	Justus Pendleton [Atlassian]	↑	Closed	Fixed	Jun 29, 2010	May 30, 2011

From 2.5.3 to 2.5.4

11 April 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5715	After migrating to a different database,	Unassigned	Tom Davies [Atlassian]	↑	Closed	Fixed	Apr 06, 2011	Apr 07, 2011

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		session factories injected into spring beans still point to the old database.							
	CRUC-5710	Web Resources are loaded twice on pages rendered with some decorators	Jason Hinch [Atlassian]	Jason Hinch [Atlassian]	↓	Closed	Fixed	Apr 05, 2011	Apr 07, 2011
	CRUC-5673	Time field displayed incorrectly when editing review	Adam Ahmed [Atlassian]	Felipe Kraemer [Atlassian]	↓	Closed	Fixed	Mar 11, 2011	Apr 01, 2011
	CRUC-5657	Add comment using Chrome ends up with no review content	Adam Ahmed [Atlassian]	Brad Baker [Atlassian]	↑	Closed	Fixed	Mar 08, 2011	Apr 18, 2011
	CRUC-5644	RSS Feed option under Tools menu is not displaying correctly on IE7	Craig Sharkie [Atlassian]	Felipe Kraemer [Atlassian]	↓	Closed	Fixed	Feb 24, 2011	Apr 08, 2011
	CRUC-5585	Date format	Adam Ahmed	Jake Causby	↓	Closed	Fixed	Feb 03, 2011	Apr 11, 2011

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		error in edit crucible review dialog	[Atlassian]	[Atlassian]					
	CRUC-5427	reloading content in reviews doesnt work. at all.	Adam Ahmed [Atlassian]	Geoff Crain [Atlassian]		Closed	Fixed	Jan 18, 2011	Apr 01, 2011

From 2.5.2 to 2.5.3

28 March 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5685	No Tools Menu on Snippet Review screen	Conor MacNeill [Atlassian]	Eric Scheie		Closed	Fixed	Mar 17, 2011	Mar 28, 2011
	CRUC-5670	"Add invitee" button does not work	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]		Closed	Fixed	Mar 11, 2011	Mar 13, 2011
	CRUC-5669	LocMetricsService.getLocCount() returns incorrect results	Joe Xie [atlassian]	Joe Xie [atlassian]		Closed	Fixed	Mar 10, 2011	Mar 28, 2011
	CRUC-5662	Branch Order in branch selector drop down should be sorted better	Seb Ruiz [Atlassian]	Brydie McCoy [Atlassian]		Closed	Fixed	Mar 08, 2011	Mar 21, 2011
	CRUC-5661	Searching with	Seb Ruiz	Brydie McCoy		Clos	Fixed	Mar 08, 2011	Mar 21, 2011

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		branch selector doesn't show all results	[Atlassian]	[Atlassian]		ed				
	CRUC-5436	UI Errors: Problems calling function 'cru:getStyleClass' and similar	Conor MacNeill [Atlassian]	Seb Ruiz [Atlassian]		Closed	Fixed	Jan 19, 2011	Jun 06, 2011
	CRUC-5117	Image files (jpg) not completely visible in source tab	Adam Ahmed [Atlassian]	Gurleen Anand [Atlassian]		Closed	Fixed	Dec 03, 2010	Apr 04, 2011

From 2.5.1 to 2.5.2

8 March 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5648	Bundle a Lucene optimizer as an offline command	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]		Closed	Fixed	Mar 01, 2011	Jul 18, 2011
	CRUC-5138	Add an offline command to optimize the indexes	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]		Closed	Fixed	Dec 09, 2010	Sep 15, 2011
	CRUC-4818	Need to prevent UAL	Tom Davies [Atlassian]	Tim Petters		Closed	Fixed	Nov 05, 2010	Feb 14, 2011

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		(and dependent) plugins from being disabled.		en [Atlassian]						
	CRUC-5735	XSS vulnerability in Crucible Author Mapping	Vitaly Osipov [Atlassian]	Andrew Lui [Atlassian Technical Writer]		Closed	Fixed	Apr 21, 2011	May 31, 2011
	CRUC-5734	XSS vulnerability in Crucible's Snippets	Vitaly Osipov [Atlassian]	Andrew Lui [Atlassian Technical Writer]		Closed	Fixed	Apr 21, 2011	May 31, 2011
	CRUC-5652	After 2.5 upgrade indexing stops with error "Changeset comment messages may not be null or empty"	Michael Studman [Atlassian]	Gurleen Anand [Atlassian]		Closed	Fixed	Feb 16, 2011	Mar 07, 2011
	CRUC-5645	Files that are added/moved should take up the whole width of the pane, even if side by side view is selected	Geoff Crain [Atlassian]	Joe Xie [atlassian]		Closed	Fixed	Feb 25, 2011	Mar 02, 2011

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	CRUC-5643	No vertical scroll bar visible when adding change set to Crucible review under IE 7.0	Craig Sharkie [Atlassian]	Felipe Kraemer [Atlassian]	↓	Closed	Fixed	Feb 24, 2011	Mar 04, 2011
	CRUC-5641	NullPointerException in REST search reviews for terms (because of an invalid HQL query)	Anna Buttfield [Atlassian]	Pierre-Etienne Poirot [Atlassian]	↑	Closed	Fixed	Feb 22, 2011	Mar 07, 2011
	CRUC-5636	JavaScript syntax highlighter does not highlight undefined and delete keywords	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]	↓	Closed	Fixed	Feb 21, 2011	Feb 22, 2011
	CRUC-5635	Defect classification screens show id instead of label	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]	↓	Closed	Fixed	Feb 21, 2011	Feb 22, 2011
	CRUC-5626	Git patch parsing throws a NPE	Anna Buttfield [Atlassian]	Anna Buttfield [Atlassian]	↓	Closed	Fixed	Feb 16, 2011	Mar 09, 2011
	CRUC-	Getting	Anna	Anna	↓	Clos	Fixed	Feb 15,	Apr 07,

