# Contents

Crucible Documentation Home ............................................................... 5  
Getting Started ....................................................................................... 5  
Supported platforms .............................................................................. 6  
   End of Support Announcements for Crucible ........................................ 8  
   End of Support Announcement for IBM ClearCase .............................. 11  
Installing Crucible on Windows ............................................................. 12  
Running Crucible as a Windows service .................................................. 14  
Installing Crucible on Linux and Mac ..................................................... 17  
Configuring JIRA Integration in the Setup Wizard .................................... 21  
Starting to use Crucible .......................................................................... 28  
Using Crucible ......................................................................................... 35  
   Using the Crucible screens ................................................................ 36  
      Using the Review Dashboard .......................................................... 38  
      Browsing all reviews ..................................................................... 40  
      Browsing source files ................................................................... 41  
      Crucible Icons ............................................................................. 42  
      Searching Crucible ...................................................................... 43  
      Viewing people’s statistics in Crucible ........................................... 48  
      Browsing Projects ....................................................................... 52  
         Viewing Project Statistics ............................................................ 53  
      Changing your User Profile ........................................................... 55  
      Viewing Your Favourites ............................................................... 55  
         Using favourites ........................................................................ 57  
      Using Keyboard Shortcuts in Crucible ............................................ 60  
The Crucible workflow ........................................................................... 62  
   Defining your workflow ..................................................................... 66  
   Roles and Status Classifications ........................................................... 68  
Creating a review .................................................................................. 69  
   Creating a review from FishEye .......................................................... 72  
   Creating a review from JIRA .............................................................. 73  
   Creating a review from a URL ............................................................ 74  
   Creating a Snippet Review ............................................................... 74  
   Creating reviews from the command line ......................................... 75  
Adding content to the review ................................................................ 77  
   Iterative reviews .............................................................................. 82  
   Creating patch files for pre-commit reviews ...................................... 84  
Choosing reviewers ................................................................................ 91  
Performing the review .......................................................................... 94  
   Starting a review ............................................................................. 95  
   Adding comments .......................................................................... 97  
   Changset discussions .................................................................... 99  
Flagging defects .................................................................................... 100  
Creating JIRA issues from the review .................................................... 100  
Viewing reports .................................................................................... 102  
   Review Coverage report ................................................................. 104  
Completing your review ...................................................................... 108  
   Using the Review History Dialog ....................................................... 110  
   Using RSS feeds in Crucible .............................................................. 111  
   Using Wiki Markup in Crucible ........................................................ 111  
Tracking Crucible Review Metrics ......................................................... 116  
   Using Progress Tracking ................................................................. 116  
   Using Time Tracking ..................................................................... 118  
JIRA integration in Crucible .................................................................. 119  
Summarising and closing the review ...................................................... 121  
Managing your reviews ....................................................................... 123  
   Using Review Reminders ............................................................... 123
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>participant</td>
<td>266</td>
</tr>
<tr>
<td>permission scheme</td>
<td>266</td>
</tr>
<tr>
<td>permissions in Crucible</td>
<td>266</td>
</tr>
<tr>
<td>projects in Crucible</td>
<td>267</td>
</tr>
<tr>
<td>review duration</td>
<td>268</td>
</tr>
<tr>
<td>reviewer</td>
<td>268</td>
</tr>
<tr>
<td>role</td>
<td>268</td>
</tr>
<tr>
<td>state</td>
<td>268</td>
</tr>
<tr>
<td>statement of objective</td>
<td>268</td>
</tr>
<tr>
<td>users in Crucible</td>
<td>268</td>
</tr>
</tbody>
</table>
Crucible Documentation Home

Getting started
Installing Crucible on Windows
Installing Crucible on Linux and Mac
Starting to use Crucible
Using smart commits
Crucible user’s guide topics

Administering
All administration topics
Supported platforms
Using Crucible with FishEye
Creating a user
Configuring repositories

Extending Crucible...
Integrating with JIRA
APIs and add-ons

Latest release notes and changelog
Upgrading Crucible

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.
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 3.2.x and its minor releases.

Key: ✔️ = Supported  ❌ = Not Supported

<table>
<thead>
<tr>
<th>Java Version</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle JRE / JDK</td>
<td>1.6</td>
</tr>
<tr>
<td></td>
<td>1.7</td>
</tr>
</tbody>
</table>

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.
### Operating Systems

<table>
<thead>
<tr>
<th>Operating System</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Windows</td>
<td>✓</td>
</tr>
<tr>
<td>Linux</td>
<td>✓</td>
</tr>
<tr>
<td>Apple Mac OS X</td>
<td>✓</td>
</tr>
</tbody>
</table>

- **OpenJDK**: 1.7 (Linux only)

- **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.**

### Databases

<table>
<thead>
<tr>
<th>Database</th>
<th></th>
</tr>
</thead>
</table>
| 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.

<table>
<thead>
<tr>
<th>Database</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PostgreSQL</td>
<td>✓ 8.2, 8.3, 8.4</td>
</tr>
<tr>
<td>Oracle</td>
<td>✓ 11g</td>
</tr>
</tbody>
</table>

- **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
  - As of Crucible 3.2, support for MySQL 5.0 is deprecated and will be removed in Crucible 3.3. See End of Support Announcements for Crucible.

- **For PostgreSQL:**
  - As of Crucible 3.2, support for PostgreSQL 8.2 is deprecated, and will be removed in Crucible 3.3. See End of Support Announcements for Crucible.

<table>
<thead>
<tr>
<th>Database</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HSQLDB</td>
<td>✓ Bundled; for evaluation use only</td>
</tr>
</tbody>
</table>

- 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

<table>
<thead>
<tr>
<th>Web Browser</th>
<th></th>
</tr>
</thead>
</table>
| Microsoft Internet Explorer | ✓ 8.0, 9.0, 10.0  
                      | ✗ 6.0 and 7.0 are not supported |

- Minimum screen resolution of 1024x768. Recommended screen resolution of 1280x768 or...
<table>
<thead>
<tr>
<th>Version Control Systems</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subversion (SVN)</strong></td>
<td></td>
</tr>
<tr>
<td>Server:</td>
<td>✔ 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7</td>
</tr>
<tr>
<td>Client:</td>
<td>✔ SVNKit (bundled &amp; the default) ✔ Native JavaHL 1.7 ❌ Native JavaHL 1.6</td>
</tr>
<tr>
<td>FishEye 3.1, and later, supports SVN 1.7.x with the native JavaHL 1.7 client.</td>
<td></td>
</tr>
<tr>
<td>FishEye 3.1, and later, <strong>do not</strong> support SVN 1.7.x with the native JavaHL 1.6 client.</td>
<td></td>
</tr>
<tr>
<td>See Native support for SVN 1.7 for discussion.</td>
<td></td>
</tr>
<tr>
<td>Subversion 1.8 support is currently being assessed. FishEye does not yet work for file:// access to repositories created with Subversion 1.8.</td>
<td></td>
</tr>
<tr>
<td><strong>CVS (and CVSNT)</strong></td>
<td>✔ All versions</td>
</tr>
<tr>
<td>Perforce (P4)</td>
<td>✔ Client version 2007.3 or later ✔ Server version 2005.1 or later</td>
</tr>
<tr>
<td>The Server must support the ztag tagged protocol.</td>
<td></td>
</tr>
<tr>
<td><strong>Git</strong></td>
<td>✔ 1.7.1.1 or later</td>
</tr>
<tr>
<td><strong>Mercurial (Hg)</strong></td>
<td>✔ 1.5.1, 1.5.4, 1.6.4, 1.7.5, 1.8.4, 1.9.3 ✔ 2.0.2, 2.1.2, 2.2.3, 2.3.2, 2.4, 2.5.2 ❌ 2.6.x and higher</td>
</tr>
<tr>
<td>Mercurial 2.1 has a <strong>bug</strong> that makes it incompatible with Crucible. Please use Mercurial 2.1.1 or later. Mercurial 2.6.x is currently <strong>not compatible</strong>.</td>
<td></td>
</tr>
<tr>
<td>You should restart Crucible after upgrading Mercurial.</td>
<td></td>
</tr>
<tr>
<td><strong>Atlassian applications</strong></td>
<td></td>
</tr>
<tr>
<td>Crowd</td>
<td>✔ Crowd server 2.4.x ✔ Crowd client library: 2.4.1</td>
</tr>
<tr>
<td>From version 2.8.x, Crucible bundles the Crowd 2.4.1 client library, and supports the Crowd 2.4.x server.</td>
<td></td>
</tr>
<tr>
<td>JIRA</td>
<td>✔ JIRA FishEye Plugin 6.1.0+</td>
</tr>
<tr>
<td>The JIRA FishEye Plugin is bundled with JIRA. If you are using earlier versions of JIRA you can upgrade the plugin in JIRA to get support for Crucible.</td>
<td></td>
</tr>
</tbody>
</table>

### 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 above. Please see the sections following for the full announcements.

End of support matrix for upcoming versions of Crucible
Platform | Announcement Date | Crucible End of Support
--- | --- | ---
MySQL 5.0 | 27 November 2013 | As of Crucible 3.3
PostgreSQL 8.2 | 27 November 2013 | As of Crucible 3.3
SQL Server 2005 | 27 November 2013 | As of Crucible 3.3
Internet Explorer 8 | 27 November 2013 | As of Crucible 3.3
JIRA versions earlier than 5.0 | 27 August 2013 | As of Crucible 3.2

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 support for MySQL 5.0 (announced 27 November 2013)
- Deprecated Crucible support for PostgreSQL 8.2 (announced 27 November 2013)
- Deprecated Crucible support for SQL Server 2005 (announced 27 November 2013)
- Deprecated Crucible support for Internet Explorer 8 (announced 27 November 2013)
- 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)

**Deprecated Crucible support for MySQL 5.0 (announced 27 November 2013)**
Atlassian announces the deprecation of Crucible support for MySQL 5.0. We will no longer support MySQL 5.0 in Crucible 3.3. Crucible 3.3 is expected to be released in the first half of 2014.

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

**Deprecated Crucible support for PostgreSQL 8.2 (announced 27 November 2013)**
Atlassian announces the deprecation of Crucible support for PostgreSQL 8.2. We will no longer support PostgreSQL 8.2 in Crucible 3.3. Crucible 3.3 is expected to be released in the first half of 2014.

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

**Deprecated Crucible support for SQL Server 2005 (announced 27 November 2013)**
Atlassian announces the deprecation of Crucible support for SQL Server 2005. We will no longer support SQL Server 2005 in Crucible 3.3. Crucible 3.3 is expected to be released in the first half of 2014.

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

**Deprecated Crucible support for Internet Explorer 8 (announced 27 November 2013)**
Atlassian announces the deprecation of Crucible support for IE8. We will no longer support IE8 in Crucible 3.3.
Crucible 3.3 is expected to be released in the first half of 2014.

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

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.

<table>
<thead>
<tr>
<th>Database</th>
<th>Support End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>MySQL 5.0</td>
<td>January 2012</td>
</tr>
<tr>
<td>PostgreSQL 8.0 and 8.1</td>
<td>January 2012</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Web Browsers</th>
<th>Support End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internet Explorer 7</td>
<td>When Crucible 2.6 releases (target May 2011)</td>
</tr>
</tbody>
</table>

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

Deprecated Java platforms for Crucible (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

<table>
<thead>
<tr>
<th>Java Platform</th>
<th>Support End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Java Platform 5 (JDK/JRE 1.5)</td>
<td>When Crucible 2.6 releases, due May 2011</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>SCM Repository (all versions)</th>
<th>Support End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM ClearCase (all versions)</td>
<td>4 April 2012</td>
</tr>
</tbody>
</table>

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

End of Support Announcement for IBM ClearCase

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

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

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

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

**Installing Crucible on Windows**

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

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

1. **Check supported platforms**

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

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

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

2. **Check your version of Java**

   In a command prompt, run this:
   ```
   java -version
   ```

   The version of Java should be 1.6.0 or higher. If you intend to Running Crucible as a Windows service, using the Java Service Wrapper, you should use 32-bit Java (even on a 64-bit machine), and the JDK rather than the JRE (so as to take advantage of the -server parameter).
   
   <br>
   ▶ If you don’t see Java 1.6.0 or higher, then get Java...
   <br>
   Download and install the Java Platform JDK from Oracle’s website.
   <br>
   <br>
   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.
   
   <br>
   ▶ If you don’t see a path without spaces...
If you see a path with spaces, like C:\Program Files\Java\, then sorry, but go back to 2. and reinstall Java to a location that doesn't have spaces.

If you don't see a path at all, or if you just see %JAVA_HOME%, then set JAVA_HOME as follows:

For Windows 7:

1. Go to Start, search for “sys env” and choose Edit the system environment variables.
2. Click Environment Variables, and then New under ‘System variables’.
3. Enter "JAVA_HOME" as the Variable name, and the absolute path to where you installed Java as the Variable value, 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
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.
• Users are not able to stop, start, or otherwise tamper with Crucible unless they are an administrator.
• Provides advanced failover, error recovery, and analysis features to make sure that Crucible has the maximum possible uptime.

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

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

Related pages:
- Installing Crucible on Windows

Installing the Java Service Wrapper

To install the Java Service Wrapper on Windows:

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

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

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

```
# Java Application

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

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

To get confirmation in the wrapper log that the wrapper is using the correct Java JDK, add the following lines to the wrapper.conf file:
# Tell the Wrapper to log the full generated Java command line.
wrapper.java.command.loglevel=INF

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

4. Set the FISHEYE_INST environment variable (and other Crucible-specific environment variables) in the `<Crucible home directory>\wrapper\conf\wrapper.conf` file, following the instructions below.

5. Install Crucible as a service as follows:
   a. Open an Administrator command prompt by searching for 'Command prompt' in the Windows Start menu, right-clicking on Command Prompt and then choosing Run as administrator.
   b. Change directory to `<Crucible home directory>\wrapper\conf\wrapper.conf` file, and then choosing Run as administrator.
   c. Change directory to `<Crucible home directory>\wrapper\conf\wrapper.conf` file, and then choosing Run as administrator.
   d. Change directory to `<Crucible home directory>\wrapper\conf\wrapper.conf` file, and then choosing Run as administrator.
   e. Change directory to `<Crucible home directory>\wrapper\conf\wrapper.conf` file, and then choosing Run as administrator.

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.

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

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

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

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

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

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

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

Troubleshooting

Extracting files from wrapper.zip

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

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

Warning when using 64-bit Java JDK

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

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

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

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

Wrapper configuration and "-server" parameter

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

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

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

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

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

1. Check supported platforms

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

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

**Related pages:**
- Installing Crucible on Windows
- Starting to use Crucible
- Supported platforms

2. Check your version of Java

In a terminal, run this:

```
java -version
```

The version of Java should be **1.6.0** or 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:

<table>
<thead>
<tr>
<th>OS</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSX</td>
<td>/System/Library/Frameworks/JavaVM.framework/Versions/CurrentJDK/Home/</td>
</tr>
<tr>
<td>Linux</td>
<td>/usr/lib/jvm/default-java</td>
</tr>
</tbody>
</table>

*If you don’t see a path to the Java location, then set JAVA_HOME...*
Do either of the following:

- If `JAVA_HOME` is not set, log in with ‘root’ level permissions and run:

  ```bash
  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:

  ```bash
  JAVA_HOME="path/to/JAVA_HOME"
  ```

  It should look like:

  ```bash
  JAVA_HOME=/usr/lib/jvm/default-java
  ```

<table>
<thead>
<tr>
<th>Linux</th>
<th>Mac</th>
</tr>
</thead>
</table>

Insert the following in your `~/.profile` file:

```bash
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:

```bash
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:
<table>
<thead>
<tr>
<th>Linux</th>
<th>Mac</th>
</tr>
</thead>
</table>
| 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.
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**
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.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The setup wizard displays one of the following error messages:</td>
<td>The setup wizard failed to complete registration of the peer-to-peer application link with JIRA. JIRA integration is only partially configured.</td>
<td>Remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup. Detailed instructions are below.</td>
</tr>
<tr>
<td>• Failed to create application link from JIRA server at &lt;URL&gt; to this &lt;application&gt; server at &lt;URL&gt;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Failed to create application link from this &lt;application&gt; server at &lt;URL&gt; to JIRA server at &lt;URL&gt;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Failed to authenticate application link from JIRA server at &lt;URL&gt; to this &lt;application&gt; server at &lt;URL&gt;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Failed to authenticate application link from &lt;application&gt; server at &lt;URL&gt; to this JIRA server at &lt;URL&gt;.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.IllegalArgumentException: 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.
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
If solution 1 above does not work, you may need to remove the partial configuration and then add the full integration manually. Please follow these steps:

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

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

   For example:

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

   Or:

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

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

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

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

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

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

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.
      • Save the new application.

8. Set up the JIRA user directory in the application.
   • For Confluence:
      a. Go to the Confluence Administration Console.
      b. Click 'User Directories' in the left-hand panel.
      c. Add a directory and select type 'Atlassian JIRA'.
      d. Enter the following information:
         • Name – Enter the name of your JIRA server.
         • Server URL – Enter web address of your JIRA server. Examples:

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

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

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

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

### Starting to use Crucible

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

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

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

### Assumptions

We're assuming that:

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

### Add a repository

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

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

![Administration menu](image)

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

Choose the repository type and fill in the name and description.
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.
Your repository is now created in Crucible and the indexing should have started.

Create a project in Crucible

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

Click on Add a new project in the Projects listing of the Administration area.
Fill in the form with the default settings for the project and hit **Save**.

**Edit Project**

**Identification**
- **Name**: JQ Reviews
- **Key**: JQR

**Content**
- **Default Repository**: jqplot
  - Store the contents of files in reviews

**Permissions Scheme**
- **Permission Scheme**: default

**Moderator**
- **Enable the Moderator role for this project**: checked
- **Default Moderator**: Start typing a user name then press enter to select.

**Default Reviewers**
- **By default, allow anyone to join reviews after creation**: unchecked
- **Users**: Start typing a user name then press enter to select.

You’ll see your new project in the **Projects** listing.
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.
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.
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.
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
Using the Crucible screens

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

On this page:

- Dashboard
- Header
- Recent activity
- Related pages

Dashboard

The dashboard is the first screen you see when you log into FishEye/Crucible. The dashboard displays reviews and system activity related to you, and provides filtering for your recent repositories and projects. The dashboard can be accessed from anywhere in the application by clicking the FishEye/Crucible icon in the header.
Click **View review dashboard** to see more information about your reviews.

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

The table below explains the tabs in the Crucible header:

<table>
<thead>
<tr>
<th>Tab</th>
<th>Function</th>
<th>Appears</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Repositories</strong></td>
<td>Displays contents of connected source repositories. The dropdown menu has links to recently visited repositories.</td>
<td>Only when FishEye is used with Crucible. Only when FishEye is used with Crucible for logged-in users.</td>
</tr>
<tr>
<td><strong>Projects</strong></td>
<td>Displays reviews and content from specific projects. The dropdown menu has links to recently visited projects.</td>
<td>All screens All screens for logged-in users.</td>
</tr>
<tr>
<td><strong>People</strong></td>
<td>Displays metrics on the users of the Crucible instance. The dropdown menu has links to recently visited user pages.</td>
<td>All screens. All screens for logged-in users.</td>
</tr>
</tbody>
</table>
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*
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 (i) to hide/show the sidebar.