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	5622	the list of projects via the api (either rest-service/projects-v1 or projectService.getAllProjects) fails with a LazyInitializationException	Buttfield [Atlassian]	Buttfield [Atlassian]		ed		2011	2011
	CRUC-5616	Empty responses from p4 commands cause NullPointerException	Tom Davies [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	Feb 11, 2011	Apr 08, 2011
	CRUC-5615	java.lang.NoClassDefFoundError: org/tigris/subversion/javahl/SVNClient thrown on startup	Tom Davies [Atlassian]	Tom Davies [Atlassian]		Closed	Fixed	Feb 10, 2011	Jul 11, 2011
	CRUC-5539	Problem with handling files with spaces	Ian Grunert [Atlassian]	Anton Mazkovoi [Atlassian]		Closed	Fixed	Jan 31, 2011	Mar 06, 2011
	CRUC-5429	Error generating FishEye backup on Windows	Adam Ahmed [Atlassian]	Felipe Kraemer [Atlassian]		Closed	Fixed	Jan 19, 2011	Apr 06, 2011

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	CRUC-4984	"that is unreviewed" filter is broken	Adam Ahmed [Atlassian]	Agnes Ro [Atlassian]	↑	Closed	Fixed	Nov 18, 2010	Feb 16, 2011
	CRUC-4787	Patch reviews from mercurial diffs don't anchor to their repository	Geoff Crain [Atlassian]	Nicolas Venegas	↓	Closed	Fixed	Nov 03, 2010	Nov 15, 2011
	CRUC-3885	No full context when anchoring patches from CVS	Geoff Crain [Atlassian]	Andrew Myers [Atlassian]	↓	Closed	Fixed	Aug 06, 2010	Mar 02, 2011

1 more issues

From 2.5.0 to 2.5.1

10 February 2011

This is a bug fix release. The complete list of issues is below.

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5612	Make Oracle multidb tests support testing of upgrades	Michael Studman [Atlassian]	Michael Studman [Atlassian]	↓	Closed	Fixed	Feb 09, 2011	Feb 16, 2011
	CRUC-5609	Review rss feed provides no way to navigate to review in thunderbird	Seb Ruiz [Atlassian]	Brydie McCoy [Atlassian]	↑	Closed	Fixed	Feb 09, 2011	Feb 09, 2011
	CRUC-5608	Cannot Edit Per-Re	Jason Hinch [Atlassi	Dylan Hansen [Atlassi	↓	Closed	Fixed	Feb 08, 2011	Jun 23, 2011

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		pository Authentication Settings	an]	an]					
	CRUC-5599	Upgrade scripts do not always create the same schema as scripts to create a new database	Michael Studman [Atlassian]	Michael Studman [Atlassian]	↓	Closed	Fixed	Feb 07, 2011	Feb 16, 2011
	CRUC-5597	The "Tabs" on the statistics panel of the "Project View" do not work in JIRA 4.2.3 and JIRA 4.3	Joe Xie [atlassian]	Brenden Bain [Atlassian]	↓	Closed	Fixed	Feb 06, 2011	Feb 14, 2011
	CRUC-5594	Adding an AppLink to a "standalone Crucible" creates a FishEye configuration that is unusable.	Luis Miranda [Atlassian]	Brenden Bain [Atlassian]	↑	Closed	Fixed	Feb 04, 2011	Feb 14, 2011
	CRUC-5581	UAL webitem link for	Luis Mirand	Joe Xie [atlassian]	↓	Closed	Fixed	Feb 03, 2011	Feb 14, 2011

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		fisheye configuration links to a page that shows all possible options, even if those options are global and will not apply to the instance being edited	a [Atlassian]							
	CRUC-5574	Update "refresh cache" links to synch form App Links as well.	Joe Xie [atlassian]	Mark Lassau [Atlassian]		Closed	Fixed	Feb 03, 2011	Feb 15, 2011
	CRUC-5526	FishEyeInstance gets re-created on JIRA restart	Joe Xie [atlassian]	Luis Miranda [Atlassian]		Closed	Fixed	Jan 31, 2011	Feb 14, 2011
	CRUC-5475	Create func tests for all search result pages	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]		Closed	Fixed	Jan 21, 2011	Feb 20, 2011
	CRUC-5426	Add a link in admin UI to UAL admin screen	Joe Xie [atlassian]	Luis Miranda [Atlassian]		Closed	Fixed	Jan 18, 2011	Feb 15, 2011
	CRUC-5400	On Plugin startup, synchr	Joe Xie [atlassian]	Mark Lassau [Atlassian]		Closed	Fixed	Jan 18, 2011	Feb 14, 2011

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		onise App Links								
	CRUC-5188	Update admin UI	Mark Lassau [Atlassian]	Joe Xie [atlassian]		Closed	Fixed	Dec 14, 2010	Feb 14, 2011
	CRUC-5183	Extend oauth services to REST resources (such as gadgets)	Joe Xie [atlassian]	Joe Xie [atlassian]		Closed	Fixed	Dec 14, 2010	Feb 14, 2011
	CRUC-5156	upgrade tasks to create Application Links for existing legacy links on plugin startup	Joe Xie [atlassian]	Joe Xie [atlassian]		Closed	Fixed	Dec 13, 2010	Feb 14, 2011
	CRUC-5154	Add support for OAuth authentication	Joe Xie [atlassian]	Joe Xie [atlassian]		Closed	Fixed	Dec 13, 2010	Feb 14, 2011
	CRUC-5026	Activity Stream Handler incorrectly uses Source.getChangeset(csid) to validate a changeset ID	Tom Davies [Atlassian]	Brendan Humphreys [Atlassian]		Closed	Fixed	Nov 23, 2010	Nov 15, 2011

Crucible 2.5 Upgrade Guide

Below are some important notes on upgrading to **Crucible 2.5**. For details of the new features and improvements in this release, please read the Crucible 2.5 Release Notes.