<table>
<thead>
<tr>
<th>State</th>
<th>Review</th>
<th>Owner</th>
<th>Name</th>
<th>Files</th>
<th>Comments</th>
<th>Age</th>
<th>Due</th>
<th>Reviewers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Review</td>
<td>TEST-313</td>
<td></td>
<td></td>
<td>1</td>
<td>3</td>
<td>6 months</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Draft</td>
<td>TEST-323</td>
<td>Donisl</td>
<td></td>
<td>3</td>
<td>0</td>
<td>5 months 14 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Draft</td>
<td>TEST-569</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>5 months</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Draft</td>
<td>TEST-999</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>2 months and 4 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Draft</td>
<td>CR-FE-7366</td>
<td></td>
<td>update wording</td>
<td>5</td>
<td>0</td>
<td>2 months and 26 days</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
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:

<table>
<thead>
<tr>
<th>All Open Reviews</th>
<th>Reviews that have not been summarised and closed yet.</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Closed Reviews</td>
<td>Reviews that have been summarised and closed.</td>
</tr>
<tr>
<td>All Reviews</td>
<td>All reviews, including open reviews, closed reviews and draft reviews.</td>
</tr>
<tr>
<td>All Open Snippets</td>
<td>All open snippets.</td>
</tr>
<tr>
<td>All Snippets</td>
<td>All snippets, i.e. open and closed snippets.</td>
</tr>
</tbody>
</table>

Screenshot: Browsing all open reviews
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:

<table>
<thead>
<tr>
<th>Tab</th>
<th>Description</th>
</tr>
</thead>
</table>
| **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

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>view-review-level-comments</td>
<td>View review-level comments</td>
</tr>
</tbody>
</table>
Searching Crucible

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

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

See also [Searching FishEye](#).

On this page:
- Using the Quick Search
- Filtering reviews
- Searching for Review Comments

Using the Quick Search

Before you begin:

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

To search Crucible using the Quick Search:

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

Screenshot: Quick Search displaying “quick nav” matches

Refining your Quick Search Criteria

You can refine your search criteria before executing the search:

<table>
<thead>
<tr>
<th>Search Tool</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Handles</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• detail — Search against title, objective, key, linked reviews and linked issues.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• reviewcomment — Search against review comments.</td>
<td></td>
</tr>
</tbody>
</table>

Searching for Discrete Strings

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

Enter "CR-2818" and Crucible will only return results that match that exact string, i.e. it will not return a result with CR-FE-2818 or CR-28189.

Filtering Quick Search Results

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

| Filter   | Description |
|----------|-------------|-------------|
All repositories | Type a repository name into the field, or click the down arrow to see a list of repositories.
--- | ---
Source type | Click *Files and directories*, *Commit messages*, *Diffs*, *Content* or *Committers* to restrict the search results to just that source type.
All projects | Select or enter the name of the project that you want to restrict your results to. For example, if you enter 'CR' then the search results page will refresh to display only reviews in the 'CR' project. **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.
Last modified | Filter by the date of the last change.
By | Filter by author name.

Filtering reviews

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

**To filter a list of reviews:**

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

<table>
<thead>
<tr>
<th>Filter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Find reviews by searching for words within the title.</td>
</tr>
<tr>
<td>Project</td>
<td>Find reviews under a particular project.</td>
</tr>
<tr>
<td>Author</td>
<td>Find reviews moderated by a particular authors.</td>
</tr>
<tr>
<td>Moderator</td>
<td>Find reviews moderated by a particular moderators.</td>
</tr>
<tr>
<td>Creator</td>
<td>Find reviews created by a particular creator.</td>
</tr>
<tr>
<td>Reviewer</td>
<td>Find reviews that are reviewed by a particular reviewer. This will default to the user logged in.</td>
</tr>
<tr>
<td>Reviewer Status</td>
<td>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.</td>
</tr>
<tr>
<td>Type</td>
<td>Choose either Review or Snippet.</td>
</tr>
</tbody>
</table>
Match Roles

To use all the above filters, choose **all**. To use any of the filters, choose **any**.

Review state checkboxes

Check any of the review state checkboxes (e.g. Draft, Pending Approval) to filter for reviews in those states.

Searching for Review Comments

**To search for review comments:**

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

<table>
<thead>
<tr>
<th>Project</th>
<th>Find comments on reviews under a particular project.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comment content</td>
<td>Find comments that contain the specified text.</td>
</tr>
<tr>
<td>Review Permalink</td>
<td>Find comments made on the specified review.</td>
</tr>
<tr>
<td>After</td>
<td>Find comments made after a particular date.</td>
</tr>
<tr>
<td>Before</td>
<td>Find comments made before a particular date.</td>
</tr>
<tr>
<td>Comment Author</td>
<td>Find comments made by a particular user.</td>
</tr>
<tr>
<td>Search Type</td>
<td>Filter for comments marked as <strong>Defects</strong>. Check <strong>Comments</strong> to find comments that are not flagged as Defects.</td>
</tr>
<tr>
<td>Review State</td>
<td>Find comments on reviews that are in a particular state. See <strong>Review State Filter</strong> (above).</td>
</tr>
<tr>
<td>Ranking</td>
<td>Find <strong>defects</strong> have been given a particular ranking (e.g. 'Major', 'Minor').</td>
</tr>
<tr>
<td>Ranking</td>
<td>Find <strong>defects</strong> have been given a particular ranking (e.g. 'Major', 'Minor').</td>
</tr>
</tbody>
</table>

Screenshot: Search Comment Filter Options
Displaying Defect Metric Charts for Comment Search Results

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

Screenshot: Comment Search Results
Viewing people's statistics in Crucible

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

On this page:

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

Opening the list of People

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

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

**Screenshot: List of all People in Crucible (when using FishEye with Crucible)**
Viewing a Person's Activity Screen

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

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

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

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

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

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

Viewing charts of a person’s activity

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

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

Screenshot: People Activity Charts in Crucible

- **About**
  The username section shows the email address, then the first and latest commit dates for the person in context. Also displayed are data points for the previous week and all-time. It shows number of commits, number of files changed and number of lines changed.
Reviews
The Reviews section shows several filters that you can click to constrain the review items shown in the right-hand pane. The options are To Review, Ready to Close, Out For Review, Open and Closed.

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

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

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

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

The page for the project has the following sections:

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

**Activity tab**

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

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

**Reviews tab**

Lists all the reviews for the project.

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

**Screenshot: The Crucible Project View**

---

**Viewing Project Statistics**

This page explains the layout of the Project Summary page.

**On this page:**

- Project Name Panel
- Project Line History Panel
- Project Stats Panel
- Project Commit Activity Chart

When you click through to a Crucible Project from the **Projects Tab**, the 'Project Summary' screen opens.

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

**Project Name Panel**

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

**Project Line History Panel**

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

**Screenshot: The Project Line History Panel**

![Line History Chart]

**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

<table>
<thead>
<tr>
<th>Stats</th>
<th>Last Week</th>
<th>All Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commits</td>
<td>137</td>
<td>16,033</td>
</tr>
<tr>
<td>Files changed</td>
<td>543</td>
<td>69,896</td>
</tr>
<tr>
<td>Lines changed</td>
<td>33,543</td>
<td>504,583</td>
</tr>
</tbody>
</table>

Project Commit Activity Chart

This panel contains a number of charts:

<table>
<thead>
<tr>
<th>Chart</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Commit Activity</strong></td>
<td><strong>52 week commits volume</strong> This chart shows the amount of commits, shown by week over a one year period.</td>
</tr>
<tr>
<td></td>
<td><strong>Commits by day</strong> This chart shows the amount of commits, graphed by day over the past week.</td>
</tr>
<tr>
<td></td>
<td><strong>Commits by hour</strong> This chart shows the amount of commits, graphed by hours over the past day.</td>
</tr>
<tr>
<td></td>
<td><strong>Commit calendar</strong> 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.</td>
</tr>
</tbody>
</table>

Changing your User Profile

See Changing your User Profile in the FishEye documentation.

Viewing Your Favourites

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

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

On this page:
- Viewing your Existing Favourites
- Renaming a Favourite
- Removing a Favourite

Viewing your Existing Favourites

To view your favourites,

1. Click the favourites icon (⭐) in the header.
   The code reviews, changesets, files, people and repositories that you have selected will be displayed in a list on the dashboard (see screenshot).

2. Click the favourites icon (⭐) next to a favourite to show the dialogue for renaming (i.e. changing the 'Label') the favourite or removing the favourite. See Using favourites for more information.

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

Screenshot: Viewing favourites

<table>
<thead>
<tr>
<th>You have 13 favourites.</th>
</tr>
</thead>
<tbody>
<tr>
<td>⭐ FE (SVN repository)</td>
</tr>
<tr>
<td>⭐ Clover Eclipse Plugin</td>
</tr>
<tr>
<td>⭐ Confluence Hosted</td>
</tr>
<tr>
<td>⭐ Clover IDEA plugin</td>
</tr>
<tr>
<td>⭐ JIRA FishEye Plugin</td>
</tr>
<tr>
<td>⭐ Jira Studio</td>
</tr>
<tr>
<td>⭐ LinkChecker</td>
</tr>
<tr>
<td>⭐ A Good Marketing ploy</td>
</tr>
<tr>
<td>⭐ Build Monitor</td>
</tr>
<tr>
<td>⭐ Default Project</td>
</tr>
<tr>
<td>⭐ Clover</td>
</tr>
<tr>
<td>⭐ Testing Project</td>
</tr>
<tr>
<td>⭐ FishEye</td>
</tr>
</tbody>
</table>

Renaming a Favourite

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

Screenshot: The 'Update favourite' dialogue

Removing a Favourite

To view your favourites,

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

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

Screenshot: The 'Update favourite' dialogue

Using favourites

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

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

On this page:
- Adding a review to your favourites
- Adding a review comment thread to your favourites
• Adding a project to your favourites
• Adding a person to your favourites
• Adding a changeset to your favourites
• Adding a file or folder to your favourites
• Adding a repository to your favourites

Adding a review to your favourites

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

Screenshot: Adding a Review To Your Favourites

Adding a review comment thread to your favourites

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

Screenshot: Adding a Review Comment Thread To Your Favourites
Adding a project to your favourites

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

Screenshot: Adding a Project to your Favourites

Adding a person to your favourites

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

Screenshot: Adding a Person to Your Favourites
Adding a changeset to your favourites

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

Screenshot: Adding a Changeset to Your Favourites

Adding a file or folder to your favourites

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

Screenshot: Adding a File or Folder to Your Favourites

Adding a repository to your favourites

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

Screenshot: Adding a Repository to Your Favourites

Using Keyboard Shortcuts in Crucible

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

General shortcuts

<table>
<thead>
<tr>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
</table>

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
<table>
<thead>
<tr>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>?</td>
<td>Opens reference list of keyboard shortcuts</td>
</tr>
<tr>
<td>escape</td>
<td>Closes reference list of keyboard shortcuts</td>
</tr>
<tr>
<td>alt</td>
<td>Hold down then click and drag to select source line contents</td>
</tr>
<tr>
<td>shift + f</td>
<td>Toggle full screen review mode</td>
</tr>
</tbody>
</table>

**Custom navigation**

<table>
<thead>
<tr>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>,</td>
<td>(Comma) Go to the previous element (file, comment, defect or diff hunk depending on your current context)</td>
</tr>
<tr>
<td>.</td>
<td>(Period) Go to the next element (file, comment, defect or diff hunk depending on your current context)</td>
</tr>
</tbody>
</table>

**Comment navigation**

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

**File navigation**

<table>
<thead>
<tr>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>j</td>
<td>Go to the next element (file, comment, defect or diff hunk depending on your current context)</td>
</tr>
<tr>
<td>k</td>
<td>Go to the previous element (file, comment, defect or diff hunk depending on your current context)</td>
</tr>
<tr>
<td>shift + k</td>
<td>Go to first file</td>
</tr>
<tr>
<td>shift + j</td>
<td>Go to last file</td>
</tr>
<tr>
<td>u</td>
<td>Go to next unreviewed file</td>
</tr>
<tr>
<td>i</td>
<td>Go to previous unreviewed file</td>
</tr>
<tr>
<td>y</td>
<td>Set file reviewed and go to next unreviewed file</td>
</tr>
<tr>
<td>shift + y</td>
<td>Toggle file reviewed/unreviewed status</td>
</tr>
<tr>
<td>e</td>
<td>Expand current file</td>
</tr>
<tr>
<td>c</td>
<td>Collapse current file</td>
</tr>
</tbody>
</table>
The Crucible workflow

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

On this page:

**Crucible Workflow**

**Example workflow:** Two participant code review

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

**Roles**

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

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

**Crucible Workflow**

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

*Diagram: Workflow for One-to-One Reviews*

Need more information? Read more about the different forms of workflow in Crucible.

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

**Example workflow:** Two participant code review

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

1. **The author starts the review**

To begin, the code author sets up the review. There are a number of ways to do this, but for this example, the author starts from the FishEye source view of the file he wants to review:
From the FishEye Source view, the author chooses **Reviews > Create Review**. If there are multiple projects, the Select Project dialogue opens.

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

The author can also add more content to the review, if they wish, by clicking Add Content. See Adding content to the review.

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

Screenshot: A new Crucible review

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

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

2. The reviewer comments on the code

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

Screenshot: A Crucible review notification email
When the reviewer clicks the link in the notification email, the Crucible Review screen opens.

**Screenshot: The Crucible Review screen**

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

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

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

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

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

By default, an email is sent to participants every time a comment is posted. This is an individual setting. Each reviewer can configure their own profiles to adjust the list of events that will trigger email notifications.
3. The author responds to the comments

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

Screenshot: Comment threads in Crucible

4. The author closes the review

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

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

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

Screenshot: Viewing a closed review

If the author ever needs to resume work on the closed review, they can simply click Reopen when viewing this screen. This returns the status of the review to "Open", without changing the status of existing reviewers. Click Edit Details to add reviewers or to change other details of the review.

Defining your workflow

This document describes several forms of Crucible Workflow in detail. Depending on the size of your team, there are four different ways that a development team could use Crucible for code reviews. Choose the workflow...
which suits your team.

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

**Lightweight Code Commenting with Crucible (individual)**

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

*Diagram: Workflow for Lightweight Code Commenting*

**One-to-One Reviews (Agile Pair)**

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

*Diagram: Workflow for One-to-One Reviews*

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

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

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

Diagram: Workflow for One-to-Many Reviews

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

Diagram: Workflow for Formal Group Reviews

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

Roles and Status Classifications

This page explains the roles and status classifications in Crucible.

- **Roles in Crucible**
  - Author
  - Creator/Moderator
  - Reviewer
  - User

- **Status Classifications in Crucible**
  - Draft
  - Under Review
  - Summarized
  - Closed
  - Abandoned

Roles in Crucible
Author

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

Creator/Moderator

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

Reviewer

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

User

A user is a person using Crucible.

Status Classifications in Crucible

Draft

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

Under Review

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

Summarized

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

Closed

Closed reviews are complete.

Abandoned

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

See also the Glossary of terms used in Crucible.

Creating a review

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

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

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

You can also create Crucible reviews in these other ways:

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

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

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.

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.

**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**.
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*
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:

```
```

The parameters are as follows:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Required?</th>
</tr>
</thead>
<tbody>
<tr>
<td>csid</td>
<td>The changeset ID. You can specify one or more, of the form //repo/csid (where “%2F” is the URL-encoded form of is ‘/’ )</td>
<td>Yes</td>
</tr>
<tr>
<td>repo</td>
<td>The name of your repository.</td>
<td>Yes (unless supplied in the csid)</td>
</tr>
<tr>
<td>title</td>
<td>The title of your new Crucible review.</td>
<td>No</td>
</tr>
<tr>
<td>description</td>
<td>The description of your new Crucible review.</td>
<td>No</td>
</tr>
</tbody>
</table>

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

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

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

The next step is to add reviewers.

Creating a Snippet Review

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

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

You can see your own snippets, or everyone’s snippets, by choosing Reviews > Review dashboard. See Searching Crucible for information about filtering snippet reviews.

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

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.
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**:

![Add Content to Review CR-FE-7780](image)

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

![Profile settings](image)

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

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

**Python**

Python 2.7 is required.

**Linux**

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

**Windows**
You can install Python by running the latest Python 2.7 Installer for Windows.

**MacOS X**

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

Using the Review CLI tool

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

Call the script with the following command:

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

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

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

**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
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:

<table>
<thead>
<tr>
<th>Post-commit reviews</th>
</tr>
</thead>
<tbody>
<tr>
<td>Browse Changesets</td>
</tr>
<tr>
<td>Explore Repositories</td>
</tr>
<tr>
<td>Search for Files</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pre-commit reviews</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-commit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>All reviews</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachments</td>
</tr>
</tbody>
</table>

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

Selecting changesets for review

Click Browse Changesets in the ‘Add Content to Review’ dialog to add SCM changesets to your review.
By default, Crucible presents a list of the author’s changesets in reverse chronological order. You can see other changesets by changing the options at the top of the dialog:

<table>
<thead>
<tr>
<th>Repository</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author</td>
<td>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.</td>
</tr>
<tr>
<td>Branch</td>
<td>This will only show files and recent changes on that branch from the repository set above.</td>
</tr>
<tr>
<td>Commit message</td>
<td>Filter for specific commit messages.</td>
</tr>
<tr>
<td>Add to Review as</td>
<td>Choose the form of the review. See Choosing the way files are added to the review below.</td>
</tr>
<tr>
<td>Scroll to changeset</td>
<td>Allows you to jump to a particular change set by entering its title and pressing Enter.</td>
</tr>
</tbody>
</table>

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.
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**
- **Paste text from clipboard**

**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.

**Patch text** — paste your copied text in this text area.
For more information see Creating patch files for pre-commit reviews.

**Add Content to Review TEST-400**

Upload patch manually for pre-commit review

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

**Charset**

UTF-8

**File**

Choose File

No file chosen

Upload

Patch anchoring

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

See Using Crucible patch anchoring for more information.

Adding attachments to a review

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

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

<table>
<thead>
<tr>
<th><strong>Charset</strong></th>
<th>Click to choose the character set being used. UTF-8 is the default.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Choose File</strong></td>
<td>Browse for a file that you want to add to the review.</td>
</tr>
<tr>
<td><strong>Upload</strong></td>
<td>Browse for a file that you want to use as the base of a diff with a previously attached file.</td>
</tr>
</tbody>
</table>

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

**Add Content to Review TEST-323**

Charset: UTF-8

File (max 10MB): Choose file

Upload another file as the base of a diff

Choose the way files are added to the review

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

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td><strong>Diffs</strong></td>
</tr>
<tr>
<td>Adds the entire file with all content, rather than just a diff with context.</td>
<td><strong>Whole Files</strong></td>
</tr>
<tr>
<td>This adds files with a diff to the revision each file was last branched.</td>
<td><strong>Diffs to Last Branch Point</strong></td>
</tr>
<tr>
<td>This adds files with a diff to the last reviewed changeset.</td>
<td><strong>Diffs to Last Reviewed Version</strong></td>
</tr>
<tr>
<td>This allows you to specify the file to show the differences between two specific versions of a file.</td>
<td><strong>Diffs to... (a particular revision)</strong></td>
</tr>
</tbody>
</table>

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.

### Iterative pre-commit reviews

Iterative pre-commit reviews provide a way to review patches, which are uploaded before the code is committed. This allows reviewers to discuss changes before they are merged into the codebase.

Iterative patch uploads work the same way as iterative post-commit reviews, but are used for pre-commit reviews. They allow you to add patches to your review, and then update the review with new patches as they become available.

### Viewing diffs

Iterative post-commit reviews allow you to view changes between two specific versions of a file. This can be useful when you want to review specific changes, or when you need to compare different revisions of the same file.

See **Viewing diffs** below for information about the slider and diffs.

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

See Creating patch files for pre-commit reviews.

**Initial patch upload**

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

You upload the initial patch for a review in the usual way — see Adding content to the review.

**Iterative patch uploads**

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

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

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

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

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

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

Creating patch files for pre-commit reviews

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

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

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

You can create the patch file from your local repository:

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

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

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

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

Creating a patch file from IntelliJ IDEA 7.0

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

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

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

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

   2. In the Local History view, right-click the revision number, and choose Create Patch.
3. In the Create Patch dialog, choose a location for the patch file and a file name, then click OK.