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On this page:

- Upgrade Notes
- Upgrade Procedure
- Checking for Known Issues and Troubleshooting the Crucible Upgrade

Upgrade Notes

- **Crucible 2.5:**
  - This is only relevant when Crucible is run in conjunction with FishEye.
    This release will trigger an automatic upgrade of the metadata index the first time Crucible is started. Crucible is still usable while this task runs in the background, however the FishEye search functionality will not contain all results. A warning will appear in the UI until the upgrade has complete. Please also see How do I Avoid Long Reindex Times When I Upgrade?

Upgrade Procedure

Before you begin

- Test your upgrades in your test environment before rolling into production.
- Back up your **entire** Crucible instance (see Backing up and restoring Crucible data), i.e.
  - If you are backing up your Crucible instance via the Admin interface, tick all of the '**Include**' checkboxes (e.g. plugins, templates, uploads, SQL database, etc).
  - If you are backing up your Crucible instance using the command-line interface, do not use any exclusion options.

If you are already running a version of Crucible, please refer to the Crucible upgrade guide.

Checking for Known Issues and Troubleshooting the Crucible Upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues**. Sometimes we find out about a problem with the latest version of Crucible after we have released the software. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the Crucible 2.5 Known Issues in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to troubleshooting upgrades in the Crucible Knowledge Base.
- If you encounter a problem during the upgrade and cannot solve it, please create a support ticket and one of our support engineers will help you.

RELATED TOPICS

Crucible 2.5 Release Notes

Crucible FAQ

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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
- Support Policies
  - Bug Fixing Policy
  - How to Report a Security Issue
  - New Features Policy
  - Patch Policy
  - Security Advisory Publishing Policy
  - Security Patch Policy
  - Severity Levels for Security Issues
- Troubleshooting
  - Crucible freezes unexpectedly
  - JIRA Integration Issues
  - Problems with very long comments and MySQL migration
- Contributing to the Crucible Documentation
  - Crucible Documentation in Other Languages

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

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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 users to store arbitrary name/value pairs associated with files and directories, called SVN properties. These properties can be used by users for storing metadata and are also used by Subversion (e.g. for storing where code is branched from)

These name/value pairs can only be changed as part of a changeset / commit in Subversion. As such, you will have changesets with purely changes to SVN properties, or changesets with a mix of textual changes and changes to SVN properties. Crucible 2.6 introduced review creation without metadata to prevent SVN properties from being included in reviews.

This functionality is enabled by default, and affects the following functionality:

- Creating a review — The "Create Review" link is disabled in the activity stream, dashboard and changeset page for any changeset where all the file revisions only differ by SVN properties.
- Adding content to a review — SVN property-only changesets cannot be added to the review from the 'Add Content' dialog. Changesets with a mix of SVN property changes and textual changes can be added to

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the review, however only the file revisions with textual changes are added. File revisions with both textual changes and SVN property changes are always added.
(Note, explicitly adding a particular file revision to a review is still permitted, regardless of whether it is a textual change or metadata-only change.)

The prime motivation behind the metadata checking is to prevent the creation of reviews with a large number of files which have no effective content changes. Sometimes this sort of problem is seen when there is some wholesale SVN property change - e.g. setting the line endings on all files (`svn:eol-style`). In that respect, this is a performance setting as it avoids the creation of large reviews. The properties themselves are still stored and managed in FishEye. There is no major performance impact on including properties in reviews.

Disabling this functionality can be done by starting up Crucible with the following system property:
`-Dcrucible.detect.metadata.revision.changes=false`

How to Automate Daily Crucible Backups

Configuring Crucible backups is easy. To set daily Crucible backups, open the administration page, click the '**Backup**' link under '**System**' on the left navigation bar, and simply follow the instructions set out on the Backing up and restoring Crucible data page.

Licensing FAQ

Crucible Licensing FAQ

- What happens if I decide to stop using FishEye with Crucible — Crucible can be run as an application alone, without FishEye. However, if you decide to stop using FishEye with Crucible, you will lose certain functionality and will need to make configuration changes.
- Do I need a FishEye licence to run Crucible? — FishEye and Crucible are separate products. They can be run separately, and they can also be run together.
- Advantages of Native Repository Access over lightSCM plugins

What happens if I decide to stop using FishEye with Crucible

Crucible can be run as an application alone, without FishEye. However, if you decide to stop using FishEye with Crucible, you will lose certain functionality and will need to make configuration changes.

On this page:

- How do I run Crucible without FishEye?
- How is Crucible without FishEye different from using Crucible with FishEye?
  - Conducting Reviews
  - Viewing Repositories/Files
  - Charts
- Can I still use lightSCM plugins with Crucible?

How do I run Crucible without FishEye?