Creating a patch file in Eclipse 3.3.1.1

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

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

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

<table>
<thead>
<tr>
<th>SCM</th>
<th>Command</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVS</td>
<td><code>cvs diff -Nu &gt; patch.txt</code></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td><code>cvs diff -N -U 10000 &gt; patch.txt</code></td>
<td>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.</td>
</tr>
</tbody>
</table>
| 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                      | `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).  

---  

*Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.*
<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>diff -u /dev/null path_to_added_file &gt;&gt; patch.txt</code></td>
<td>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 <code>p4 opened</code> to find such files. Replace <code>path_to_added_file</code> with the actual path of your added file. You can follow a similar procedure with deleted files using <code>p4 print</code> to extract the previous version of the file. 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.</td>
</tr>
</tbody>
</table>
| `hg diff > patch.txt` | Mercurial
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 diff > patch.txt` | Git
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.

*Crucible makes a 'best guess' in its processing – you should check that it has anchored the patch to the correct location in your repository.*
- You can click **Edit** to change the anchoring, by choosing a new match or removing the anchor. You can change the anchoring later, after the review is live.
- Start the review. When viewing the diffs, you will be able to choose more than three lines of context from the **View** menu.

**Screenshot: Crucible Patch Anchoring**

**Add Content to Review TEST-56**

- Upload Method: Select file from file system (max file size: 10MB)
- File: [Browse]

**Existing Patch Files:**
- CRUC-2777__UI_to_anchorings_patches.patch (anchored to FE: trunk)
- src/java/com/canqua/crucible/actions/create/AddAttachment.java
- src/contentWEB-INF/jsp/crucible/create/anchorPatchResp.jsp
- src/java/com/canqua/crucible/actions/create/AnchorPatchAction.java
- src/contentWEB-INF/jsp/crucible/create/create_selectPatch.jspf
- src/java/com/canqua/crucible/view/PatchDO.java
- src/java/com/canqua/crucible/revision/source/PatchSource.java
- src/contentWEB-INF/classes/xwork-crucible.xml

**Screenshot: Editing the settings for Patch Anchoring**

**Details**

- **Participant:** Edwin Dawson
- **Role:** Author & Moderator
- **Time Spent:** 2m
- **File:** 7

**Patches:**
- CRUC-2777__UI_to_anchorings_patches.patch (anchored to FE: trunk)

**Objectives**

Please ensure you add an acceptance test to your review comments.

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
Choosing reviewers

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

On this page:

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

Entering basic information

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

You must also select reviewers, described next.

**Adding and removing reviewers**

Before a review can be started, you need to choose reviewers. When adding reviewers, you can add Crucible users immediately.

You can also invite external users who do not have an account in Crucible by typing their email address into the Reviewers field.

**Adding users to a review**

Choose reviewers from the available Crucible users by typing names into the Reviewers field. The users who are available to be reviewers is determined by the project’s settings for Default Reviewers – see Creating a project.

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

You can also allow any Crucible user to add themselves as a reviewer by selecting 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:

- FishEye’s SMTP server must be configured and capable of sending email.
- The Public Signup setting must be set to ON. Go to the Admin area and click on Authentication,
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
Next steps

You can now begin **Performing the review**.

If you have a moderator controlling your review process, you can move onto **Starting a review**.

**Performing the review**

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

**On this page:**

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

**Deciding what needs to be reviewed**

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

**Browse your reviews on the Dashboard**

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

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

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

Read more about using the Dashboard.

**Browse all reviews on the 'Reviews' tab**

All reviews that involve you in any role are listed when you click **Inbox** or **Outbox** under the Reviews menu. For
example, choose **Reviews > Inbox** to see reviews that don’t require further action from you, but are still active. If email notifications are enabled (see **SMTP settings** in the FishEye documentation), reviewers will receive an email with information about the review. Click the link within the email to go directly to the review.

*When files change during a review*

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

![Screenshot: 'File Outdated' menu](image)

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

*Next steps*

- Starting a review
- Adding comments
- Changeset discussions
- Flagging defects
- Creating JIRA issues from the review
- Viewing reports
- Completing your review
- 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
that they can start reviewing. The review has been in 'Draft' state until this point. Only the moderator has the permission to start a review.

To start the review:

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

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

**Screenshot: Starting a Review**

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

**Editing a review once started**

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

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

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

**Screenshot: Launching Edit Mode**

**Screenshot: Crucible Edit Mode for Review Content**
Adding comments

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

On this page:

- Locating existing comments
- Adding comments
- Draft comments

Locating existing comments

The number beside a filename, in the left-hand panel of a review, indicates the number of comments on that file. (The number of unread comments, if any, is shown in brackets.)
Adding comments

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

<table>
<thead>
<tr>
<th>To comment on...</th>
<th>Do this...</th>
<th>General Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>The whole review</td>
<td>Click <strong>General Comments</strong> (in the left-hand panel), then <strong>Add a general comment</strong> (under 'General Comments').</td>
<td></td>
</tr>
<tr>
<td>A source file under review</td>
<td>Click on the file in the left-hand panel, then click <strong>Add a file comment</strong> (just above the source code listing).</td>
<td></td>
</tr>
</tbody>
</table>
### 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.

ℹ️ 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.

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**

![Defect screenshot](image)

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.
Creating JIRA issues from the review

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

Inline issue creation allows:

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

You might find this useful when:

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

Creating a JIRA issue

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

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

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

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

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
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
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.

ℹ️ This feature requires FishEye integrated with Crucible.

On this page:
- Opening the Review Coverage report
- Using the Summary Panel
- Using the Review Coverage Overview
- Using the Individual Committer Stats panel
- Using the Changesets panel

Screenshot: The Review Coverage report
Opening the Review Coverage report

To open the Review Coverage report:

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

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

Using the Summary Panel

The summary panel displays the following metrics for your selected repository:

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

Screenshot: Summary Panel in the Review Coverage report
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
### 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

<table>
<thead>
<tr>
<th>Colour</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>dark green</td>
<td>reviewed</td>
</tr>
<tr>
<td>light green</td>
<td>in review</td>
</tr>
<tr>
<td>red</td>
<td>not reviewed</td>
</tr>
</tbody>
</table>

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:

![Complete button]

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 summaerising.

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

Screenshot: Draft comments
Warning

You have draft comments
Draft comments that aren't posted will be deleted.

View drafts
Delete drafts
Post drafts

Screenshot: Review complete
Using the Review History Dialog

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

To open the Review History dialog:

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

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

Click Export as CSV near the top right to export the entire review history, allowing for easy data import into a spreadsheet or other application.

Screenshot: The Crucible Review History dialog
Using RSS feeds in Crucible

**Subscribing to an RSS feed**

In Crucible, all pages with an activity stream, and any page that has a list of reviews, will have an RSS option. Right-click the RSS icon and choose **Copy Link Address** to get the URL that you can paste into your RSS reader of choice. Click the RSS icon to see a page with the RSS feed displayed.

**Using 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.

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
</table>

**Headings**
<table>
<thead>
<tr>
<th>h1.Biggest heading</th>
<th>Turns text into a heading at size 1.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Biggest Text</strong></td>
<td></td>
</tr>
<tr>
<td>h2.Bigger heading</td>
<td>Turns text into a heading at size 2.</td>
</tr>
<tr>
<td><strong>Bigger heading</strong></td>
<td></td>
</tr>
<tr>
<td>h3.Big heading</td>
<td>Turns text into a heading at size 3.</td>
</tr>
<tr>
<td><strong>Big heading</strong></td>
<td></td>
</tr>
<tr>
<td>h4.Normal heading</td>
<td>Turns text into a heading at size 4.</td>
</tr>
<tr>
<td><strong>Normal heading</strong></td>
<td></td>
</tr>
<tr>
<td>h5.Small heading</td>
<td>Turns text into a heading at size 5.</td>
</tr>
<tr>
<td><strong>Small heading</strong></td>
<td></td>
</tr>
<tr>
<td>h6.Smallest heading</td>
<td>Turns text into a heading at size 6.</td>
</tr>
<tr>
<td><strong>Smallest heading</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Text Effects**

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

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>bold</em></td>
<td>Makes text appear <strong>bold</strong>.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Makes text appear in <em>italics</em>.</td>
</tr>
<tr>
<td>+underline+</td>
<td>Makes text appear <strong>underlined</strong>.</td>
</tr>
<tr>
<td>??citation??</td>
<td>Makes text appear in —citation form.</td>
</tr>
<tr>
<td>-strikethrough-</td>
<td>Makes text appear <strong>struck through</strong>.</td>
</tr>
<tr>
<td>^superscript^</td>
<td>Makes text appear in ^superscript^.</td>
</tr>
<tr>
<td><del>subscript</del></td>
<td>Makes text appear in <del>subscript</del>.</td>
</tr>
<tr>
<td>{{monospaced}}</td>
<td>Placing double curly-brackets around text makes it appear <strong>monospaced</strong>.</td>
</tr>
</tbody>
</table>

**bq. Block Quote**

To make an entire paragraph into a block quotation, place “bq. ” before it.

Example:

| Some block quoted text | |
|------------------------| |
Text Breaks

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

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(empty line)</td>
<td>Produces a new paragraph</td>
</tr>
<tr>
<td>```</td>
<td>Creates a line break.</td>
</tr>
<tr>
<td>```</td>
<td>Creates a horizontal ruler.</td>
</tr>
<tr>
<td>```</td>
<td>Produces em dash — symbol.</td>
</tr>
<tr>
<td>```</td>
<td>Produces en dash – symbol.</td>
</tr>
</tbody>
</table>

Links

Creating links is easy with Wiki Markup.

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Crucible Review CR-FE-100</td>
<td>CR-FE-100]</td>
</tr>
<tr>
<td>[Atlassian Crucible</td>
<td><a href="http://atlassian.com">http://atlassian.com</a>]</td>
</tr>
</tbody>
</table>

Examples:

- [Atlassian Crucible](http://atlassian.com)
- [Atlassian Crucible](http://atlassian.com)

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).
Lists

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

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
</table>
| * 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.

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![<a href="http://www.host.com/image.gif">http://www.host.com/image.gif</a>!</td>
<td>The image will be displayed from the remote source.</td>
</tr>
<tr>
<td>![<a href="http://www.host.com/image.gif">http://www.host.com/image.gif</a></td>
<td>align=right, vspace=4!</td>
</tr>
</tbody>
</table>

Tables

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

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>col A1</td>
</tr>
<tr>
<td></td>
<td>col B1</td>
</tr>
</tbody>
</table>

The code above produces a table that looks like this:

<table>
<thead>
<tr>
<th>heading 1</th>
<th>heading 2</th>
<th>heading 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>col A1</td>
<td>col A2</td>
<td>col A3</td>
</tr>
<tr>
<td>col B1</td>
<td>col B2</td>
<td>col B3</td>
</tr>
</tbody>
</table>
Advanced Formatting

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

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>{noformat}</td>
<td>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:</td>
</tr>
<tr>
<td></td>
<td>This is a no-formatted piece of text, so <em>no</em> <em>formatting</em> is done here.</td>
</tr>
<tr>
<td>{panel}</td>
<td>Embraces a block of text within a fully customizable panel. The optional parameters you can define are as follows.</td>
</tr>
<tr>
<td></td>
<td>- title: Title of the panel</td>
</tr>
<tr>
<td></td>
<td>- borderStyle: The style of the border this panel uses (solid, dashed and other valid CSS border styles)</td>
</tr>
<tr>
<td></td>
<td>- borderColor: The color of the border this panel uses</td>
</tr>
<tr>
<td></td>
<td>- borderWidth: The width of the border this panel uses</td>
</tr>
<tr>
<td></td>
<td>- bgColor: The background color of this panel</td>
</tr>
<tr>
<td></td>
<td>- titleBGColor: The background color of the title section of this panel</td>
</tr>
<tr>
<td></td>
<td>Examples:</td>
</tr>
<tr>
<td></td>
<td>Some text in a basic panel</td>
</tr>
<tr>
<td></td>
<td>My Title</td>
</tr>
<tr>
<td></td>
<td>Some text with a title</td>
</tr>
</tbody>
</table>
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:

```
// 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:

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>\X</td>
<td>Escape special character X (i.e. {})</td>
</tr>
<tr>
<td>:, :{</td>
<td>Graphical emoticons (smileys): 😊, 😓.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>:)</td>
<td>😊</td>
</tr>
<tr>
<td>:(</td>
<td>😓</td>
</tr>
<tr>
<td>:P</td>
<td>😸</td>
</tr>
<tr>
<td>:D</td>
<td>😞</td>
</tr>
<tr>
<td>;)</td>
<td>😊</td>
</tr>
<tr>
<td>(y)</td>
<td>😊</td>
</tr>
<tr>
<td>(n)</td>
<td>😐</td>
</tr>
<tr>
<td>(i)</td>
<td>😊</td>
</tr>
<tr>
<td>(/)</td>
<td>😐</td>
</tr>
<tr>
<td>(x)</td>
<td>😊</td>
</tr>
<tr>
<td>(!)</td>
<td>😊</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(+)</td>
<td>😊</td>
</tr>
<tr>
<td>(-)</td>
<td>😓</td>
</tr>
<tr>
<td>(?)</td>
<td>😐</td>
</tr>
<tr>
<td>(on)</td>
<td>😊</td>
</tr>
<tr>
<td>(off)</td>
<td>😐</td>
</tr>
<tr>
<td>(*)</td>
<td>😊</td>
</tr>
<tr>
<td>(*r)</td>
<td>😊</td>
</tr>
<tr>
<td>(*g)</td>
<td>😊</td>
</tr>
<tr>
<td>(*b)</td>
<td>😊</td>
</tr>
<tr>
<td>(*y)</td>
<td>😊</td>
</tr>
</tbody>
</table>

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

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

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

Viewing the progress tracking totals

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

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

Screenshot: Marking a File as Unread

Adjusting settings for progress tracking

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

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

Using Time Tracking

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

On this page:

- How time tracking works in Crucible
- How to adjust the time tracked on a review
- Viewing the time tracking totals
- JIRA integration
- Further reading

How time tracking works in Crucible

Crucible will automatically track the time you spend in a Crucible review. When you open a file for review, a counter in the Review Details panel starts. The time is added to your total when you leave the review screen.

Screenshot: Crucible Time Tracking

How to adjust the time tracked on a review

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

Viewing the time tracking totals

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

Screenshot: Crucible Tracking Totals
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
- 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

Note that your Crucible and JIRA instances must be configured to make use of these JIRA integration features. The Crucible project requires a linked JIRA project before issues can be linked to reviews. See Linking Crucible to JIRA.

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

See Creating JIRA issues from the review for more details.

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 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 Close.

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

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

To summarize a review,

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

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

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

```
Summarize the review outcomes (optional)

Testing successful. Thanks for your time, everyone.
```

Screenshot: Review Closed
Review Closed

**Review Summary**
Testing successful. Thanks for your time, everyone.

The summary is sent to all participants and is displayed at the top of the closed review.

- Reviews in the 'Review' or 'Summarize' state can be closed.
- Reviews in the 'Summarize' or 'Closed' state can be re-opened. Re-opening changes the review's state back to 'Under Review', allowing all participants to add comments.
- See this page for a list of the states that a review can be in.

Re-opening a review is not the recommended way to 're-review'. You should create a new review with the reworked changes and link it to its parent review (create a hyperlink back to the original review in the new Review's Objectives field).

Managing your reviews

See:
- Using Review Reminders
- Sending a review's comments via email
- 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), you can have Crucible send a preset reminder to all of the pending
reviewers, some number of working days before the deadline.

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

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

Manual Reminders

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

Before the review is due, click Share and add recipients and a message:

If the review is overdue, click Send Reminder. The message is pre-populated with recipients who have not yet completed their review.

Sending a review's comments via email

You can download all of the comments from a review as plain text, so that you can send that to anyone you want via email. You may wish to do this to allow a person outside the review to quickly scan the content of the
To send all of a review's comments via email:

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

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.

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.

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

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

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.

Transitoning a linked JIRA issue when closing the review

When closing a Crucible review you may also want to close a JIRA issue that is linked to that review.

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

Choose a step from the dropdown, and click Close.

Notes

- 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 3.2

27 November 2013

- Quick Search filters
- User data moved to the SQL database
- Improved protection against XSRF
- Internally managed Git repositories no longer supported by FishEye 3.2
- Microsoft SQL Server 2012 is now supported (support for SQL Server 2005 is deprecated).
- Microsoft Internet Explorer 10 is now supported (support for IE 8 is deprecated).
- MySQL 5.0 is deprecated.
- PostgreSQL 8.2 is deprecated.
- FishEye communication with JIRA versions older than 5.0 is no longer supported.
- More in the release notes and changelog

See the Crucible upgrade guide.

**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

**Crucible 2.9**

14 November 2012

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

**Crucible 2.8**

15 August 2012

- Mentions
- Shares
- Improved performance for the projects listing
- Support for Subversion 1.7
- End of life announcements
- More in the release notes
- Crucible 2.8 Upgrade Guide
Crucible 2.7

7 September 2011

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

Crucible 2.6

6 June 2011

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

Crucible 2.5

8 February 2011

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

Crucible older release notes (click to expand)

Crucible 2.4

20 October 2010

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

Crucible 2.3

26 May 2010

- Snippet Reviews
- Changeset Discussions
- Mercurial SCM Alpha
- Review Coverage report
- Revamped Installation Process
- Gadgets
- More in the release notes
- Crucible 2.3 Upgrade Guide
Crucible 2.2

18 February 2010

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

Crucible 2.1

12 November 2009

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

Crucible 2.0

30 June 2009

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

Crucible 1.6

23 September 2008

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

Crucible 1.5

14 April 2008

- Project Dashboard
- Filtered comments & defects search, with statistical summary
- Customisable email templates
- Improvements to Crucible Plugin API beta
- More in the release notes
- Crucible 1.5 Upgrade Guide
User documentation for Crucible 3.2

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)

- 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.

- 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 3.2
- 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** checkboxes (e.g. plugins, templates, uploads, SQL database, etc).

If you are backing up your Crucible instance using the command-line interface, do not use any **exclusion options**.

- Read the [Release Notes and Changelog](#) and version-specific Upgrade Guides for the version you are upgrading to, as well as for any versions you are skipping.
- Read the **Supported platforms** page for the full list of supported platforms for Crucible.
- Download the Crucible zip file.
- Once the new version of Crucible is installed, remember to update any custom configurations in the new version of Crucible, for example your SQL driver and your wrapper.config file.

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

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

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

### Method 1: Using a **FISHEYE_INST** directory

> **Click here to expand...**

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

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

### Method 2: Without a **FISHEYE_INST** directory

> **Click here to expand...**

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

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

1. Download FishEye or Crucible.
2. Extract the new FishEye/Crucible archive into a directory such as `<New FishEye home directory>`.
3. Shut down the old FishEye/Crucible server, using `bin\stop.bat` or `bin\stop.sh` from the `<FishEye home directory>`.
4. Copy `<FishEye home directory>/config.xml` to `<New FishEye home directory>`.
5. Delete the 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>.
   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 3.2

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 3.2:

**REST endpoint change**

For Crucible 3.2, the RestReviewService.remindIncompleteReviewers()
User documentation for Crucible 3.2

('/rest-service/reviews-v1/{reviewId}/remind') end point was changed from accepting 'application/x-www-form-urlencoded' content type with 'message' and 'recipient' params to 'application/json' content type with 'message' and 'recipients' JSON fields. See https://docs.atlassian.com/fisheye-crucible/latest/w adi/crucible.html#d2e1881.

**User data is moved from data0.bin to the SQL database**

An upgrade task is run on startup that moves user data to the SQL database. We are doing this to mitigate the risk of data corruption or loss.

**XSRF protection**

FishEye/Crucible 3.2.0 includes protection against XSRF attacks.

If you have implemented a LightSCM plugin, and have used the SimpleConfigurationServlet base class provided in the scmutils library, you will need to modify your administration page so that it performs 'delete' operations using an HTTP POST, not a GET.

You can have FishEye convert your anchor tags to form POSTs at runtime by giving them the class "anchor-post". For example, the anchor:

```html
<a class="anchor-post" href="#" data-href="/fsscm?name=TEST&delete=true">Delete</a>
```

will be converted into a form which POSTs to /fsscm with form parameters name=TEST and delete=true.

**Internally managed Git repositories no longer supported**

As previously announced, internally managed Git repositories are no longer supported by FishEye 3.2.

Please read the migration guide for information about options and procedures for migrating your internally managed Git repositories – note that we recommend that you upgrade to FishEye 3.2 before migrating any internally managed repositories.

**Supported platform upgrades**

- Communication with JIRA versions older than 5.0 is no longer supported.
- Microsoft SQL Server 2012 is now supported (support for SQL Server 2005 is deprecated).
- Microsoft Internet Explorer 10 is now supported (support for IE 8 is deprecated).
- MySQL 5.0 is deprecated.
- PostgreSQL 8.2 is deprecated.
- The Atlassian AUI plugin has been upgraded to AUI 5.2.
- jQuery has been upgraded to 1.8.3.
- backbonejs has been upgraded to 1.0.

**Known issues for Crucible 3.2**

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>🛑</td>
<td>CRUC-6158</td>
<td>Review performance in IE 8&amp;9 is pathetic</td>
<td>Open</td>
</tr>
<tr>
<td>🛑</td>
<td>CRUC-6485</td>
<td>Indicate that the listing of reviewers is truncated in the Edit Details view</td>
<td>Open</td>
</tr>
</tbody>
</table>

Authenticate to retrieve your issues

2 issues

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**

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄</td>
<td>CRUC-6597</td>
<td>Cyrillic is not working in comments</td>
<td>Open</td>
</tr>
<tr>
<td>🔄</td>
<td>CRUC-6596</td>
<td>Resolving long content hashes from short content hashes in git patches goes over the whole contentHashDB for each hash in patch</td>
<td>Open</td>
</tr>
<tr>
<td>🔄</td>
<td>CRUC-6568</td>
<td>Duplicated files on review</td>
<td>Open</td>
</tr>
</tbody>
</table>

Authenticate to retrieve your issues

3 issues

*Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.*
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

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-6567</td>
<td>Perforce native SCM management get branches completely wrong</td>
<td>Open</td>
</tr>
<tr>
<td></td>
<td>CRUC-6521</td>
<td>File creation is not displayed as change</td>
<td>Open</td>
</tr>
<tr>
<td></td>
<td>CRUC-6596</td>
<td>Resolving long content hashes from short content hashes in git patches goes over the whole contentHashDB for each hash in patch</td>
<td>Open</td>
</tr>
<tr>
<td></td>
<td>CRUC-6553</td>
<td>Upgrade to 3.0.x may fail if there are unprocessed cru_feindex_msg rows</td>
<td>Open</td>
</tr>
<tr>
<td></td>
<td>CRUC-6550</td>
<td>Code Review UI real estate misallocation</td>
<td>Open</td>
</tr>
<tr>
<td></td>
<td>CRUC-6528</td>
<td>User still suggested for review after disabling for him Crucible</td>
<td>Open</td>
</tr>
</tbody>
</table>
Checking for known issues and troubleshooting the Crucible upgrade

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

- **Check for known issues.** Sometimes we find out about a problem with the latest version of Crucible after we have released the software. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the Fisheye and Crucible Known Issues in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.

- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to troubleshooting upgrades in the Crucible Knowledge Base.

- If you encounter a problem during the upgrade and cannot solve it, please create a support ticket and one of our support engineers will help you.

**Upgrading from FishEye to Crucible**

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

- Read about how your Crucible installation works with FishEye.

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

- Read more about the FISHEYE_INST environment variable.
On this page:
- Upgrade procedure
  - Method 1: Without a FISHEYE_INST directory (default)
  - Method 2: Using a FISHEYE_INST directory
  - Method 3: No FISHEYE_INST directory, but wish to use one
  - Initial Crucible configuration

Upgrade procedure

- We strongly recommend that you make a backup of your data before following one of the methods below. Refer to making a backup.
- Follow Method 1 if you have a default configuration and are not using a FISHEYE_INST directory (that is, your FishEye binaries and data are all stored under the same location, in the default `<FishEye home directory>`). This is the typical scenario for evaluation installations.
- Follow Method 2 below if you have FishEye configured to use a FISHEYE_INST directory (that is, your FishEye binaries are stored in the `<FishEye home directory>`, separately from your FishEye data directory, which has a location defined by FISHEYE_INST). This is the recommended scenario for production installations.
- Follow Method 3 if you are not using a FISHEYE_INST directory but would now like to start using one. You may wish to do this when configuring an existing installation for a production environment.

Method 1: Without a FISHEYE_INST directory (default)

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

Method 2: Using a FISHEYE_INST directory

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

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

1. Shut down your existing FishEye server, if it is running.
2. Create a new directory on your filesystem, then set up a FISHEYE_INST environment variable to point to the new directory.
3. Copy the `<FishEye home directory>/config.xml` to the FISHEYE_INST directory.
4. Copy the `<FishEye home directory>/var directory` to the FISHEYE_INST directory.
5. Download Crucible.
6. Extract the new Crucible archive into a directory such as `<Crucible directory>`.
7. Start Crucible from the new installation by running `<Crucible directory>/bin/run.sh` (Use run.
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. 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 3.2 release notes

27 November 2013

Today we’re excited to release Crucible 3.2, which brings a range of usability and platform improvements.

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 3.2 changelog is at the bottom of this page.

Quick Search filters

We’ve added filters to QuickSearch, to make finding the content you want even... quicker!

Now, in Crucible 3.2, you can also filter by the last modified date and by author.

Of course, for a while now, you’ve been able to filter search results by reviews and review comments, and restrict the search scope for reviews to a particular project. And when used with Atlassian FishEye, you can filter for different source types such as files and directories, commit messages, diffs, file content, and committers.
Internally managed Git repositories are no longer supported

As previously announced, internally managed Git repositories are no longer supported by FishEye 3.2. Please read the migration guide for information about options and procedures for migrating your internally managed Git repositories.

Crucible communication with JIRA versions older than 5.0 is no longer supported

As previously announced, communication with JIRA versions older than 5.0 is no longer supported by Crucible 3.2. Please note that communication from JIRA to Crucible will continue to work as it currently does.

Small improvements

Platform upgrades

- Microsoft SQL Server 2012 is now supported (support for SQL Server 2005 is deprecated).
- Microsoft Internet Explorer 10 is now supported (support for IE 8 is deprecated).
- MySQL 5.0 is deprecated.
- PostgreSQL 8.2 is deprecated.
- The Atlassian AUI plugin has been upgraded to AUI 5.2.
- jQuery has been upgraded to 1.8.3.
- backbonejs has been upgraded to 1.0.

See Supported platforms.

Improved protection against XSRF attacks

We’ve added a security token to protect Crucible from XSRF attacks and to allow plugin developers to add protection to their plugins. See the Crucible upgrade guide for details of changes required by LightSCM plugins.
User data moved to the SQL database

To prevent any chance of loss, the user data store has relocated. See the Crucible Upgrade guide for details.

Change log

This section will contain information about the Crucible 3.2 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 3.2.x releases.

27 November 2013 - Crucible 3.2.0

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="issue" /></td>
<td>CRUC-6609</td>
<td>JIRA issue transition after closing review looks bad</td>
</tr>
<tr>
<td><img src="image" alt="issue" /></td>
<td>CRUC-6624</td>
<td>Document changes to the sharing features of Crucible</td>
</tr>
<tr>
<td><img src="image" alt="issue" /></td>
<td>CRUC-6620</td>
<td>Broken tooltip in quicknav for reviews</td>
</tr>
<tr>
<td><img src="image" alt="issue" /></td>
<td>CRUC-6608</td>
<td>Review indexing interrupted by killing application does not continue after restart</td>
</tr>
<tr>
<td><img src="image" alt="issue" /></td>
<td>CRUC-6595</td>
<td>Some Ajax calls never return, eventually timeout with a 502 proxy error</td>
</tr>
<tr>
<td><img src="image" alt="issue" /></td>
<td>CRUC-6588</td>
<td>Make it possible to query only selected users via REST</td>
</tr>
<tr>
<td><img src="image" alt="issue" /></td>
<td>CRUC-6587</td>
<td>REST /users-v1/username should return a limited data set for other users</td>
</tr>
<tr>
<td><img src="image" alt="issue" /></td>
<td>CRUC-6586</td>
<td>Should return avatar from external server if configured</td>
</tr>
<tr>
<td><img src="image" alt="issue" /></td>
<td>CRUC-4697</td>
<td>Empty strings accepted in proxy-host / proxy-scheme</td>
</tr>
<tr>
<td><img src="image" alt="issue" /></td>
<td>CRUC-3008</td>
<td>REST should return a 401 when using invalid basic http credentials instead of falling back to anonymous</td>
</tr>
</tbody>
</table>

10 issues

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.

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

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.
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.

30 October 2013 - Crucible 3.1.5

There are no Crucible-specific fixes in this release. See the FishEye 3.1 release notes for some general issues that have been fixed.

<table>
<thead>
<tr>
<th>Key</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRUC-6644</td>
<td>Error removing files from pre-commit patch</td>
</tr>
</tbody>
</table>

[Authenticate to retrieve your issues]

1 issue

8 October 2013 - Crucible 3.1.4

This release also includes some minor security fixes.

<table>
<thead>
<tr>
<th>Key</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRUC-6620</td>
<td>Broken tooltip in quicknav for reviews</td>
</tr>
</tbody>
</table>

[Authenticate to retrieve your issues]

1 issue

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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-6595</td>
<td>Some Ajax calls never return, eventually timeout with a 502 proxy error</td>
</tr>
</tbody>
</table>

[Authenticate to retrieve your issues]

1 issue

11 September 2013 - Crucible 3.1.2

- a few XSS security issues addressed

29 August 2013 - Crucible 3.1.1

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-6584</td>
<td>Unable to create reviews after upgrade to 3.1</td>
</tr>
</tbody>
</table>

[Authenticate to retrieve your issues]
**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.

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.

### Crucible 3.1.0

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>CRUC-6384</td>
<td>Allow issue transitions for issues raised in Inline Issue Creation</td>
</tr>
<tr>
<td></td>
<td>CRUC-6530</td>
<td>Remove Crucible Transition error as a warning</td>
</tr>
<tr>
<td></td>
<td>CRUC-6534</td>
<td>Type when starting FishEye/Crucible</td>
</tr>
<tr>
<td></td>
<td>CRUC-6525</td>
<td>upgrade to 3.x release occasionally fails when deduplicating paths in db</td>
</tr>
<tr>
<td></td>
<td>CRUC-6417</td>
<td>Better handling of Authentication Errors when manually linking a Review to a JIRA Issue</td>
</tr>
<tr>
<td></td>
<td>CRUC-6416</td>
<td>Optimize number of database queries for Crucible instances with Many Projects and Permission Schemes</td>
</tr>
<tr>
<td></td>
<td>CRUC-6339</td>
<td>Send notifications for replies to comments even if the user is not in the review</td>
</tr>
</tbody>
</table>

---

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
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:

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.

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
<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-6556</td>
<td>Error editing permission scheme action containing deleted user</td>
</tr>
<tr>
<td></td>
<td>CRUC-6552</td>
<td>Searching over REST for a JIRA Project key doesn't look at Review Linked Issues</td>
</tr>
<tr>
<td></td>
<td>CRUC-6537</td>
<td>Deleting and recreating projects with keys which differ only in case can cause NonUniqueResultException on Viewing Review</td>
</tr>
</tbody>
</table>

3 issues

**2 July 2013 - Crucible 3.0.2**

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

4 issues

**6 June 2013 - Crucible 3.0.1**

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-6491</td>
<td>duplicated null cru_stored_path rows leads to 3.0 upgrade problems</td>
</tr>
</tbody>
</table>

1 issue

**28 May 2013 - Crucible 3.0.0**

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
</tr>
</thead>
</table>

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
CRUC-6434  Add disclaimer that "Create crucible review" is only available with FishEye integration
CRUC-6414  Update on 'Editing a Project' documentation
CRUC-6271  Update on Using Gadgets in Crucible documentation
CRUC-6410  Allow /filter/details to include a date range filter
CRUC-6361  Change semantics of j/k shortcuts in Crucible, be consistent with the new diff navigation in Fisheye
CRUC-6394  Crucible Project Repository Link is Broken if Leading Slash Is Omitted
CRUC-6391  Documentation Update for JIRA Integration
CRUC-6349  Crucible and FishEye Page Contains Outdated Information
CRUC-4719  Improve Project Creation/Editing with large user base
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 containing a project key longer than 10 characters, containing underscores _
CRUC-6395  Inconsistent Repository Links on Project Page
CRUC-6390  Documentation Update for Smart
Crucible 2.10 release notes

15 January 2013

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

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

Highlights of this release:

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

Providing feedback:

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

Inline Issue Creation

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

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 wty wicicki
Richard Stephens
Tom Davies
Valery Trubnikov

Team lead
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
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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄</td>
<td>CRUC-6555</td>
<td>Can't use distinct in queries on tables with CLOB types in Oracle</td>
<td>🔄 Closed</td>
</tr>
</tbody>
</table>

 Authenticate to retrieve your issues

1 issue

### 05 July 2013 - Crucible 2.10.6

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄</td>
<td>CRUC-6416</td>
<td>Optimize number of database queries for Crucible instances with Many Projects and Permission Schemes</td>
<td>🔄 Closed</td>
</tr>
</tbody>
</table>

 Authenticate to retrieve your issues

1 issue

### 06 Jun 2013 - Crucible 2.10.5

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄</td>
<td>CRUC-6463</td>
<td>Multiple open transactions in idle instance</td>
<td>🔄 Closed</td>
</tr>
</tbody>
</table>

 Authenticate to retrieve your issues

1 issue

### 02 Apr 2013 - Crucible 2.10.4
<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-6394</td>
<td>Crucible Project Repository Link is Broken if Leading Slash Is Omitted</td>
<td>Closed</td>
</tr>
<tr>
<td></td>
<td>CRUC-6412</td>
<td>Stream has already been closed on getting Notifications</td>
<td>Closed</td>
</tr>
<tr>
<td></td>
<td>CRUC-6408</td>
<td>URLs in comments with # followed by ! and other characters are not correctly generated</td>
<td>Closed</td>
</tr>
<tr>
<td></td>
<td>CRUC-6395</td>
<td>Inconsistent Repository Links on Project Page</td>
<td>Closed</td>
</tr>
<tr>
<td></td>
<td>CRUC-5238</td>
<td>URLs with # in comments do not render properly</td>
<td>Closed</td>
</tr>
<tr>
<td></td>
<td>CRUC-2747</td>
<td>Review details says &quot;Reviewer is 100% complete&quot; when she hasn’t completed the review</td>
<td>Closed</td>
</tr>
</tbody>
</table>

Authenticate to retrieve your issues

6 issues

19 Mar 2013 - Crucible 2.10.3

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-6398</td>
<td>Unable to link to JIRA issues containing a project key longer than 10 characters, containing underscores</td>
<td>Closed</td>
</tr>
</tbody>
</table>

Authenticate to retrieve your issues

1 issue

25 Feb 2013 - Crucible 2.10.2

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-6385</td>
<td>An SQLException can corrupt a connection in the connection pool and cause Crucible to become unstable</td>
<td>Closed</td>
</tr>
<tr>
<td></td>
<td>CRUC-6383</td>
<td>Inline Issue Creation</td>
<td>Closed</td>
</tr>
</tbody>
</table>
### User documentation for Crucible 3.2

**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

Authenticate to retrieve your issues

7 issues

### 29 Jan 2013 - Crucible 2.10.1

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td>CRUC-6274</td>
<td>Update Add Comments related Crucible document</td>
<td>Closed</td>
</tr>
<tr>
<td>☑</td>
<td>CRUC-6344</td>
<td>Change Inline Issue Creation upgrade task warning</td>
<td>Closed</td>
</tr>
<tr>
<td>☑</td>
<td>CRUC-6342</td>
<td>LazyInitializationException during indexing of repositories containing Changeset Comments</td>
<td>Closed</td>
</tr>
<tr>
<td>☑</td>
<td>CRUC-6333</td>
<td>IIC Plugin makes unneeded AJAX requests on pages other than the review page</td>
<td>Closed</td>
</tr>
</tbody>
</table>

Authenticate to retrieve your issues

4 issues

### 15 Jan 2013 - Crucible 2.10.0

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>CRUC-6282</td>
<td>If an Entity Link is present between a JIRA Project and a Crucible</td>
<td>Closed</td>
</tr>
</tbody>
</table>

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
Project, then a review created from the JIRA Source Tab should default to the entity linked Crucible Project.

CRUC-6351 Managing Add-Ons Page Refers to Add-On That Is Not Compatible With Latest Versions

Closed

CRUC-6143 When Creating Jira Issues From a Code Review Provide Capability to Handle REQUIRED Fields

Closed

CRUC-6031 Need keyboard shortcuts for moving to previous, current, and next diff.

Closed

CRUC-5847 The Graph should display % and also value.

Closed

CRUC-5628 Add Ability to Limit Number and/or Size of Crucible Reviews

Closed

CRUC-6267 No success/error notification when creating JIRA issue directly from comment

Closed

CRUC-6266 Smart commit plugin does not handle multi-line commit messages

Closed

CRUC-6259 Share review user suggestion contain deleted user

Closed

CRUC-6249 There is no pre-load handling for next diff?

Closed

CRUC-6248 Double infinite spinner, what does it mean?

Closed

CRUC-6210 Deleted users are appearing in reviewer, moderator dropdown

Closed

CRUC-6142 "Edit Review Details" end sometimes in "The server is not responding" but the server is ok

Closed

CRUC-6072 FeCru REST API docs don't provide description of the XML tags.

Closed
CRUC-6038  Error creating subtask in JIRA:
com.atlassian.jira.rpc.exception.RemotePermissionException: This issue does not exist or you don't have permission to view it.

CRUC-5716  GWT error when navigating away from loading page

CRUC-5666  Snippet review link is displayed even if user doesn't have permission to create a review in any project

CRUC-2667  Not able to create the subtask in JIRA if some of the fields are required in the subtask creation screen

CRUC-2202  NPE thrown when trying to change project key

Authenticate to retrieve your issues

19 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.

We have improved JIRA issue creation from Crucible with a feature called Inline Issue Creation. It uses JIRA APIs introduced in JIRA 5.0, so it is not compatible with earlier versions. It also has some changed behaviour from the old "Crucible Subtask Creation".

If you are using JIRA 4.4 or earlier

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

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

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

If you are using JIRA 5.0 or later
Removed functionality:
- The ability to "Resolve" after the issue has been created has been removed. Users will now have to transition issues via the JIRA interface.
- Existing subtasks that have been created will still be visible, however you will not be able to resolve them.

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

Crucible 2.9 release notes

14 November 2012

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

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

Highlights of this release:

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

Providing feedback:

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

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

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

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

Activity

All Comments Work Log History Activity Commits Source Reviews Builds

CR-FE-6832 Closed
FECRU-2766: re-enable highlights for ie
(cs:id=e32efa760e815697497b33e10303821747274139[rep=FE-hg]): FECRU-2766: re-enable highlights for ie

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.
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.

![Benchmark for review creation](chart)

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  
Łukasz Pater  
Maciej Swinarski  
Piotr wity wicicki  
Richard Stephens  
Tom Davies  
Valery Trubnikov

Team lead

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
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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
</table>
thread
loca
t session.

FE-435
7
Improv
e the
way
permis
sions
are han
dled, as a
lot of
time is
spent in
user/re
po
permis
sion
checks,
which
should be
cached

Brenda
Humph
reys
[Atlassi
an]

Geoff
Crain
[Atlassi
an]

↑

ed

Closed

Nov 07,
2012

Jun 14,
2013

From 2.9.0 to 2.9.1

19 November 2012

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-6279</td>
<td>Next review comment button does not work</td>
<td>Unassigned</td>
<td>Kah Loun Foong</td>
<td>↓</td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Nov 21, 2012</td>
<td>Nov 26, 2012</td>
</tr>
<tr>
<td></td>
<td>CRUC-6272</td>
<td>Crucible calls out to JIRA once per Comm ent</td>
<td>Geoff Crain</td>
<td>Geoff Crain</td>
<td>↑</td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Nov 13, 2012</td>
<td>Nov 19, 2012</td>
</tr>
</tbody>
</table>

Authenticate to retrieve your issues

4 issues

2 issues
### Crucible 2.9

#### 14 November 2012

The complete list of issues is below.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
</table>
repository, no caches are included.

**Perforce patches cannot be anchored**

**Gravatar avatars don't show**

**Dead link on README.html file**

**Deadlocks occur in C3PO GooGoStatementCache when using MS SQL Server**

**Chrome crashes if during a code review the user navigates using the shortcuts**

**In a Review containing a**
CRUC-5731
No entity exists with key ${helper.project.key} of type com.atlassian.applink.s.api.application.fecru.FishEyeCrucibleProjectType

Geoff Crain
[Atlassian]
Felipe Kraemer
[Atlassian]

Authenticate to retrieve your issues

12 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
With great pleasure, Atlassian presents Crucible 2.8, introducing social features and performance improvements.

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

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

- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the Crucible 2.8 Upgrade Guide for further essential information about your upgrade.

- **Known Issues.** Please check the important technical advisories on the front page of the Knowledge Base for information about any known issues for this release.
Highlights of this release:

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

Providing feedback:

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

1 Mentions

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

2 Shares

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
You can now share reviews with other users of Crucible as well as external people via their email. Sharing Crucible content has never been easier.

**3**  
Improved performance for the projects listing

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

**4**  
Support for Subversion 1.7

Crucible now supports Subversion 1.7.

**5**  
End of life announcements

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

Development

Core team
Geoff Crain
Tom Davies
Brendan Humphreys
Conor MacNeill
Richard Stephens

Team lead
Nick Pellow

Product management
Sten Pittet

Project manager
Anton Mazkovoi

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