- **Have a valid Crucible license but not a FishEye license**
  To run Crucible without FishEye you need to have a **valid Crucible license but not a FishEye license** o r if you want to disable FishEye enter `Disabled` in the license field. Crucible standalone will actually use a "light" mode of FishEye that comes pre-bundled and does not need to be installed separately. For more information on Crucible with light FishEye, see How is Crucible without FishEye different from using Crucible with FishEye? below.
- **No need to reconnect your repositories**
  Any repositories that you have currently defined in FishEye will not be visible in Crucible after removing FishEye (no more `Source` tab). The repositories however, will continue to update as usual without any intervention. You can add additional repositories as described in the FishEye documentation. Note, all rep ositories supported in FishEye are supported in light FishEye.
  Legacy "lightSCM" plugins, like the Crucible Subversion SCM plugin, will still work. However, the functionality will be limited compared to using Crucible with light FishEye. See the Can I still use lightSCM plugins with Crucible? section below for more information.

How is Crucible without FishEye different from using Crucible with FishEye?

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The following changes in functionality will occur if you use Crucible without FishEye (i.e. use Crucible with "light" FishEye).

Conducting Reviews

- When using Iterative reviews in Crucible, you will not be prompted when a new version of a file is available.

Viewing Repositories/Files

- Files and changesets displayed in activity streams (e.g. the dashboard activity stream) will not render as links to the relevant files/changesets.
- You will not be able to see your content roots and repositories associated with projects.
- You will no longer be able to see repository lists and browse repositories using the '**Source**' tab.

Charts

- You will not be able to view charts or code metrics.

Can I still use lightSCM plugins with Crucible?

Legacy "lightSCM" plugins, like the Crucible Subversion SCM plugin, will still work with Crucible. However, we recommend that you use the "light" FishEye implementation that is bundled with Crucible, as it supersedes the lightSCM plugins.

For more information, please read this FAQ: Advantages of Native Repository Access over lightSCM plugins.

Do I need a FishEye licence to run Crucible?

FishEye and Crucible are separate products. They can be run separately, and they can also be run together.

We recommend that you run Crucible together with FishEye. If you choose to run Crucible alone without FishEye, you will have access to your repositories via the "light" FishEye implementation bundled with Crucible. However, a number of FishEye's advanced features will not be available to you, including pre-caching repository content (for improved performance), the ability to search and browse through repositories and FishEye's activity graphs.

For more information, please read the following FAQ: What happens if I decide to stop using FishEye with Crucible

Advantages of Native Repository Access over lightSCM plugins

Prior to Crucible 2.4, running Crucible without FishEye required the use of "lightSCM" plugins (like the Crucible Subversion SCM plugin). From version 2.4, Crucible provides native repository access which supersedes Crucible's bundled lightSCM plugins. Third-party lightSCM plugins are unaffected and will continue to work with Crucible. The bundled plugins will still be available, so your existing configurations will also continue to work unchanged.

If you are currently using any of the bundled lightSCM plugins, we recommend that you migrate to using native repository access for the following reasons:

- Atlassian's lightSCM plugins (not lightSCM itself) are being deprecated, i.e. we will not update any of the bundled lightSCM plugins after the 2.4 release.
- It is easier for us to support and maintain a single implementation of our SCM interfaces, rather than support the standard FishEye access and the lightSCM implementations.
- Native repository access provides full support for SCMs for which there are no current lightSCM plugin implementations, including CVS and Mercurial.
- Native repository access provides additional functionality that is not available in the lightSCM plugins including:
  - Viewable commits in the activity streams (e.g. the dashboard activity stream).
  - Repositories administration via the administration console.
  - Easier review creation due to the ability to search and browse the repository using the full power of FishEye. For example, browsing for a file to add to a new review (see Adding content to the review).
- Improved performance of native repository access over the lightSCM plugins. The lightSCM plugins

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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.

Support Policies

Welcome to the support policies index page. Here, you'll find information about how Atlassian Support can help you and how to get in touch with our helpful support engineers. Please choose the relevant page below to find out more.

- Bug Fixing Policy
- How to Report a Security Issue
- New Features Policy
- Patch Policy
- Security Advisory Publishing Policy
- Security Patch Policy
- Severity Levels for Security Issues

To request support from Atlassian, please raise a support issue in our online support system. To do this, visit support.atlassian.com, log in (creating an account if need be) and create an issue under Crucible. Our friendly support engineers will get right back to you with an answer.

Bug Fixing Policy

Summary

- Atlassian Support will help with workarounds and bug reporting.
- Critical bugs will generally be fixed in the next maintenance release.
- Non critical bugs will be scheduled according to a variety of considerations.

Raising a Bug Report

Atlassian Support is eager and happy to help verify bugs — we take pride in it! Please open a support request in our support system providing as much information as possible about how to replicate the problem you are experiencing. We will replicate the bug to verify, then lodge the report for you. We'll also try to construct workarounds if they're possible.

Customers and plugin developers are also welcome to open bug reports on our issue tracking systems directly. Use http://jira.atlassian.com for the stand-alone products and http://studio.atlassian.com for JIRA Studio and Atlassian OnDemand.

When raising a new bug, you should rate the priority of a bug according to our JIRA usage guidelines. Customers should watch a filed bug in order to receive e-mail notification when a "Fix Version" is scheduled for release.

How Atlassian Approaches Bug Fixing

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Maintenance (bug fix) releases come out more frequently than major releases and attempt to target the most critical bugs affecting our customers. The notation for a maintenance release is the final number in the version (ie the 1 in 3.0.1).

If a bug is critical (production application down or major malfunction causing business revenue loss or high numbers of staff unable to perform their normal functions) then it will be fixed in the next maintenance release provided that:

- The fix is technically feasible (i.e. it doesn't require a major architectural change).
- It does not impact the quality or integrity of a product.

For non-critical bugs, the developer assigned to fixing bugs prioritises the non-critical bug according to these factors:

- How many of our supported configurations are affected by the problem.
- Whether there is an effective workaround or patch.
- How difficult the issue is to fix.
- Whether many bugs in one area can be fixed at one time.

The developers responsible for bug fixing also monitor comments on existing bugs and new bugs submitted in JIRA, so you can provide feedback in this way. We give high priority consideration to security issues.

When considering the priority of a non-critical bug we try to determine a 'value' score for a bug which takes into account the severity of the bug from the customer's perspective, how prevalent the bug is and whether roadmap features may render the bug obsolete. We combine this with a complexity score (i.e. how difficult the bug is). These two dimensions are used when developers self serve from the bug pile.

Further reading

See Atlassian Support Offerings for more support-related information.

How to Report a Security Issue

Finding and Reporting a Security Issue

If you find a security issue in the product, open an issue on https://jira.atlassian.com in the relevant project.

- Set the **security level** of the bug to '**Reporters and Developers**'.
- Set the priority of the bug to 'Blocker'.
- Provide as much information on reproducing the bug as possible.

All communication about the security issue should be performed through JIRA, so that Atlassian can keep track of the issue and get a patch out as soon as possible.

If you cannot find the right project to file your issue in, email the details to security@atlassian.com.

When reporting a security vulnerability, please keep in mind the following:

We need a technical description that allows us to assess exploitability and impact of the issue.

- Provide steps to reproduce the issue, including any URLs or code involved.
- If you are reporting an XSS, your exploit should at least pop up an alert in the browser. It is much better if the XSS exploit shows user's authentication cookie.
- If you are reporting an SQL injection, we want to see the exploit extracting database data, not just producing an error message.
- HTTP request / response captures or simply packet captures are also very useful to us.

Please refrain from sending us links to non-Atlassian web sites, or reports in PDF / DOC / EXE files. Image files are ok. Make sure the bug is exploitable by someone other than the user himself (e.g. "self-XSS").

Without this information it is not possible to assess your report and it is unlikely to be addressed.

We are not looking for the reports listing generic "best practice" issues such as:

- Specific cookies being not marked as Secure or HTTPOnly

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- Presence or absence of HTTP headers (X-Frame-Options, HSTS, CSP, nosniff and so on)
- Clickjacking
- Mixed HTTP and HTTPS content
- Auto-complete enabled or disabled
- SSL-related issues

Further reading

See Atlassian Support Offerings for more support-related information.

New Features Policy

Summary

- We encourage and display customer comments and votes openly in our issue tracking system, http://jira.atlassian.com.
- We do not publish roadmaps.
- Product Managers review our most popular voted issues on a regular basis.
- We schedule features based on a variety of factors.
- Our Atlassian Bug Fixing Policy is distinct from our Feature Request process.
- Atlassian provides consistent updates on the top 20 feature/improvement requests (in our issue tracker systems).

How to Track what Features are Being Implemented

When a new feature or improvement is scheduled, the 'fix-for' version will be indicated in the JIRA issue. This happens for the upcoming release only. We maintain roadmaps for more distant releases internally, but because these roadmaps are often pre-empted by changing customer demands, we do not publish them.

How Atlassian Chooses What to Implement

In every major release we *aim* to implement highly requested features, but it is not the only determining factor. Other factors include:

- **Customer contact**: We get the chance to meet customers and hear their successes and challenges at Atlassian Summit, Atlassian Unite, developer conferences, and road shows.
- **Customer interviews**: All product managers at Atlassian do customer interviews. Our interviews are not simply to capture a list of features, but to understand our customers' goals and plans.
- **Community forums**: There are large volumes of posts on answers, of votes and comments on jira.atlassian.com, and of conversations on community forums like groups on LinkedIn.
- **Customer Support**: Our support team provides clear insights into the issues that are challenging for customers, and which are generating the most calls to support
- **Atlassian Experts**: Our Experts provide insights into real-world customer deployments, especially for customers at scale.
- **Evaluator Feedback**: When someone new tries our products, we want to know what they liked and disliked and often reach out to them for more detail.
- **In product feedback**: The JIRA Issue Collectors that we embed our products for evaluators and our Early Access Program give us a constant pulse on how users are experiencing our product.
- **Usage data:** Are customers using the features we have developed?
- **Product strategy:** Our long-term strategic vision for the product.

How to Contribute to Feature Development

Influencing Atlassian's release cycle
We encourage our customers to vote on feature requests in JIRA. The current tally of votes is available online in our issue tracking system, http://jira.atlassian.com. Find out if your improvement request already exists. If it does, please vote for it. If you do not find it, create a new feature or improvement request online.

Extending Atlassian Products
Atlassian products have powerful and flexible extension APIs. If you would like to see a particular feature implemented, it may be possible to develop the feature as a plugin. Documentation regarding the plugin APIs is available. Advice on extending either product may be available on the user mailing-lists, or at Atlassian Answers.

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If you require significant customisations, you may wish to get in touch with our partners. They specialise in extending Atlassian products and can do this work for you. If you are interested, please contact us.

Further reading

See Atlassian Support Offerings for more support-related information.