Others

Product marketing
Giancarlo Lionetti
Jeff Park

Quality assurance
George Filipoff

Technical writing
Paul Watson

Operations
James Fleming

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
</table>

Authenticate to retrieve your issues

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
## 2 issues

### Crucible 2.8

**15 August 2012**

The complete list of issues is below.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Create</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>🐥</td>
<td>CRUC-6156</td>
<td>Test upgrade from 2.7 to 2.8 on all Supported DBs</td>
<td>Unassigned</td>
<td>Nick Pellow [Atlassian]</td>
<td></td>
<td>[ ] Closed</td>
<td>Fixed</td>
<td>Jun 21, 2012</td>
<td>Jul 02, 2012</td>
</tr>
<tr>
<td>🐥</td>
<td>CRUC-6104</td>
<td>Allow sharing reviews using emails or account</td>
<td>Unassigned</td>
<td>Felipe Kraemer [Atlassian]</td>
<td>![Downvote]</td>
<td>[ ] Closed</td>
<td>Fixed</td>
<td>Apr 04, 2012</td>
<td>Aug 13, 2012</td>
</tr>
<tr>
<td>🐦</td>
<td>CRUC-6168</td>
<td>A null review participant causes review indexing to fail partway through the set of reviews</td>
<td>Tom Davies [Atlassian]</td>
<td>Tom Davies [Atlassian]</td>
<td>![Downvote]</td>
<td>[ ] Closed</td>
<td>Fixed</td>
<td>Jul 10, 2012</td>
<td>Sep 27, 2012</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------------------------------------------</td>
<td>--------------------------</td>
<td>------------------------</td>
<td>------------</td>
<td>--------------</td>
<td>--------------</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
16 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 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](https://confluence.atlassian.com/display/CrucibleKnowledgeBase). 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](https://confluence.atlassian.com/display/CrucibleKnowledgeBase).

- If you encounter a problem during the upgrade and cannot solve it, please create a [support ticket](https://confluence.atlassian.com/display/CrucibleSupportTickets) 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

![Download latest version](https://confluence.atlassian.com/download/latestversion.png)

- 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**

1

**JIRA Transitions in Crucible**

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

After **closing a review**, Crucible will now display any available transitions for the linked JIRA issue.
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.
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 straightforward. We strongly recommend that you back up Crucible before upgrading. Please refer to the Crucible 2.7 Upgrade Guide for further essential information about your upgrade.

- **Known Issues.** Please check the important technical advisories on the front page of the Knowledge Base for information about any known issues for this release.

Crucible 2.7 Changelog

This page contains information about the Crucible 2.7 minor releases. FishEye license holders should also check the FishEye 2.7 Changelog.

See the Crucible 2.7 Release Notes for details of what's new in 2.7.0.
Please read the **Crucible 2.7 Upgrade Guide** before upgrading to any of the minor releases below.

**On this page:**
- From 2.7.14 to 2.7.15
- 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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Issue Type</td>
<td>Description</td>
<td>Assignee</td>
<td>Reporter</td>
<td>Status</td>
<td>Created</td>
<td>Updated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>------------------------</td>
<td>-------------------</td>
<td>-------------</td>
<td>---------</td>
<td>------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-417</td>
<td>Bug</td>
<td>Getting &quot;No entity exists with key &lt;REPO NAME&gt; of type com.atlassian.applink.s.api.application.fecru.FishEyeRepositoryEntityTy pe&quot; editing clicking applink s for a repository</td>
<td>Unassigned</td>
<td>David Corley</td>
<td>Closed</td>
<td>Jul 05, 2012</td>
<td>Jul 09, 2012</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
7 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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
</table>

Authenticate to retrieve your issues
commit s that interact with JIRA will not work

FE-410 6
Fishey e 2.7.13 startup error when FISHE YE_IN ST have spaces

FE-410 5
100+ request s of type "update JiraTimeAjaxId efault" timing out when modifyi ng Time Spent

FE-410 3
NPE when indexin g git repo with missing ancestor

CRUC-6107 Error synchr onizing users: null

Authenticate to retrieve your issues

6 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.
<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄</td>
<td>FE-396</td>
<td>Emulate pre-2.7 behaviour: when an user is created by the user synchronisation, restore any deleted user with the same username</td>
<td>Brenda Humphreys [Atlassian]</td>
<td>Pierre-Etienne Poirot [Atlassian]</td>
<td>↑</td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Feb 16, 2012</td>
<td>Aug 20, 2012</td>
</tr>
<tr>
<td>♂</td>
<td>CRUC-6092</td>
<td>Email generated via &quot;Tools -&gt; Email Review &quot; has incorrect comment URLs</td>
<td>Brenda Humphreys [Atlassian]</td>
<td>Sylvia Yee</td>
<td>↓</td>
<td>Res olved</td>
<td>Fixed</td>
<td>Mar 16, 2012</td>
<td>May 18, 2012</td>
</tr>
<tr>
<td>🔄</td>
<td>FE-401</td>
<td>Add authenticated user in</td>
<td>Brenda Humphreys</td>
<td>Issa</td>
<td>↑</td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Mar 26, 2012</td>
<td>Apr 05, 2012</td>
</tr>
</tbody>
</table>

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CRUC-6009</td>
<td>Allow plugins to detect changes to reviewers or moderator</td>
<td>Brenda Humphreys [Atlassian]</td>
<td>Olli Nevalainen [Atlassian]</td>
<td>Clos</td>
<td>Fixed</td>
<td>Dec 22, 2011</td>
</tr>
<tr>
<td>FE-408</td>
<td>hidden text behind the left navigation panel when using Firefox 12</td>
<td>Unassigned</td>
<td>Leonardo De Macedo [Atlassian]</td>
<td>Clos</td>
<td>Fixed</td>
<td>May 01, 2012</td>
</tr>
<tr>
<td>FE-406</td>
<td>CC Indexing can fetch version 0 and index it even if before the start date.</td>
<td>Conor MacNeill [Atlassian]</td>
<td>Conor MacNeill [Atlassian]</td>
<td>Clos</td>
<td>Fixed</td>
<td>Apr 17, 2012</td>
</tr>
</tbody>
</table>
t in security config can stop AJPAuth working

FE-404 3 Handle NPE caused by change set without a position value in Commit Graph

FE-403 6 P4 GetLatestRevision will fail for paths with no revisions - leads to excessive logging.

FE-403 4 Copy from a file which existed before the start-revision is ignored.

FE-402 9 Store Performce Branch Details

FE-402 5 Modified port not reflecte
Showing 20 out of 39 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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
</table>
### FE-397
Commit Calendar incorrect for projects including several paths in the same repository

- **Assignee:** Tom Davies [Atlassian]
- **Reporter:** Tom Davies [Atlassian]
- **Status:** Closed
- **Resolution:** Fixed
- **Created:** Feb 23, 2012
- **Updated:** Feb 29, 2012

### FE-396
The 'Parameters' on the 'Database Configuration' page are ignored.

- **Assignee:** Tom Davies [Atlassian]
- **Reporter:** Tom Davies [Atlassian]
- **Status:** Closed
- **Resolution:** Fixed
- **Created:** Feb 22, 2012
- **Updated:** Oct 03, 2012

---

7 issues

**From 2.7.10 to 2.7.11**

**27 February 2012**

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>FE-393</td>
<td>Add properties to stop</td>
<td>Matthew Watson</td>
<td>Matthew Watson</td>
<td></td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Feb 08, 2012</td>
<td>Feb 27, 2012</td>
</tr>
</tbody>
</table>
branch and tag point ancestry detection for SVN

<table>
<thead>
<tr>
<th>FE-393</th>
<th>Null Pointer Exception</th>
<th>Brenda Humphreys</th>
<th>Cardinal Armand du Plessis de Richelieu First Minister of Louis XIII</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>com.ce.nqua.fi.sheyerep.impl.CommonFileRevision.setAuthor(CommonFileRevision.java:149)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FE-395</th>
<th>Content Indexing: Filter the paths to index before processing the list twice.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>FE-395</th>
<th>Lucene re-index is only triggered for cross-repo until after first commit</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>FE-395</th>
<th>Content Indexing: Add an option to only index</th>
</tr>
</thead>
</table>

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
trunk, not root and trunk

FE-395 5
Relinde:
Only delete all the content docs if there are >0 docs in the index

Matthe
w Watson
[Atlassi
an]  Mathwe
w Watson
[Atlassi
an]

CRUC-6051

CRUC-6051

CRUC-6051

Per
user LoC
figures are
meaningless when
the 'All'
button is
selected

Tom
Davies
[Atlassi
an]  Tom
Davies
[Atlassi
an]

FE-395 3

FE-395 3

FE-395 2
Breadc
umb links on
the Users
 tab are incorre
cct when a branch is
selected

Tom
Davies
[Atlassi
an]  Tom
Davies
[Atlassi
an]

FE-393 9

PHP syntax
highlighting
incorrectly

Brendan
Humphreys
[Atlassi
an]  Chris
Butler

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
| FE-392 | FishEye treats files as binary if they used to have a svn:mi me-type property, even after the property has been removed | Michael Heemskerk [Atlassian] | Michael Heemskerk [Atlassian] | ↓ | Clos | Fixed | Jan 27, 2012 | Feb 23, 2012 |
ies, and scmutil.s.jar is missing.

**FE-390** Upgrade from 2.5->2.7 fires events for all commits and replays all smart commits


**FE-388** Smart Commits: Using the #time command with a complex time format (i.e. 2d 4h) only saves the 2d part


**FE-385** Unable to add users when using IE8


**FE-385** Old broken Support Zip link still present


**FE-360** Issue keys, wrapped in square brackets [JRA-9]

Showing 20 out of 25 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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt=" " /></td>
<td>FE-390 3</td>
<td>Unable to see FishEye activity stream in JIRA Activity Stream gadget on dashboard when have Repository with no description</td>
<td>Unassigned</td>
<td>Matthew Watson [Atlassian]</td>
<td><img src="image" alt=" " /></td>
<td><img src="image" alt=" " /></td>
<td>Closed</td>
<td>Fixed</td>
<td>Jan 19, 2012</td>
</tr>
<tr>
<td><img src="image" alt=" " /></td>
<td>FE-390 2</td>
<td>Issue Transition controls don't appear when closing a review</td>
<td>Unassigned</td>
<td>None</td>
<td><img src="image" alt=" " /></td>
<td><img src="image" alt=" " /></td>
<td>Closed</td>
<td>Fixed</td>
<td>Jan 19, 2012</td>
</tr>
<tr>
<td><img src="image" alt=" " /></td>
<td>FE-390 0</td>
<td>fecru-review-issue-transition-plugin fails under fisheye</td>
<td>Unassigned</td>
<td>Nick Pellow [Atlassian]</td>
<td><img src="image" alt=" " /></td>
<td><img src="image" alt=" " /></td>
<td>Closed</td>
<td>Fixed</td>
<td>Jan 19, 2012</td>
</tr>
</tbody>
</table>
### From 2.7.8 to 2.7.9

**19 January 2012**

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priorit y</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>#</td>
<td>Issue</td>
<td>Summary</td>
<td>Assignee(s)</td>
<td>Status</td>
<td>Resolution</td>
<td>Created</td>
<td>Fixed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>-------</td>
<td>-------------------------------------------------------------------------</td>
<td>-------------------</td>
<td>--------</td>
<td>------------</td>
<td>---------</td>
<td>--------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-389</td>
<td>Webwork 2 vulnerability</td>
<td>Privileges for a Crowd group when Crowd is not up when FishEye is starting up</td>
<td>Vitaly Osipov [Atlassian]</td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Jan 17, 2012</td>
<td>Jan 31, 2012</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-388</td>
<td>FishEye does not correctly handle moved tags</td>
<td>FishEye does not correctly handle moved tags</td>
<td>Conor MacNeill [Atlassian]</td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Jan 16, 2012</td>
<td>Jan 18, 2012</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-388</td>
<td>Default UserManager. getUsersInGroup incorrectly acquires a write lock instead of a read lock</td>
<td>Default UserManager. getUsersInGroup incorrectly acquires a write lock instead of a read lock</td>
<td>Brenda Humphreys [Atlassian]</td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Jan 13, 2012</td>
<td>Jan 13, 2012</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-388</td>
<td>P4 client doesn't handle job names with a leading -</td>
<td>P4 client doesn't handle job names with a leading -</td>
<td>Brenda Humphreys [Atlassian]</td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Jan 09, 2012</td>
<td>Jan 10, 2012</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-387</td>
<td>When processing performance file revisions, only</td>
<td>When processing performance file revisions, only</td>
<td>Anna Buttfield [Atlassian]</td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Jan 08, 2012</td>
<td>Jan 09, 2012</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Branch specs that have been added or modified since the last restart are considered</td>
<td>Anna Buttfield [Atlassian]</td>
<td>Anna Buttfield [Atlassian]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SVN property changes with content lines containing certain strings break diff parsing</td>
<td>Anna Buttfield [Atlassian]</td>
<td>Anna Buttfield [Atlassian]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JS errors in ie8</td>
<td>Brenda Humphreys [Atlassian]</td>
<td>Brenda Humphreys [Atlassian]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lock management in Lucene Connection</td>
<td>Felipe Kraemer [Atlassian]</td>
<td>Felipe Kraemer [Atlassian]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clicking on repository in Fisheye Administration generates error dialog in IE8</td>
<td>Brenda Humphreys [Atlassian]</td>
<td>Rene Verschoor [Atlassian]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trying to look at the source of an</td>
<td>Brenda Humphreys [Atlassian]</td>
<td>Rene Verschoor [Atlassian]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
empty file results in java.lang.ArrayIndexOutOfBoundsException - -1

CRUC-6028 Internal avatar on change set commit is broken

CRUC-6022 getReviewsByI ds performs N queries

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

CRUC-6010 Crucible search doesn't deal properly with author user names containing punctuation
### From 2.7.7 to 2.7.8

#### 30 November 2011

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Create Date</th>
<th>Update Date</th>
</tr>
</thead>
</table>

**Authenticate** to retrieve your issues

Showing 20 out of 23 issues
<table>
<thead>
<tr>
<th>Issue</th>
<th>Title</th>
<th>Details</th>
<th>Assignee(s)</th>
<th>Status</th>
<th>Fixed Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRUC-5925</td>
<td>In Git, our separation of files by branch can be confusing</td>
<td>Pierre-Etienne Poirot [Atlassian] Wesley Walser [Atlassian]</td>
<td></td>
<td>Clos ed</td>
<td>Sep 28, 2011</td>
</tr>
<tr>
<td>FE-374</td>
<td>Changi Pierre-Rene</td>
<td></td>
<td></td>
<td>Clos</td>
<td>Sep 26, 2011</td>
</tr>
<tr>
<td>Issue</td>
<td>Summary</td>
<td>Assigned to</td>
<td>Resolution</td>
<td>Created</td>
<td>Resolved</td>
</tr>
<tr>
<td>-------</td>
<td>---------</td>
<td>-------------</td>
<td>------------</td>
<td>---------</td>
<td>----------</td>
</tr>
<tr>
<td>FE-3040</td>
<td>FishEye Access Logging is not writing the username</td>
<td>Pierre-Etienne Poirot [Atlassian]</td>
<td>Closed</td>
<td>Apr 27, 2011</td>
<td>Nov 29, 2011</td>
</tr>
<tr>
<td>CRUC-5927</td>
<td>Improve behaviour when licence limits are exceeded</td>
<td>Pierre-Etienne Poirot [Atlassian]</td>
<td>Closed</td>
<td>Sep 29, 2011</td>
<td>Nov 30, 2011</td>
</tr>
</tbody>
</table>

Authenticate to retrieve your issues

12 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.
<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>🍀</td>
<td>FE-383 6</td>
<td>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</td>
<td>Anna Buttfeld [Atlassian]</td>
<td>Anna Buttfeld [Atlassian]</td>
<td>🟢</td>
<td>🍀</td>
<td>Clos ed</td>
<td>Nov 17, 2011</td>
<td>Nov 18, 2011</td>
</tr>
<tr>
<td>ID</td>
<td>Description</td>
<td>Assignee</td>
<td>Status</td>
<td>Fixed Date</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>------------------------------------------------------------------------------</td>
<td>----------------</td>
<td>---------</td>
<td>------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-383</td>
<td>Performance jobids are not indexed</td>
<td>Tom Davies</td>
<td>Fixed</td>
<td>Nov 15, 2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>[Atlassian]</td>
<td></td>
<td>Nov 17, 2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-383</td>
<td>Links in RSS feed do not use absolute URLs</td>
<td>Seb Ruiz</td>
<td>Closed</td>
<td>Nov 15, 2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>[Atlassian]</td>
<td></td>
<td>Nov 17, 2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-382</td>
<td>Jetty log messages are not reported anywhere</td>
<td>Tom Davies</td>
<td>Fixed</td>
<td>Nov 11, 2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>[Atlassian]</td>
<td></td>
<td>Nov 17, 2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-382</td>
<td>mime type mapping for file names rather than suffixes removes first character of candidate file name before matching with key filename</td>
<td>Tom Davies</td>
<td>Closed</td>
<td>Nov 09, 2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>[Atlassian]</td>
<td></td>
<td>Nov 17, 2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-317</td>
<td>When navigating forward in time in activity stream, items are shown earliest to latest</td>
<td>Michael Studman</td>
<td>Open</td>
<td>Sep 22, 2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>[Atlassian]</td>
<td></td>
<td>Feb 01, 2012</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ID</td>
<td>Title</td>
<td>Description</td>
<td>Reporter</td>
<td>Assignee</td>
<td>Resolution</td>
<td>Creator Date</td>
<td>Resolved Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-------------------</td>
<td>-----------------</td>
<td>------------</td>
<td>--------------</td>
<td>---------------</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CRUC-5828  Side by side diffs displaying 3 columns instead of 2

CRUC-5784  Selecting a folder in File browser in IE8 causes content-view tabs to disappear

CRUC-5751  Double spinners in Branch selector

CRUC-5326  Add revision popup in review vanishes when not hovered over

Authenticate to retrieve your issues

17 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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Create</th>
<th>Update</th>
</tr>
</thead>
</table>
Scala doesn't recognize symbol literals.

FE-382
3
If the total length of the branch names selected for the commit graph is too long, the spinner never disappears.

Unassigned

Tom Davies

[Atlassian]

Closed

Fixed

Nov 09, 2011

Nov 10, 2011

FE-381
2
When synchronizing users with LDAP, do not deactivate users if the error is a communication problem.

Pierre-Etienne Poirot

Pierre-Etienne Poirot

[Atlassian]

[Atlassian]

Closed

Fixed

Nov 02, 2011

Nov 02, 2011

FE-380
9
Upgrading instances using Oracle fail when upgrade_75.sql is run.

Anna Buttfield

Renan Battaglia

[Atlassian]

[Atlassian]

Closed

Fixed

Oct 31, 2011

Nov 02, 2011

FE-379
4
Sourcing a Tag from a Tag Can

Conor MacNeill

Conor MacNeill

[Atlassian]

[Atlassian]

Closed

Fixed

Oct 24, 2011

Nov 03, 2011

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
### FE-378 7
*When synchronizing users with Crowd, do not deactivate users if the error is a communication problem*

<table>
<thead>
<tr>
<th>#</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
</table>

### FE-378 4
*Modified tags fail in the branch selector*

<table>
<thead>
<tr>
<th>#</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
</table>

### FE-378 3
*Activity Stream UI sometimes slow in git - it makes calls to git remote show.*

<table>
<thead>
<tr>
<th>#</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
</table>

### FE-376 7
*WARN messages 'Repository index does not match the repository configuration' incorrect*

<table>
<thead>
<tr>
<th>#</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>#</td>
<td>Title</td>
<td>Description</td>
<td>Created</td>
<td>Fixed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>---------</td>
<td>---------------------</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Postgres fails

CRUC-5923
Unable to add files to review using "Explore Repositories" option

Geoff Crain [Atlassian]
Piotr Stefan Stefanik [Atlassian]

CRUC-4888
Quotation marks being double escaped in latest comment text

Pierre-Etienne Poirot [Atlassian]
Tim Pettersen [Atlassian]

Authenticate to retrieve your issues

19 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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Create</th>
<th>Update</th>
</tr>
</thead>
</table>

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Repository path, includes, excludes and hidden directories should be copied to newly created forks</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ticket</td>
<td>Summary</td>
<td>Assignee</td>
<td>Status</td>
<td>Fixed</td>
<td>Created</td>
<td>Updated</td>
</tr>
<tr>
<td>---------</td>
<td>-------------------------------------------------------------------------</td>
<td>-------------------</td>
<td>--------</td>
<td>-------</td>
<td>---------</td>
<td>-----------</td>
</tr>
<tr>
<td>FE-372</td>
<td>Error when changing content of a review</td>
<td>Tom Davies</td>
<td>Fixed</td>
<td></td>
<td>Sep 15</td>
<td>Jan 23</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Federico Silva Armas</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-369</td>
<td>Web Hooks payload received with &quot;application/xml&quot; as the content type</td>
<td>Anna Buttfield</td>
<td>Fixed</td>
<td></td>
<td>Sep 07</td>
<td>Oct 24</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sten Pittet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-369</td>
<td>When pushing to a Git managed repo while another client is cloning, the client which is cloned freezes</td>
<td>Pierre-Etienne Poirot</td>
<td>Fixed</td>
<td></td>
<td>Sep 06</td>
<td>Oct 09</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pierre-Etienne Poirot</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-367</td>
<td>Provide a more friendly message to the users</td>
<td>Anna Buttfield</td>
<td>Fixed</td>
<td></td>
<td>Sep 05</td>
<td>Oct 13</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zed Yap</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-262</td>
<td>code metrics error for branches directories</td>
<td>Pierre-Etienne Poirot</td>
<td>Fixed</td>
<td></td>
<td>Jun 03</td>
<td>Oct 11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tracey Lum</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRUC-5914</td>
<td>'Allow anon users'</td>
<td>Tom Davies</td>
<td>Fixed</td>
<td></td>
<td>Sep 22</td>
<td>Oct 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Michael Studman</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
permission is broken for all but 'view review' and should be removed.

<table>
<thead>
<tr>
<th>CRUC-5913</th>
<th>Comment permissions don't work for 'all logged in users'</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>CRUC-5606</th>
<th>Very large text files produce OOME when diffing</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>CRUC-4435</th>
<th>Same file shows up twice in a review</th>
</tr>
</thead>
</table>

Authenticate to retrieve your issues

19 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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
</table>

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
### FE-374 7

<table>
<thead>
<tr>
<th>User</th>
<th>Action</th>
<th>Resolution</th>
<th>Status</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tim Pettersen</td>
<td></td>
<td></td>
<td></td>
<td>Sep 27, 2011</td>
<td>Sep 27, 2011</td>
</tr>
</tbody>
</table>

If you edit and then save a managed repository in Internet Explorer, the text "fork of null" will appear and the forks view will no longer be available.

### FE-374 2

<table>
<thead>
<tr>
<th>User</th>
<th>Action</th>
<th>Resolution</th>
<th>Status</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tom Davies</td>
<td></td>
<td></td>
<td></td>
<td>Sep 26, 2011</td>
<td>Sep 27, 2011</td>
</tr>
</tbody>
</table>

After a user has been deleted and then added again, subsequent deletions fail.

### FE-374 1

<table>
<thead>
<tr>
<th>User</th>
<th>Action</th>
<th>Resolution</th>
<th>Status</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tom Davies</td>
<td></td>
<td></td>
<td></td>
<td>Sep 23, 2011</td>
<td>Sep 27, 2011</td>
</tr>
</tbody>
</table>

Manual Auth Re-Sync button doesn't do anything.

### FE-373 8

<table>
<thead>
<tr>
<th>User</th>
<th>Action</th>
<th>Resolution</th>
<th>Status</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matthew</td>
<td></td>
<td></td>
<td></td>
<td>Sep 23, 2011</td>
<td>Jan 17, 2012</td>
</tr>
</tbody>
</table>

Log files not included in
FE-373 5
Commit events fired on Git repos when branches are added/removed
Seb Ruiz [Atlassian]  Matt Ryall [Atlassian]
Clos Fixed  Sep 22, 2011  Sep 28, 2011

FE-373 4
Error upon exceeding license limit with Crowd user management
Tom Davies [Atlassian]  Gurleen Anand [Atlassian]
Clos Fixed  Sep 22, 2011  Sep 27, 2011

FE-371 6
Hg authentication fails with special character in password
Clos Fixed  Sep 14, 2011  Jan 17, 2012

FE-316 8
Restricting FishEye content in Projects Has No Effect
Michael Studman [Atlassian]  None
Clos Fixed  Dec 06, 2010  Feb 01, 2013

CRUC-5920
ConstraintViolationException: Duplicate entry 'xyz' for key 'cru_user_name' after
Michael Heemskerk [Atlassian]  Michael Heemskerk [Atlassian]
Clos Fixed  Sep 26, 2011  Sep 28, 2011
From 2.7.2 to 2.7.3

20 September 2011

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
</table>

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reportee</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Create</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FE-3718</td>
<td>Eclipse Git integration (egit) fails to clone from manager</td>
<td>Unassigned</td>
<td>Tim Pettersen [Atlassian]</td>
<td>▲</td>
<td>Closed</td>
<td>Fixed</td>
<td>Sep 15, 2011</td>
<td>Sep 19, 2011</td>
</tr>
</tbody>
</table>

From 2.7.1 to 2.7.2

19 September 2011

This is a bug fix release. The complete list of issues is below.
<table>
<thead>
<tr>
<th>#</th>
<th>Key</th>
<th>Title</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Resolution</th>
<th>Created</th>
<th>Fixed</th>
<th>Resolution Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>FE-371</td>
<td>1</td>
<td>Some Directory links in Quick Search have double encoded URLs</td>
<td>Jason Hinch</td>
<td>Jason Hinch</td>
<td>Closed</td>
<td>Sep 12, 2011</td>
<td>Jan 17, 2012</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Fixed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-369</td>
<td>6</td>
<td>Web Hooks should be deleted when deleting a repository</td>
<td>Tom Davies</td>
<td>Seb Ruiz</td>
<td>Closed</td>
<td>Sep 07, 2011</td>
<td>Sep 14, 2011</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Fixed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Pagination number at bottom of Repositories screen overlap with system info footer</td>
<td>Jonathon Poh</td>
<td>Rene Verschoor</td>
<td>Closed</td>
<td>Sep 06, 2011</td>
<td>Sep 15, 2011</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Fixed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FE-364</td>
<td>7</td>
<td>Google collections and Guava both bundled, package exported without version</td>
<td>Conor MacNeill</td>
<td>Richard Wallace</td>
<td>Closed</td>
<td>Aug 15, 2011</td>
<td>Sep 14, 2011</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Fixed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRUC-5902</td>
<td></td>
<td>change set discussion autosave fails</td>
<td>Tom Davies</td>
<td>Joe Xie</td>
<td>Closed</td>
<td>Sep 13, 2011</td>
<td>Sep 14, 2011</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Fixed</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
with error
dialog when
no comme
nt is
entered

CRUC-5888  Closing the
Send Remind
er dialog via Esc doesn't reset it.
Adam Ahmed [Atlassi
an]  Adam Ahmed [Atlassi
an]  Clos
ed  Fixed  Sep 06, 2011  Sep 13,
2011

CRUC-5886  If the
current user is a review' s author, then switche
to a reviewere, they show up in the manual
Send Remind
er dialog.
Adam Ahmed [Atlassi
an]  Adam Ahmed [Atlassi
an]  Clos
ed  Fixed  Sep 06, 2011  Sep 13,
2011

CRUC-5885  Review remind
er notes do not render new lines in email
Michael Studma
n [Atlassi
an]  Seb Ruiz [Atlassi
an]  Clos
ed  Fixed  Sep 06, 2011  Sep 13,
2011

CRUC-3298  Should be abe
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

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
## From 2.7.0 to 2.7.1

### 9 September 2011

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Create</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FE-370</td>
<td>Commit HookModuleDescription#enable can fail if Active Objects Configuration for Commit Hooks Plugin is not available yet</td>
<td>Jason Hinch [Atlassian]</td>
<td>Jason Hinch [Atlassian]</td>
<td>✧</td>
<td>🟢 Closed</td>
<td>Fixed</td>
<td>Sep 08, 2011</td>
<td>Sep 12, 2011</td>
</tr>
</tbody>
</table>
Crucible 2.7 Upgrade Guide

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

On this page:
- Upgrade Notes
  - Crucible 2.7
  - Upgrade Procedure
  - Checking for Known Issues and Troubleshooting the Crucible Upgrade

Upgrade Notes

Crucible 2.7

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

<table>
<thead>
<tr>
<th>Crucible Plugin</th>
<th>Confluence Crucible Plugin</th>
</tr>
</thead>
</table>

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

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

Upgrade Procedure

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

Checking for Known Issues and Troubleshooting the Crucible Upgrade

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

- **Check for known issues.** Sometimes Atlassian finds out about a problem with the latest version of Crucible after the software is released. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the Crucible 2.7 Known Issues in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.

- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to troubleshooting upgrades in the Crucible Knowledge Base.

- If you encounter a problem during the upgrade and cannot solve it, please create a support ticket and one of our support engineers will help you.

**RELATED TOPICS**

- Crucible 2.7 Release Notes
- Crucible 2.6 Release Notes

**6 June 2011**

With great pleasure, Atlassian presents Crucible 2.6 with SQL Server support, improved Quick Search, much better handling of reviews for Subversion merge commits and HTML emails.

**Highlights of this Release:**

- New Quick Search
- HTML Emails for Reviews
- Dashboard and Navigation Improvements
- SQL Server Support
- Oracle Support
- Review Creation without Metadata Changes
- Improved Patch Anchoring
- And Even More Improvements

**Responding to your Feedback:**

🌟 Over 269 votes satisfied

![Download latest version](download.png)

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

**Highlights of Crucible 2.6**

1

**New Quick Search**

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

2

HTML Emails for Reviews

A 20% time project has resulted in email notifications getting a dramatic facelift. Gone are the dreary plain text emails, replaced by much better-looking HTML emails. You'll see the new emails in action for review notifications.
FECRU-992: Fixing graph deep linking. Now validates server side allowing the goto changeset id...

CR-FE-5614

There are 3 new comments in the following 3 threads:

**visualisation.jsp**

Seb Ruiz
Delete the duplicate definition.

Jason Hinch
Joe has been working twice as hard

Joe
O_O what happened there?

**project-visualiser.js**

Seb Ruiz
What does this change do?

Jason Hinch
It removes the query string and hash from the URL

Jason Hinch
This is required for the page pop to occur. If you remove a branch then you don’t want it to be automatically added back in due to a query string param

**ViewRepositoryGraphAction.java**

Seb Ruiz
Why not get the changeset off the changesetholder object?

Jason Hinch
The changeset holder is null at this point as its only not null when we are execute the action for the more info dialog

**Participants**

Jason Hinch Author
Adam Ahmed Reviewer
Seb Ruiz Reviewer (complete)
Joe Reviewer

**Objectives**

4521e387987860a2f040753d7f5c8baa1156587e- FECRU-992: Fixing graph deep linking. Now validates server side allowing the goto changeset id functionality to work when the csid or tag is not on a branch in the branch set
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.

SQL Server Support

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

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.

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...

Improved Patch Anchoring

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

More...

And Even More Improvements

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

Release Notices

- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straightforward. We strongly recommend that you back up Crucible before upgrading. Please refer to the Crucible 2.6 Upgrade Guide for further essential information about your upgrade.

- **Known Issues.** Please check the important technical advisories on the front page of the Knowledge Base for information about any known issues for this release.

Crucible 2.6 Changelog

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

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

On this page:

- From 2.6.6 to 2.6.7
- 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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
</table>

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
1 issue

**From 2.6.5 to 2.6.6**

**2 September 2011**

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-5853</td>
<td>Crucible ToDo gadget links don't work due to extra slashes in the url</td>
<td>Joe Xie [atlassian]</td>
<td>Jay Barra</td>
<td>↑</td>
<td>Closed</td>
<td>Fixed</td>
<td>Aug 01, 2011</td>
<td>Sep 08, 2011</td>
</tr>
</tbody>
</table>
4 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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolved</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No issues found</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolved</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No issues found</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

From 2.6.2 to 2.6.3

9 August 2011

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolved</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>CRUC-4683</td>
<td>Create a plugin point for external activity item providers</td>
<td>John Kodumal</td>
<td>John Kodumal</td>
<td>↓</td>
<td></td>
<td>Closed</td>
<td>Oct 26, 2010</td>
<td>Aug 09, 2011</td>
</tr>
<tr>
<td>CRUC-5832</td>
<td>Crucible</td>
<td>Source names are not being trimmed, and review creation fails.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>----------</td>
<td>---------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nick Pellow [Atlassian]</td>
<td>Nick Pellow [Atlassian]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
|           | CRUC-5829 | uploadi
|           | NG a patch can take a very long time |
|           | Matthe
|           | w Watson [Atlassian] | Geoff Crain [Atlassian] |
|           | CRUC-5830 | Admin
|           | allows the creation of permission schemes with blank names |
|           | Pierre-Etienne Poirot [Atlassian] | Pierre-Etienne Poirot [Atlassian] |
|           | CRUC-5827 | 10 minute page load time for pre-commit diffs of large (1000L OC) files |
|           | Geoff Crain [Atlassian] | Nick Pellow [Atlassian] |

5 issues

**From 2.6.1 to 2.6.2**

**20 July 2011**

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
</table>

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
3 issues

From 2.6.0 to 2.6.1

22 June 2011

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt=" " /></td>
<td>CRUC-5783</td>
<td>Applink to non-JIRA servers confuse the Crucible link review to issue process.</td>
<td>Anna Buttfeld [Atlassian]</td>
<td>Conor MacNeill [Atlassian]</td>
<td>↓</td>
<td><img src="image2.png" alt=" " /> Closed</td>
<td>Fixed</td>
<td>Jun 01, 2011</td>
<td>Jun 24, 2011</td>
</tr>
<tr>
<td><img src="image1.png" alt=" " /></td>
<td>CRUC-5782</td>
<td>Exception while looking up JIRA issue.</td>
<td>Tom Davies [Atlassian]</td>
<td>Tom Davies [Atlassian]</td>
<td>↑</td>
<td><img src="image2.png" alt=" " /> Closed</td>
<td>Fixed</td>
<td>Jun 02, 2011</td>
<td>Aug 29, 2011</td>
</tr>
<tr>
<td>CRUC-5780</td>
<td>NPE when trying to link review to JIRA issue causes failure of review creation</td>
<td>Tom Davies [Atlassian]</td>
<td>Tom Davies [Atlassian]</td>
<td>↑</td>
<td>Clos</td>
<td>Fixed</td>
<td>Jun 01, 2011</td>
<td>Jun 09, 2011</td>
<td></td>
</tr>
<tr>
<td>CRUC-5778</td>
<td>Moving a review between projects fails when the default moderator of the destination project is the same as the current moderator</td>
<td>Tom Davies [Atlassian]</td>
<td>Tom Davies [Atlassian]</td>
<td>↑</td>
<td>Clos</td>
<td>Fixed</td>
<td>May 27, 2011</td>
<td>Jun 20, 2011</td>
<td></td>
</tr>
<tr>
<td>CRUC-5777</td>
<td>Recording which reviews contain which revisions stops a repository scanning</td>
<td>Geoff Crain [Atlassian]</td>
<td>Tom Davies [Atlassian]</td>
<td>↑</td>
<td>Clos</td>
<td>Fixed</td>
<td>May 27, 2011</td>
<td>Jun 15, 2011</td>
<td></td>
</tr>
</tbody>
</table>
Crucible 2.6 Upgrade Guide

Below are some important notes on upgrading to Crucible 2.6. For details of the new features and improvements in this release, please read the Crucible 2.6 Release Notes.

On this page:

- Upgrade Notes
  - Crucible 2.6
  - Upgrade Procedure
  - Checking for Known Issues and Troubleshooting the Crucible Upgrade

Upgrade Notes

Crucible 2.6

- **Internet Explorer 7 and Java Platform 5 (JDK/JRE 1.5) no longer supported** — As per the End of Support Announcements for Crucible (published previously), we are no longer supporting Internet Explorer 7 and Java Platform 5 (JDK/JRE 1.5) in this release. See Supported platforms page for the full list of supported platforms for Crucible.

- **Disabling review creation without metadata** — Crucible 2.6 introduces review creation without metadata. This functionality is enabled by default. If you want to disable this functionality, you can do so by starting up Crucible with the following system property:
  
  `-Dcrucible.detect.metadata.revision.changes=false`

  For further details, read this FAQ: How do I force reviews to include SVN property changes?

Upgrade Procedure

⚠️ **Before you begin**

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

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

Checking for Known Issues and Troubleshooting the Crucible Upgrade

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

- **Check for known issues.** Sometimes we find out about a problem with the latest version of Crucible after we have released the software. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the Crucible 2.6 Known Issues in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- Did you encounter a problem during the Crucible upgrade? Please refer to the guide to troubleshooting upgrades in the Crucible Knowledge Base.

- If you encounter a problem during the upgrade and cannot solve it, please create a support ticket and one of our support engineers will help you.

related topics

Crucible 2.6 Release Notes

Crucible 2.5 Release Notes

8 February 2011

With great pleasure, Atlassian presents Crucible 2.5, now with support for Oracle and redesigned Activity Stream.

Highlights of this Release:
- Oracle Support (beta)
- Redesigned Activity Stream
- Improved Header
- Comment Notification Batching
- And Even More Improvements

Responding to your Feedback:
⭐ Over 150 votes satisfied

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

Highlights of Crucible 2.5

1

Oracle Support (beta)

We have been working very hard on adding support for the Oracle DBMS for Crucible 2.5 as this has been a very popular feature request with more than 115 votes.

We have been using Crucible with Oracle over the past month ourselves, so we believe we are almost there. We would love for you to give Crucible a try on Oracle DBMS and let us know if you run into any problems by creating an issue.

2

Redesigned Activity Stream

We have spent a considerable amount of time improving the FishEye activity stream:

- Cleaner visual design
- Larger avatars
- Improved scanability
- De-cluttering of UI elements, showing actions on hover
- Space-saving condensed mode so you can see more changesets on the same page
Improved Header

Crucible 2.5 tracks locations that you have recently visited, and provides quick and easy access to navigate to these resources. The five most recently viewed projects, reviews, users and repositories (if FishEye is installed) are available from the header drop down links as shown:
Comment Notification Batching

Email notifications from Crucible can be frequent, particularly on reviews with many participants and lots of comments. We won’t say spam, but it can certainly feel “chatty!” Crucible 2.5 remedies this problem with improved batching of emails. All comments are grouped together and sent in a user-specified interval. They’re easier to read and will keep your inbox happy. It works for draft comments and edited comments, too, so fixing a typo will no longer send out multiple notifications!

Example:

There are 2 new comments in the following thread:
AuthenticationStyle.java -
http://localhost:6060/crucible/cru/CR-FE-4223/#c36358
Geoff Crain on 02 Feb 2011, 12:01
   Is this really how this is supposed to work? You should fix this.
   *****  New
************************************************************************
***************************
Seb Ruiz on 02 Feb 2011, 13:31
   Geoff is right. But you'll 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:
Visit our issue tracker to see the full list of improvements and bug fixes in FishEye and Crucible for this release.

Release Notices

Crucible 2.5 Changelog

This page contains information about the Crucible 2.5 minor releases. FishEye license holders should also check the FishEye 2.5 Changelog.

⚠️ Please read the Crucible 2.5 Upgrade Guide before upgrading to any of the minor releases below.

On this page:
- From 2.5.6 to 2.5.7
- 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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Created</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRUC-</td>
<td>5811</td>
<td>Permission</td>
<td>Vitaly Osipov</td>
<td>Andrew Lui</td>
<td></td>
<td></td>
<td>Fixed</td>
<td>Jun 20, 2011</td>
<td>Dec 01, 2011</td>
</tr>
</tbody>
</table>

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
checkin bug in Crucible Review Tooltips

CRUC-5782 Exception while looking up JIRA issue ends request in error


CRUC-5780 NPE when trying to link review to JIRA issue causes failure of review creation


CRUC-5778 Moving a review between projects fails when the default moderator of the destination project is the same as the current moderator


CRUC-5773 List of JIRA Projects in linked

server is cached forever

<table>
<thead>
<tr>
<th>CRUC-5707</th>
<th>Geoff Crain</th>
<th>Geoff Crain</th>
<th>→</th>
<th>Clos</th>
<th>Fixed</th>
<th>April 01, 2011</th>
<th>June 01, 2011</th>
</tr>
</thead>
</table>

6 issues

**From 2.5.5 to 2.5.6**

**24 May 2011**

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Create Date</th>
<th>Update Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-5540</td>
<td>Fix patch anchoring when the patch generated by IDE Connectors is pasted into the Crucible UI</td>
<td>Geoff Crain [Atlassian]</td>
<td>Anton Mazkovic [Atlassian]</td>
<td>↓</td>
<td>Clos</td>
<td>Fixed</td>
<td>January 31, 2011</td>
<td>May 18, 2011</td>
</tr>
</tbody>
</table>

3 issues
From 2.5.4 to 2.5.5

11 May 2011

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Create</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-5742</td>
<td>Pre-commit patch diff is mixing files together</td>
<td>Geoff Crain</td>
<td>Felipe Kraemer</td>
<td>↑</td>
<td></td>
<td>Clos ed</td>
<td>May 02, 2011</td>
<td>May 09, 2011</td>
</tr>
<tr>
<td></td>
<td>CRUC-5727</td>
<td></td>
<td>Geoff Ming</td>
<td>Fixed</td>
<td></td>
<td>Jul 15, 2011</td>
<td>May</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
7 issues

From 2.5.3 to 2.5.4

11 April 2011

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Create</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CRUC-5715</td>
<td>After migrating to a different database, session factories injected into spring beans still point to the old database.</td>
<td>Unassigned</td>
<td>Tom Davies</td>
<td></td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Apr 06, 2011</td>
<td>Apr 07, 2011</td>
</tr>
<tr>
<td></td>
<td>CRUC-5710</td>
<td>Web Resources are loaded twice on pages rendered with some decorators</td>
<td>Jason Hinch</td>
<td>Jason Hinch</td>
<td></td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Apr 05, 2011</td>
<td>Apr 07, 2011</td>
</tr>
<tr>
<td></td>
<td>CRUC-5673</td>
<td>Time field</td>
<td>Adam Ahmed</td>
<td>Felipe Kraem</td>
<td></td>
<td>Clos ed</td>
<td>Fixed</td>
<td>Mar 11, 2011</td>
<td>Apr 01, 2011</td>
</tr>
</tbody>
</table>
From 2.5.2 to 2.5.3

28 March 2011

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

| CRUC-5644 | RSS Feed option under Tools menu is not displaying correctly on IE7 | Craig Sharkie [Atlassian] | Felipe Kraemer [Atlassian] | Created | Fixed | Feb 24, 2011 | Apr 08, 2011 |

7 issues
<table>
<thead>
<tr>
<th>Issue Number</th>
<th>Type</th>
<th>Description</th>
<th>Assigned To</th>
<th>Resolution</th>
<th>Closed Date</th>
<th>Fixed Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRUC-5662</td>
<td>Branch Order in branch selector drop down should be sorted better</td>
<td>Seb Ruiz [Atlassian]</td>
<td>Brydie McCoy [Atlassian]</td>
<td>Closed</td>
<td>Mar 08, 2011</td>
<td>Mar 21, 2011</td>
</tr>
</tbody>
</table>
## 7 issues

**From 2.5.1 to 2.5.2**

### 8 March 2011

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priorit y</th>
<th>Status</th>
<th>Resolution</th>
<th>Create d</th>
<th>Update d</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt=" " /></td>
<td>CRUC-5138</td>
<td>Add an offline command to optimize the indexes</td>
<td>Pierre-Etienne Poirot [Atlassian]</td>
<td>Pierre-Etienne Poirot [Atlassian]</td>
<td>↓</td>
<td>⚒ Clos ed</td>
<td>Fixed</td>
<td>Dec 09, 2010</td>
<td>Sep 15, 2011</td>
</tr>
<tr>
<td><img src="image" alt=" " /></td>
<td>CRUC-4818</td>
<td>Need to prevent UAL (and dependent) plugins from being disabled.</td>
<td>Tom Davies [Atlassian]</td>
<td>Tim Petters en [Atlassian]</td>
<td>↑</td>
<td>⚒ Clos ed</td>
<td>Fixed</td>
<td>Nov 05, 2010</td>
<td>Feb 14, 2011</td>
</tr>
<tr>
<td>CRUC-5652</td>
<td>After 2.5 upgrade, indexing stops with error &quot;Changeset comments may not be null or empty&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CRUC-5645</th>
<th>Files that are added/moved should take up the whole width of the pane, even if side by side view is selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geoff Crain [Atlassian]</td>
<td>Joe Xie [Atlassian]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CRUC-5643</th>
<th>No vertical scroll bar visible when adding change set to Crucible review under IE 7.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Craig Sharkie [Atlassian]</td>
<td>Felipe Kraemer [Atlassian]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CRUC-5641</th>
<th>NullPointerException in REST search reviews for terms (because</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anna Buttfeld [Atlassian]</td>
<td>Pierre-Etienne Poiret [Atlassian]</td>
</tr>
</tbody>
</table>
CRUC-5636: JavaScript syntax highlighter does not highlight undefined and delete keywords

CRUC-5635: Defect classification screen shows id instead of label

CRUC-5626: Git patch parsing throws a NPE

CRUC-5622: Getting the list of projects via the api (either rest-service/projects-v1 or projectService.getAllProjects) fails with a LazyInitializationException

CRUC-5616: Empty responses from p4

Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.
| CRUC-4984 | "that is unreviewed" filter is broken | Adam Ahmed [Atlassian] | Agnes Ro [Atlassian] | | | | Nov 18, 2010 | Feb 16, 2011 |
| CRUC-4787 | Patch reviews from mercurial diffs don't anchor to their repository | Geoff Crain [Atlassian] | Nicolas Venegas | | | | Nov 03, 2010 | Nov 15, 2011 |
Showing 20 out of 21 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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Reporter</th>
<th>Priority</th>
<th>Status</th>
<th>Resolution</th>
<th>Create</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRUC-5597</td>
<td>The &quot;Tabs&quot; on the statistics panel of the &quot;Project View&quot; do not work in JIRA 4.2.3 and JIRA 4.3</td>
<td>Joe Xie [atlassian]</td>
<td>Brenden Bain [Atlassian]</td>
<td>Fixed</td>
<td>Feb 06, 2011</td>
<td>Feb 14, 2011</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>------------------------------------------------------------------------------------------------</td>
<td>-----------------</td>
<td>--------------------------</td>
<td>-------</td>
<td>--------------</td>
<td>--------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRUC-5594</td>
<td>Adding an AppLink to a &quot;standalone Crucible&quot; creates a FishEye configuration that is unuseable.</td>
<td>Luis Miranda [Atlassian]</td>
<td>Brenden Bain [Atlassian]</td>
<td>Fixed</td>
<td>Feb 04, 2011</td>
<td>Feb 14, 2011</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRUC-5581</td>
<td>UAL website link for fisheye configuration links to a page that shows all possible options, even if those options are global and will not apply to the</td>
<td>Luis Miranda [Atlassian]</td>
<td>Joe Xie [atlassian]</td>
<td>Fixed</td>
<td>Feb 03, 2011</td>
<td>Feb 14, 2011</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRUC-5183</td>
<td>Extend oauth service to REST resources (such as gadgets)</td>
<td>Joe Xie [atlassian]</td>
<td>Joe Xie [atlassian]</td>
<td>Fixed</td>
<td>Dec 14, 2010</td>