Patch Policy

Patch Policy

Atlassian will only provide software patches in extremely unusual circumstances. If a problem has been fixed in a newer release of the product, Atlassian will request that you upgrade your instance to fix the issue. If it is deemed necessary to provide a patch, a patch will be provided for the current release and the last maintenance release of the last major version only.

Patches are issued under the following conditions:

- The bug is critical (production application down or major malfunction causing business revenue loss or high numbers of staff unable to perform their normal functions).
  AND
- A patch is technically feasible (i.e., it doesn't require a major architectural change)
  OR
- The issue is a security issue, and falls under our Security Patch Policy.

Atlassian does not provide patches for non-critical bugs.

Provided that a patch does not impact the quality or integrity of a product, Atlassian will ensure that patches supplied to customers are added to the next maintenance release. Customers should watch a filed bug in order to receive e-mail notification when a "Fix Version" is scheduled for release.

Patches are generally attached to the relevant http://jira.atlassian.com issue.

Further reading

See Atlassian Support Offerings for more support-related information.

Security Advisory Publishing Policy

Publication of Security Advisories

When a critical severity security vulnerability in an Atlassian product is discovered and resolved, Atlassian will inform customers through the following mechanisms:

- We will post a security advisory in the latest documentation of the affected product at the same time as releasing a fix for the vulnerability.
- We will send a copy of all posted security advisories to the **'Technical Alerts' mailing list** for the product concerned.
  Note: To manage your email subscriptions and ensure you are on this list, please go to my.atlassian.com and click 'Communications Centre' near the top right of the page.
- If the person who reported the vulnerability wants to publish an advisory through some other agency, such as CERT, we will assist in the production of that advisory and link to it from our own.

If you want to track non-critical severity security vulnerabilities, you need to monitor the issue trackers for the relevant products on http://jira.atlassian.com. For example, https://jira.atlassian.com/browse/JRA for JIRA and https://jira.atlassian.com/browse/CONF for Confluence. Security issues in trackers will be marked with a "security" label. All security issues will be listed in the release notes of the release where they have been fixed, similar to other bugs.

One of the ways to monitor updates to security issues is subscribing to the results of a sample search via email or RSS.

Further reading

See Atlassian Support Offerings for more support-related information.

Security Patch Policy

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Product Security Patch Policy

Atlassian makes it a priority to ensure that customers' systems cannot be compromised by exploiting vulnerabilities in Atlassian products.

Scope

This page describes when and how we release security patches and security upgrades for our products. It does not describe the whole of disclosure process that we follow. It also excludes OnDemand, since OnDemand will always be patched by Atlassian without additional notifications.

Critical vulnerabilities

When a **Critical** security vulnerability is discovered by Atlassian or reported by a third party, Atlassian will do all of the following:

- Issue a new, fixed release for the current version of the affected product as soon as possible, usually in a few days.
- Issue a binary patch for the current release.
- Issue a binary patch for the latest maintenance release of the previous version of the product.
- Patches for older versions or releases normally will not be issued.

Patches will be attached to the relevant JIRA issue. You can use these patches as a "stop-gap" measure until you upgrade your installation in order to fully fix the vulnerability.

Non-critical vulnerabilities

When a security issue of a **High, Medium or Low** severity is discovered, Atlassian will do all of the following:

- Include the fix into the next scheduled release, both for the current and previous maintenance versions.
- Where practical, provide new versions of plugins or other components of the product that can be upgraded independently.

You should upgrade your installation in order to fix the vulnerability.

Other information

Severity level of vulnerabilities is calculated based on Severity Levels for Security Issues.

Visit our general Atlassian Patch Policy as well.

Examples

Example 1: A critical severity vulnerability is found in a (hypothetical current release) JIRA 5.3.2. The last bugfix release in 5.2.x branch was 5.2.3. In this case, a patch will be created for 5.3.2 and 5.2.3. In addition, new bugfix releases, 5.3.3 and 5.2.4, which are free from this vulnerability, will be created in a few days.

Example 2: A high or medium severity vulnerability is found in the same release as in the previous example. The fix will be included into the currently scheduled releases 5.3.3 and 5.2.4. Release schedule will not be brought forward and no patches will be issued. If the vulnerability is in a plugin module, then a plugin upgrade package may still be supplied.

Further reading

See Atlassian Support Offerings for more support-related information.

Severity Levels for Security Issues

Severity Levels

Atlassian security advisories include a severity level. This severity level is based on our self-calculated CVSS score for each specific vulnerability. CVSS is an industry standard vulnerability metric. You can learn more about CVSS at FIRST.org web site.

CVSS scores are mapped into the following severity ratings:

- Critical
- High

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- Medium
- Low

An approximate mapping guideline is as follows:

CVSS score range	Severity in advisory
0 – 2.9	Low
3 – 5.9	Medium
6.0 – 7.9	High
8.0 – 10.0	Critical

Below is a summary of the factors which illustrate types of vulnerabilities usually resulting in a specific severity level. Please keep in mind that this rating does not take into account details of your installation.

Severity Level: Critical

Vulnerabilities that score in the critical range usually have most of the following characteristics:

- Exploitation of the vulnerability results in root-level compromise of servers or infrastructure devices.
- The information required in order to exploit the vulnerability, such as example code, is widely available to attackers.
- Exploitation is usually straightforward, in the sense that the attacker does not need any special authentication credentials or knowledge about individual victims, and does not need to persuade a target user, for example via social engineering, into performing any special functions.

For critical vulnerabilities, is advised that you patch or upgrade as soon as possible, unless you have other mitigating measures in place. For example, if your installation is not accessible from the Internet, this may be a mitigating factor.

Severity Level: High

Vulnerabilities that score in the high range usually have some of the following characteristics:

- The vulnerability is difficult to exploit.
- Exploitation does not result in elevated privileges.
- Exploitation does not result in a significant data loss.

Severity Level: Medium

Vulnerabilities that score in the medium range usually have some of the following characteristics:

- Denial of service vulnerabilities that are difficult to set up.
- Exploits that require an attacker to reside on the same local network as the victim.
- Vulnerabilities that affect only nonstandard configurations or obscure applications.
- Vulnerabilities that require the attacker to manipulate individual victims via social engineering tactics.
- Vulnerabilities where exploitation provides only very limited access.

Severity Level: Low

Vulnerabilities in the low range typically have very little impact on an organisation's business. Exploitation of such vulnerabilities usually requires local or physical system access.

Further reading

See Atlassian Support Offerings for more support-related information.

Troubleshooting

Crucible Troubleshooting
• Crucible freezes unexpectedly • JIRA Integration Issues • Problems with very long comments and MySQL migration — Affects Version

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Crucible Troubleshooting

The most common cause of FishEye/Crucible issues is an incorrect symbolic setup (trunk/branch/tag) for Subversion repositories. If you are using Subversion and your initial index is taking forever, double-check that your symbolic setup matches your repository.

FishEye runs with the default Java heap of 64 megabytes. This is sometimes problematic for FishEye, especially for Subversion repositories during the initial scan. You can give FishEye's JVM more memory by setting the FISHEYE_OPTS environment variable.

Starting Crucible with the command line options `--debug --debug-perf` will print a lot of information to Crucible's logs. This can give you an insight into what is happening and possibly where you are stuck. Attach these logs along with your `config.xml` to an Atlassian support ticket, to speed up your support request.

Crucible freezes unexpectedly

Issue Symptoms

If your Crucible 2.0 or 2.0.1 instance freezes unexpectedly, this could be caused by a known issue with Crucible and MySQL database technology.

This issue manifests itself in some Crucible pages returning a server timeout error. To identify the issue, check the Crucible error log. For this issue, the following output will appear in the error log:

```
2009-07-15 15:34:45,555 ERROR [btpool0-519] fisheye.app
HibernateUtil-commitTransaction - Commit fail msg-0:Could not execute
JDBC batch update
2009-07-15 15:34:45,556 ERROR [btpool0-519] fisheye.app
HibernateUtil-commitTransaction - Commit fail msg-1:Lock wait timeout
exceeded; try restarting transaction
2009-07-15 15:34:45,557 ERROR [btpool0-519] fisheye.app
HibernateUtil-commitTransaction - Commit failed rolling back.
...
...
Caused by: java.sql.BatchUpdateException: Lock wait timeout exceeded;
try restarting transaction
 at
com.mysql.jdbc.ServerPreparedStatement.executeBatch(ServerPreparedStatem
ent.java:647)
 at
com.mchange.v2.c3p0.impl.NewProxyPreparedStatement.executeBatch(NewProxy
PreparedStatement.java:1723)
 at
org.hibernate.jdbc.BatchingBatcher.doExecuteBatch(BatchingBatcher.java:4
8)
 at
org.hibernate.jdbc.AbstractBatcher.executeBatch(AbstractBatcher.java:246
)
 ... 163 more
```

The Crucible error log can be found under `FISHEYE_INST/var/log/fisheye-error.log.YYYY-MM-DD` .

See the JIRA issue for more information.

Workaround

Until the issue is solved, the suggested course of action is to restart your Crucible instance. This will return Crucible to normal operation.

The Crucible development team is actively working on a solution and this be part of an upcoming point release of Crucible.

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Requesting Support

If you require assistance in resolving the problem, please raise a support request under the Crucible project.

JIRA Integration Issues

Users are mapped to their own accounts when using Trusted Applications.

If you (or the general account used for JIRA access, if not using Trusted Applications) do not have the permissions to carry out the JIRA actions linked from Crucible, an error will occur. Depending on the error returned from JIRA, Crucible may not display the error correctly or display it at all, simply reporting that "An error has occurred". To investigate what the error was, you can access the Crucible debug log, named `fisheye-debug.log.YYYY-MM-DD` under the `dist.inst/var/log` folder of your Crucible installation. In the debug log, look for the date and time when your error took place. Here, you will be able to follow the links and see what error the JIRA instance was producing by clicking through to JIRA.

If you are using JIRA 4.0 you will not be able to create subtasks in versions of Crucible prior to 2.0.5. If you are affected by this bug, please upgrade to at least 2.0.6 (2.0.5 is affected by another bug CRUC-2471).

Problems with very long comments and MySQL migration

Affects Version

This issue was introduced in Crucible 2.0 and fixed in Crucible 2.1.

Issue Symptoms

There is a known issue with Crucible 2.0.x and very long comments when migrating your database to MySQL. In some circumstances, this might result in truncation of very long comments, causing data loss.

Depending on your MySQL configuration, you may see an error message like this while migrating to MySQL, causing the migration to fail:

```
2009-07-16 16:56:12,390 ERROR [ThreadPool1] fisheye.app
com.cenqua.crucible.actions.admin.database.DBEditHelper-doGet -
Database migration failed:
java.sql.BatchUpdateException: Data truncation: Data too long for column
'cru_message' at row 1
java.sql.BatchUpdateException: Data truncation: Data too long for column
'cru_message' at row 1
```

You may not see the message if you are running MySQL with default settings.

For more information, see the JIRA issue.

Workaround

If your data contains very long comments or review descriptions (longer than 21,845 multibyte unicode characters), consider avoiding use of MySQL until you can upgrade the product. Alternatively, use PostgreSQL or the default (built-in) HSQLDB database.

This issue is now resolved. This issue was introduced in Crucible 2.0 and fixed in Crucible 2.1.

Requesting Support

If you require assistance in resolving the problem, please raise a support request under the Crucible project.

Contributing to the Crucible Documentation

Would you like to share your Crucible hints, tips and techniques with us and with other Crucible users? We welcome your contributions.

On this page:

- Blogging your Technical Tips and Guides – Tips of the Trade

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- Contributing Documentation in Other Languages
- Updating the Documentation Itself
  - Getting Permission to Update the Documentation
  - Our Style Guide
  - How we Manage Community Updates

Blogging your Technical Tips and Guides – Tips of the Trade

Have you written a blog post describing a specific configuration of Crucible or a neat trick that you have discovered? Let us know, and we will link to your blog from our documentation. More....

Contributing Documentation in Other Languages

Have you written a guide to Crucible in a language other than English, or translated one of our guides? Let us know, and we will link to your guide from our documentation. More....

Updating the Documentation Itself

Have you found a mistake in the documentation, or do you have a small addition that would be so easy to add yourself rather than asking us to do it? You can update the documentation page directly

Getting Permission to Update the Documentation

Please submit the **Atlassian Contributor License Agreement.**

Our Style Guide

Please read our short guidelines for authors.

How we Manage Community Updates

Here is a quick guide to how we manage community contributions to our documentation and the copyright that applies to the documentation:

- **Monitoring by technical writers.** The Atlassian technical writers monitor the updates to the documentation spaces, using RSS feeds and watching the spaces. If someone makes an update that needs some attention from us, we will make the necessary changes.
- **Wiki permissions.** We use wiki permissions to determine who can edit the documentation spaces. We ask people to sign the Atlassian Contributor License Agreement (ACLA) and submit it to us. That allows us to verify that the applicant is a real person. Then we give them permission to update the documentation.
- **Copyright.** The Atlassian documentation is published under a Creative Commons CC BY license. Specifically, we use a Creative Commons Attribution 2.5 Australia License. This means that anyone can copy, distribute and adapt our documentation provided they acknowledge the source of the documentation. The CC BY license is shown in the footer of every page, so that anyone who contributes to our documentation knows that their contribution falls under the same copyright.

RELATED TOPICS

Author Guidelines
Atlassian Contributor License Agreement

Crucible Documentation in Other Languages

Below are some links to Crucible documentation written in other languages. In some cases, the documentation may be a translation of the English documentation. In other cases, the documentation is an alternative guide written from scratch in another language. This page presents an opportunity for customers and community authors to share documentation that they have written in other languages.

Please be aware that these are external guides.
Most of the links point to external sites, and some of the information is relevant to a specific release of Crucible. Atlassian provides these links because the information is useful and relevant at the time it was written. Please check carefully whether the information is still relevant when you read it, and whether it is relevant to your version of Crucible. The information in the linked guides has not been tested or reviewed by Atlassian.

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On this page:

- No guides yet

None
No guides yet We do not yet have any guides to link here. Be the first to suggest one!

Adding Your Own Guide to this Page

Have you written a guide for Crucible in another language? Add a comment to this page, linking to your guide. We will include it if the content fits the requirements of this page.

Giving Feedback about One of the Guides

If you have feedback on one of the guides listed above, please give the feedback to the author of the linked guide.

If you want to let us know how useful (or otherwise) one of these guides is, please add a comment to this page.

Other Sources of Information

Crucible documentation
Atlassian website
Atlassian blog
Crucible plugins

Glossary

Code review terminology can be confusing as there are many different words for the concepts, roles and process. Crucible has adopted the following terms (click for definitions):

approve

authors in Crucible

code review

comment

creator

defect

moderator

participant

permission scheme

permissions in Crucible

projects in Crucible

review duration

reviewer

role

state

statement of objective

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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.

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permissions in Crucible

A *permission* is the ability to perform a particular action in Crucible, e.g. 'Create Review'.
Permissions are assigned to particular users, groups or review roles by means of permission schemes.

The following permissions are available:

Permission	Description	Default Assignees
Abandon	Ability to abandon (i.e. cancel) a review.	Creator Author Moderator
Approve	Ability to approve a review (i.e. issue it to the reviewers).	Creator Author Moderator
Close	Ability to close a review once it has been summarised.	Creator Author Reviewer Moderator
Comment	Ability to add or remove a comment to or from a review.	Creator Author Reviewer Moderator
Complete	Ability of a reviewer to change their individual review status to Complete.	Reviewer
Create	Ability to create a review.	All logged-in users
Delete	Ability to delete a review.	Creator Author Moderator
Edit Review Details	Ability to edit a review's details and change the set of revisions being reviewed.	Creator Author Reviewer Moderator
Re-Open	Ability to re-open a closed or abandoned review.	Creator Author Reviewer Moderator
Recover	Ability to resurrect an abandoned (i.e. cancelled) review.	Creator Author Reviewer Moderator
Reject	Ability to reject a review submitted for approval (i.e. prevent it from being issued to reviewers).	Creator Author Moderator
Submit	Ability to submit a review for approval (i.e. request that the review be issued to the reviewers).	Creator Author Moderator
Summarise	Ability to summarise a review. (Normally this would be done after all reviewers have completed their review.)	
Uncomplete	Ability of a reviewer to change their individual review status from Complete to Uncomplete.	Reviewer

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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.

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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.

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