<td>Feb 14, 2011</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
17 issues

Crucible 2.5 Upgrade Guide

Below are some important notes on upgrading to **Crucible 2.5**. For details of the new features and improvements in this release, please read the [Crucible 2.5 Release Notes](#).

**On this page:**

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

**Upgrade Notes**

- **Crucible 2.5:**
  - This is only relevant when Crucible is run in conjunction with FishEye.
    This release will trigger an automatic upgrade of the metadata index the first time Crucible is started. Crucible is still usable while this task runs in the background, however the FishEye search functionality will not contain all results. A warning will appear in the UI until the upgrade has complete. Please also see [How do I Avoid Long Reindex Times When I Upgrade?](#)

**Upgrade Procedure**

**Before you begin**
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](https://confluence.atlassian.com/kb/crucible-2-5-known-issues-691906772.html) 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](https://confluence.atlassian.com/kb/crucible-support-ticket-691906773.html) and one of our support engineers will help you.

## RELATED TOPICS

**Crucible 2.5 Release Notes**

### Crucible FAQ

<table>
<thead>
<tr>
<th><strong>Crucible FAQ</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Answers to frequently asked questions about configuring and using Crucible.</td>
</tr>
<tr>
<td>• <strong>Crucible Resources</strong></td>
</tr>
<tr>
<td>• <strong>General FAQs</strong></td>
</tr>
<tr>
<td>• Can I deploy Crucible or FishEye as a WAR?</td>
</tr>
<tr>
<td>• Does Crucible support SSL (HTTPS)?</td>
</tr>
<tr>
<td>• How do I force reviews to include SVN property changes?</td>
</tr>
<tr>
<td>• How to Automate Daily Crucible Backups</td>
</tr>
<tr>
<td>• <strong>Licensing FAQ</strong></td>
</tr>
<tr>
<td>• What happens if I decide to stop using FishEye with Crucible</td>
</tr>
<tr>
<td>• Do I need a FishEye licence to run Crucible?</td>
</tr>
<tr>
<td>• Advantages of Native Repository Access over lightSCM plugins</td>
</tr>
<tr>
<td>• Updating your Crucible license</td>
</tr>
<tr>
<td>• <strong>Support Policies</strong></td>
</tr>
<tr>
<td>• Bug Fixing Policy</td>
</tr>
<tr>
<td>• How to Report a Security Issue</td>
</tr>
<tr>
<td>• New Features Policy</td>
</tr>
<tr>
<td>• Patch Policy</td>
</tr>
<tr>
<td>• Security Advisory Publishing Policy</td>
</tr>
<tr>
<td>• Security Patch Policy</td>
</tr>
<tr>
<td>• Severity Levels for Security Issues</td>
</tr>
<tr>
<td>• <strong>Troubleshooting</strong></td>
</tr>
<tr>
<td>• Crucible freezes unexpectedly</td>
</tr>
<tr>
<td>• JIRA Integration Issues</td>
</tr>
<tr>
<td>• Problems with very long comments and MySQL migration</td>
</tr>
<tr>
<td>• Contributing to the Crucible Documentation</td>
</tr>
<tr>
<td>• Crucible Documentation in Other Languages</td>
</tr>
</tbody>
</table>

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 its own?
  • Can I trial Crucible without FishEye?
  • How can I do reviews from the file system?
  • How does Crucible help enforce compliance and auditability?
  • How do I convince my team of the benefits of code review?
  • How do I do pre-commit reviews?
  • How do I raise defects in JIRA?
  • How do I review patch diffs?
  • What user permissions and review security is available?

Do you still have a question, or need help with Crucible? Please create a support request.

**Crucible Resources**

*Resources for Evaluators*

• Free Trial
• Feature Tour

*Resources for Administrators*

• Crucible Knowledge Base
• Crucible FAQ
• Guide to Installing an Atlassian Integrated Suite
• The big list of Atlassian gadgets

*Downloadable Documentation*

• Crucible documentation in PDF, HTML or XML formats

*Plugins*

• Crucible Developer Documentation
• Add-ons for Crucible

*Support*

• Atlassian Support
• Support Policies

*Forums*

• Crucible Forum
• Crucible Developers Forum

*Mailing Lists*

• Visit [http://my.atlassian.com](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**

*Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.*
Can I deploy Crucible or FishEye as a WAR?

Unfortunately FishEye and Crucible cannot be deployed as a WAR. FishEye has some special needs for performance reasons that are not easily supported on third-party containers. Whilst this is an often requested feature, there are no immediate plans to provide a WAR version of FishEye or FishEye+Crucible. However the upcoming separate edition of Crucible (i.e. without FishEye) may at some stage be available as a WAR.

Does Crucible support SSL (HTTPS)?

Crucible does not have any built-in support for running over SSL via the HTTPS protocol. However, it is possible to setup a proxy web server to forward requests to Crucible. Please see the page on Integrating with Other Web Servers.

How do I force reviews to include SVN property changes?

Subversion (SVN) allows users to store arbitrary name/value pairs associated with files and directories, called SVN properties. These properties can be used by users for storing metadata and are also used by Subversion (e.g. for storing where code is branched from)

These name/value pairs can only be changed as part of a changeset / commit in Subversion. As such, you will have changesets with purely changes to SVN properties, or changesets with a mix of textual changes and changes to SVN properties. Crucible 2.6 introduced review creation without metadata to prevent SVN properties from being included in reviews.

This functionality is enabled by default, and affects the following functionality:

- Creating a review — The "Create Review" link is disabled in the activity stream, dashboard and changeset page for any changeset where all the file revisions only differ by SVN properties.
- Adding content to a review — SVN property-only changesets cannot be added to the review from the 'Add Content' dialog. Changesets with a mix of SVN property changes and textual changes can be added to the review, however only the file revisions with textual changes are added. File revisions with both textual changes and SVN property changes are always added.
  (Note, explicitly adding a particular file revision to a review is still permitted, regardless of whether it is a textual change or metadata-only change.)

The prime motivation behind the metadata checking is to prevent the creation of reviews with a large number of files which have no effective content changes. Sometimes this sort of problem is seen when there is some wholesale SVN property change - e.g. setting the line endings on all files (svn:eol-style). In that respect, this is a performance setting as it avoids the creation of large reviews. The properties themselves are still stored and managed in FishEye. There is no major performance impact on including properties in reviews.

Disabling this functionality can be done by starting up Crucible with the following system property:
-Dcrucible.detect.metadata.revision.changes=false

How to Automate Daily Crucible Backups

Configuring Crucible backups is easy. To set daily Crucible backups, open the administration page, click the 'Backup' link under 'System' on the left navigation bar, and simply follow the instructions set out on the Backing up and restoring Crucible data page.

Licensing FAQ
Crucible Licensing FAQ

- **What happens if I decide to stop using FishEye with Crucible** — Crucible can be run as an application alone, without FishEye. However, if you decide to stop using FishEye with Crucible, you will lose certain functionality and will need to make configuration changes.
- **Do I need a FishEye licence to run Crucible?** — FishEye and Crucible are separate products. They can be run separately, and they can also be run together.
- **Advantages of Native Repository Access over lightSCM plugins**
- **Updating your Crucible license**

What happens if I decide to stop using FishEye with Crucible

Crucible can be run as an application alone, without FishEye. However, if you decide to stop using FishEye with Crucible, you will lose certain functionality and will need to make configuration changes.

On this page:

- How do I run Crucible without FishEye?
- How is Crucible without FishEye different from using Crucible with FishEye?
  - Conducting Reviews
  - Viewing Repositories/Files
  - Charts
- Can I still use lightSCM plugins with Crucible?

How do I run Crucible without FishEye?

- **Have a valid Crucible license but not a FishEye license**
  
  To run Crucible without FishEye you need to have a valid Crucible license but not a FishEye license or if you want to disable FishEye enter Disabed in the license field. Crucible standalone will actually use a "light" mode of FishEye that comes pre-bundled and does not need to be installed separately. For more information on Crucible with light FishEye, see How is Crucible without FishEye different from using Crucible with FishEye? below.

- **No need to reconnect your repositories**
  
  Any repositories that you have currently defined in FishEye will not be visible in Crucible after removing FishEye (no more Source tab). The repositories however, will continue to update as usual without any intervention. You can add additional repositories as described in the FishEye documentation. Note, all repositories supported in FishEye are supported in light FishEye.
  
  Legacy "lightSCM" plugins, like the Crucible Subversion SCM plugin, will still work. However, the functionality will be limited compared to using Crucible with light FishEye. See the Can I still use lightSCM plugins with Crucible? section below for more information.

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

How is Crucible without FishEye different from using Crucible with FishEye?

The following changes in functionality will occur if you use Crucible without FishEye (i.e. use Crucible with "light" FishEye).

**Conducting Reviews**

- When using Iterative reviews in Crucible, you will not be prompted when a new version of a file is available.

**Viewing Repositories/Files**

- Files and changesets displayed in activity streams (e.g. the dashboard activity stream) will not render as links to the relevant files/changesets.
- You will not be able to see your content roots and repositories associated with projects.
• You will no longer be able to see repository lists and browse repositories using the ‘Source’ tab.

Charts
• You will not be able to view charts or code metrics.

Can I still use lightSCM plugins with Crucible?

Legacy "lightSCM" plugins, like the Crucible Subversion SCM plugin, will still work with Crucible. However, we recommend that you use the "light" FishEye implementation that is bundled with Crucible, as it supersedes the lightSCM plugins.

For more information, please read this FAQ: Advantages of Native Repository Access over lightSCM plugins.

Do I need a FishEye licence to run Crucible?

FishEye and Crucible are separate products. They can be run separately, and they can also be run together.

We recommend that you run Crucible together with FishEye. If you choose to run Crucible alone without FishEye, you will have access to your repositories via the "light" FishEye implementation bundled with Crucible. However, a number of FishEye’s advanced features will not be available to you, including pre-caching repository content (for improved performance), the ability to search and browse through repositories and FishEye’s activity graphs.

For more information, please read the following FAQ: What happens if I decide to stop using FishEye with Crucible

Advantages of Native Repository Access over lightSCM plugins

Prior to Crucible 2.4, running Crucible without FishEye required the use of "lightSCM" plugins (like the Crucible Subversion SCM plugin). From version 2.4, Crucible provides native repository access which supersedes Crucible's bundled lightSCM plugins. Third-party lightSCM plugins are unaffected and will continue to work with Crucible. The bundled plugins will still be available, so your existing configurations will also continue to work unchanged.

If you are currently using any of the bundled lightSCM plugins, we recommend that you migrate to using native repository access for the following reasons:

• Atlassian's lightSCM plugins (not lightSCM itself) are being deprecated, i.e. we will not update any of the bundled lightSCM plugins after the 2.4 release.
• It is easier for us to support and maintain a single implementation of our SCM interfaces, rather than support the standard FishEye access and the lightSCM implementations.
• Native repository access provides full support for SCMs for which there are no current lightSCM plugin implementations, including CVS and Mercurial.
• Native repository access provides additional functionality that is not available in the lightSCM plugins including:
  • Viewable commits in the activity streams (e.g. the dashboard activity stream).
  • Repositories administration via the administration console.
  • Easier review creation due to the ability to search and browse the repository using the full power of FishEye. For example, browsing for a file to add to a new review (see Adding content to the review).
• Improved performance of native repository access over the lightSCM plugins. The lightSCM plugins retrieve data on demand from the underlying repository, rather than using caches and indexes like FishEye and native repository access. Hence, Crucible with native repository access, whilst requiring an initial indexing phase, will be faster than Crucible with lightSCM plugins during day-to-day operations.
• Native repository access allows for migration to a full FishEye license in future, if desired. Your repositories can simply be re-indexed for full FishEye functionality and existing reviews will then be available on the full repository.

To change over from lightSCM plugins to native repository access:

1. Disable your lightSCM plugins via the Crucible Administration Console (‘Plugins’ link under the ‘Systems Settings’ section in the left menu).
   Do not disable the SCM plugins for connecting to a Confluence instance or a file system. Native repository access does not include functionality to connect these (nor does FishEye alone), hence you will still need to use plugins.
2. Add native repositories for any repositories that are currently connected via lightSCM plugins. See the FishEye documentation.

3. If you are using Subversion or Perforce, we recommend that you set a "start" revision for the changeover, unless you need to review old code. This will eliminate the need for native repository support to index old repository activity, getting you up and running quickly.

**Updating your Crucible license**

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

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

**Related pages:**
- Crucible and FishEye
- What happens if I decide to stop using FishEye with Crucible

**To update your Crucible license key:**

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

**Support**

Information

- New licenses can be acquired from my.atlassian.com.
- Your Server ID is BMRI-3AS3-HMMD-PGXX

Licenses

- **FishEye License**: Evaluation
- **Crucible License**: AAAAAI6yq0IDQOp emptkElWwzAMxq+Flx6ZPva7tzw2geC5eELRSArncmgh15Ujo62G1AI3+E92v3Y1dBBsOGjTO33k8PPI77RJvDRAwntjJNeMzZnO396Kp64JAG4+0Y7zGp3C3jwNshH0MCotF0nul8acplKil
  gh\hTahh42pUlAfv\Alj\A3\j\OvGy6J\R+\AvtaP1bO\DjJ+77\ReA\og2Kd4Z4vAO2C5D27g1\4b\s\Ao\cy3G\Y\S+k1\L\4Y\x\L\j\3\o\J\p\J\1\3\Z\a\Te\k\k\Z\c\G\K\l\z\n+R\V6x\j\3\+\D\7\r\b\b\3\D\3\d\3\m\d\P\H\5\S\A\d\A\d\R\y\k\b\b\D\2\2\j\5\p\x\L\p\5\x\l\p\8\e\a\C\Q\A\h\Q\r\s\W\V\A\j\c\v\T\P\x\G\B
  14x
  g5FWVNa7e5sdD-EX32ce

**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

*Created by Atlassian in 2013. Licensed under a Creative Commons Attribution 2.5 Australia License.*
• Security Patch Policy
• Severity Levels for Security Issues

To request support from Atlassian, please raise a support issue in our online support system. To do this, visit support.atlassian.com, log in (creating an account if need be) and create an issue under Crucible. Our friendly support engineers will get right back to you with an answer.

Bug Fixing Policy

Summary

• Atlassian Support will help with workarounds and bug reporting.
• Critical bugs will generally be fixed in the next maintenance release.
• Non critical bugs will be scheduled according to a variety of considerations.

Raising a Bug Report

Atlassian Support is eager and happy to help verify bugs — we take pride in it! Please open a support request in our support system providing as much information as possible about how to replicate the problem you are experiencing. We will replicate the bug to verify, then lodge the report for you. We'll also try to construct workarounds if they're possible.

Customers and plugin developers are also welcome to open bug reports on our issue tracking systems directly. Use http://jira.atlassian.com for the stand-alone products and http://studio.atlassian.com for JIRA Studio and Atlassian OnDemand.

When raising a new bug, you should rate the priority of a bug according to our JIRA usage guidelines. Customers should watch a filed bug in order to receive e-mail notification when a "Fix Version" is scheduled for release.

How Atlassian Approaches Bug Fixing

Maintenance (bug fix) releases come out more frequently than major releases and attempt to target the most critical bugs affecting our customers. The notation for a maintenance release is the final number in the version (ie the 1 in 3.0.1).

If a bug is critical (production application down or major malfunction causing business revenue loss or high numbers of staff unable to perform their normal functions) then it will be fixed in the next maintenance release provided that:

• The fix is technically feasible (i.e. it doesn't require a major architectural change).
• It does not impact the quality or integrity of a product.

For non-critical bugs, the developer assigned to fixing bugs prioritises the non-critical bug according to these factors:

• How many of our supported configurations are affected by the problem.
• Whether there is an effective workaround or patch.
• How difficult the issue is to fix.
• Whether many bugs in one area can be fixed at one time.

The developers responsible for bug fixing also monitor comments on existing bugs and new bugs submitted in JIRA, so you can provide feedback in this way. We give high priority consideration to security issues.

When considering the priority of a non-critical bug we try to determine a 'value' score for a bug which takes into account the severity of the bug from the customer's perspective, how prevalent the bug is and whether roadmap features may render the bug obsolete. We combine this with a complexity score (i.e. how difficult the bug is). These two dimensions are used when developers self serve from the bug pile.

Further reading

See Atlassian Support Offerings for more support-related information.
How to Report a Security Issue

Finding and Reporting a Security 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 a cross-site scripting (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.
- For a cross-site request forgery (CSRF), use a proper CSRF case when a third party causes the logged in victim to perform an action.
- For a 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
- 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.

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).
- A patch is technically feasible (i.e., it doesn’t require a major architectural change)
- The issue is a security issue, and falls under our Security Patch Policy.

Atlassian does not provide patches for non-critical bugs.

Provided that a patch does not impact the quality or integrity of a product, Atlassian will ensure that patches supplied to customers are added to the next maintenance release. Customers should watch a filed bug in order...
to receive e-mail notification when a "Fix Version" is scheduled for release. Patches are generally attached to the relevant http://jira.atlassian.com issue.

Further reading

See Atlassian Support Offerings for more support-related information.

Security Advisory Publishing Policy

Publication of Security Advisories

When a critical severity security vulnerability in an Atlassian product is discovered and resolved, Atlassian will inform customers through the following mechanisms:

- We will post a security advisory in the latest documentation of the affected product at the same time as releasing a fix for the vulnerability.
- We will send a copy of all posted security advisories to the Technical Alerts' mailing list for the product concerned. 
  Note: To manage your email subscriptions and ensure you are on this list, please go to my.atlassian.com and click 'Communications Centre' near the top right of the page.
- If the person who reported the vulnerability wants to publish an advisory through some other agency, such as CERT, we will assist in the production of that advisory and link to it from our own.

If you want to track non-critical severity security vulnerabilities, you need to monitor the issue trackers for the relevant products on http://jira.atlassian.com. For example, https://jira.atlassian.com/browse/JRA for JIRA and https://jira.atlassian.com/browse/CONF for Confluence. Security issues in trackers will be marked with a "security" label. All security issues will be listed in the release notes of the release where they have been fixed, similar to other bugs.

One of the ways to monitor updates to security issues is subscribing to the results of a sample search via email or RSS.

Further reading

See Atlassian Support Offerings for more support-related information.

Security Patch Policy

Product Security Patch Policy

Atlassian makes it a priority to ensure that customers' systems cannot be compromised by exploiting vulnerabilities in Atlassian products.

Scope

This page describes when and how we release security patches and security upgrades for our products. It does not describe the whole of disclosure process that we follow. This policy excludes OnDemand and Bitbucket, since these services are always 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](http://FIRST.org) web site.

CVSS scores are mapped into the following severity ratings:

- Critical
- High
- Medium
- Low

An approximate mapping guideline is as follows:

<table>
<thead>
<tr>
<th>CVSS score range</th>
<th>Severity in advisory</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 2.9</td>
<td>Low</td>
</tr>
<tr>
<td>3 – 5.9</td>
<td>Medium</td>
</tr>
<tr>
<td>6.0 – 7.9</td>
<td>High</td>
</tr>
<tr>
<td>8.0 – 10.0</td>
<td>Critical</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Crucible Troubleshooting</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Crucible freezes unexpectedly</td>
</tr>
<tr>
<td>• JIRA Integration Issues</td>
</tr>
<tr>
<td>• Problems with very long comments and MySQL migration — Affects Version</td>
</tr>
</tbody>
</table>

**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.mchange.v2.c3p0.impl.NewProxyPreparedStatement.executeBatch(NewProxyPreparedStatement.java:1723)
  at org.hibernate.jdbc.BatchingBatcher.doExecuteBatch(BatchingBatcher.java:48)
  at org.hibernate.jdbc.AbstractBatcher.executeBatch(AbstractBatcher.java:246)
  ... 163 more

The Crucible error log can be found under FISHEYE_INST/var/log/fisheye-error.log.YYYY-MM-DD.

See the JIRA issue for more information.

Workaround

Until the issue is solved, the suggested course of action is to restart your Crucible instance. This will return
Crucible to normal operation.

The Crucible development team is actively working on a solution and this be part of an upcoming point release
of Crucible.

Requesting Support

If you require assistance in resolving the problem, please raise a support request under the Crucible project.

JIRA Integration Issues

Users are mapped to their own accounts when using Trusted Applications.

If you (or the general account used for JIRA access, if not using Trusted Applications) do not have the
permissions to carry out the JIRA actions linked from Crucible, an error will occur. Depending on the error
returned from JIRA, Crucible may not display the error correctly or display it at all, simply reporting that "An error
has occurred". To investigate what the error was, you can access the Crucible debug log, named fisheye-debug.log.YYYY-MM-DD under the dist.inst/var/log folder of your Crucible installation. In the debug log, look for the date and time when your error took place. Here, you will be able to follow the links and see what error the JIRA instance was producing by clicking through to JIRA.

If you are using JIRA 4.0 you will not be able to create subtasks in versions of Crucible prior to 2.0.5. If you are
affected by this bug, please upgrade to at least 2.0.6 (2.0.5 is affected by another bug CRUC-2471).

Problems with very long comments and MySQL migration

Affects Version
This issue was introduced in Crucible 2.0 and fixed in Crucible 2.1.

**Issue Symptoms**

There is a known issue with Crucible 2.0.x and very long comments when migrating your database to MySQL. In some circumstances, this might result in truncation of very long comments, causing data loss.

Depending on your MySQL configuration, you may see an error message like this while migrating to MySQL, causing the migration to fail:

```
2009-07-16 16:56:12,390 ERROR [ThreadPool1] fisheye.app
com.cenqua.crucible.actions.admin.database.DBEditHelper-doGet -
Database migration failed:
java.sql.BatchUpdateException: Data truncation: Data too long for column 'cru_message' at row 1
java.sql.BatchUpdateException: Data truncation: Data too long for column 'cru_message' at row 1
```

You may not see the message if you are running MySQL with default settings.

For more information, see the [JIRA issue](https://jira.atlassian.com/browse/CVE-2009-07-16).

**Workaround**

If your data contains very long comments or review descriptions (longer than 21,845 multibyte unicode characters), consider avoiding use of MySQL until you can upgrade the product. Alternatively, use PostgreSQL or the default (built-in) HSQLDB database.

This issue is now resolved. This issue was introduced in Crucible 2.0 and fixed in Crucible 2.1.

**Requesting Support**

If you require assistance in resolving the problem, please raise a support request under the Crucible project.

**Contributing to the Crucible Documentation**

Would you like to share your Crucible hints, tips and techniques with us and with other Crucible users? We welcome your contributions.

**On this page:**

- Blogging your Technical Tips and Guides – Tips of the Trade
- Contributing Documentation in Other Languages
- Updating the Documentation Itself
  - Getting Permission to Update the Documentation
  - Our Style Guide
  - How we Manage Community Updates

**Blogging your Technical Tips and Guides – Tips of the Trade**

Have you written a blog post describing a specific configuration of Crucible or a neat trick that you have discovered? Let us know, and we will link to your blog from our documentation. More....

**Contributing Documentation in Other Languages**

Have you written a guide to Crucible in a language other than English, or translated one of our guides? Let us know, and we will link to your guide from our documentation. More....

**Updating the Documentation Itself**

Have you found a mistake in the documentation, or do you have a small addition that would be so easy to add yourself rather than asking us to do it? You can update the documentation page directly
Getting Permission to Update the Documentation

Please submit the Atlassian Contributor License Agreement.

Our Style Guide

Please read our short guidelines for authors.

How we Manage Community Updates

Here is a quick guide to how we manage community contributions to our documentation and the copyright that applies to the documentation:

- **Monitoring by technical writers.** The Atlassian technical writers monitor the updates to the documentation spaces, using RSS feeds and watching the spaces. If someone makes an update that needs some attention from us, we will make the necessary changes.

- **Wiki permissions.** We use wiki permissions to determine who can edit the documentation spaces. We ask people to sign the Atlassian Contributor License Agreement (ACLA) and submit it to us. That allows us to verify that the applicant is a real person. Then we give them permission to update the documentation.

- **Copyright.** The Atlassian documentation is published under a Creative Commons CC BY license. Specifically, we use a Creative Commons Attribution 2.5 Australia License. This means that anyone can copy, distribute and adapt our documentation provided they acknowledge the source of the documentation. The CC BY license is shown in the footer of every page, so that anyone who contributes to our documentation knows that their contribution falls under the same copyright.

RELATED TOPICS

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.

On this page:

- No guides yet

<table>
<thead>
<tr>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>No guides yet</td>
</tr>
<tr>
<td>We do not yet have any guides to link here. Be the first to suggest one!</td>
</tr>
</tbody>
</table>

Adding Your Own Guide to this Page

Have you written a guide for Crucible in another language? Add a comment to this page, linking to your guide. We will include it if the content fits the requirements of this page.

Giving Feedback about One of the Guides

If you have feedback on one of the guides listed above, please give the feedback to the author of the linked guide.

If you want to let us know how useful (or otherwise) one of these guides is, please add a comment to this page.

Other Sources of Information
Crucible documentation
Atlassian website
Atlassian blog
Crucible plugins

**Glossary**

Code review terminology can be confusing as there are many different words for the concepts, roles and process. Crucible has adopted the following terms (click for definitions):

- approve
- authors in Crucible
- code review
- comment
- creator
- defect
- moderator
- participant
- permission scheme
- permissions in Crucible
- projects in Crucible
- review duration
- reviewer
- role
- state
- statement of objective
- users in Crucible

**approve**

Issuing a review to the reviewers is known as approving the review.

**authors in Crucible**

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

Note: to map your repository username to your FishEye/Crucible username, see Changing your User Profile.

**code review**

Without prejudice to 'code inspection', 'peer review' or a myriad of other terms, Crucible uses the phrase code review for simplicity.

See Getting Started.

**comment**

A comment is a short textual note that is linked to a review, revision/diff, source line, or to another comment.
See Adding comments.

creator

The creator is the person who creates the review. In most cases this person will also act as moderator.

defect

A defect is a comment flagged as something that requires addressing and includes optional defect classifications.

See Flagging Defects and Customising the defect classifications.

moderator

The moderator is the person responsible for creating the review, approving the review, determining when reviewing is finished, summarising the outcomes and closing the review. By default, the moderator is the creator. See also author, the person whose changes to the code are to be reviewed.

participant

Crucible uses the terms creator, author, moderator, and reviewer to describe the roles of review participants.

permission scheme

A permission scheme assigns particular permissions to any or all of the following:

- Particular Users.
- Particular Groups.
- All logged-in users.
- Anonymous Users
- People in particular Review Roles, such as:
  - Author
  - reviewer
  - creator
  - moderator

The scheme’s permissions will apply to all reviews belonging to the project(s) with which the scheme is associated.

You can create as many permission schemes as you wish. Each permission scheme can be associated with many projects or just one project, allowing you to tailor appropriate permissions for individual projects as required.

See Creating a permission scheme.

permissions in Crucible

A permission is the ability to perform a particular action in Crucible, e.g. ‘Create Review’. Permissions are assigned to particular users, groups or review roles by means of permission schemes.

The following permissions are available:

<table>
<thead>
<tr>
<th>Permission</th>
<th>Description</th>
<th>Default Assignees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abandon</td>
<td>Ability to abandon (i.e. cancel) a review.</td>
<td>Creator Author Moderator</td>
</tr>
<tr>
<td>Approve</td>
<td>Ability to approve a review (i.e. issue it to the reviewers).</td>
<td>Creator Author Moderator</td>
</tr>
<tr>
<td>Close</td>
<td>Ability to close a review once it has been summarised.</td>
<td>Creator Author Reviewer Moderator</td>
</tr>
</tbody>
</table>
## Comment
Ability to add or remove a comment to or from a review.
- **Creator**
- **Author**
- **Reviewer**
- **Moderator**

## Complete
Ability of a reviewer to change their individual review status to Complete.
- **Reviewer**

## Create
Ability to create a review.
- **All logged-in users**

## Delete
Ability to delete a review.
- **Creator**
- **Author**
- **Moderator**

## Edit Review Details
Ability to edit a review's details and change the set of revisions being reviewed.
- **Creator**
- **Author**
- **Reviewer**
- **Moderator**

## Re-Open
Ability to re-open a closed or abandoned review.
- **Creator**
- **Author**
- **Reviewer**
- **Moderator**

## Recover
Ability to resurrect an abandoned (i.e. cancelled) review.
- **Creator**
- **Author**
- **Reviewer**
- **Moderator**

## Reject
Ability to reject a review submitted for approval (i.e. prevent it from being issued to reviewers).
- **Creator**
- **Author**
- **Moderator**

## Submit
Ability to submit a review for approval (i.e. request that the review be issued to the reviewers).
- **Creator**
- **Author**
- **Moderator**

## Summarise
Ability to summarise a review. (Normally this would be done after all reviewers have completed their review.)

## Uncomplete
Ability of a reviewer to change their individual review status from Complete to Uncomplete.
- **Reviewer**

## View
Ability to view a review. (People without this permission will not know that the review exists.)
- **Anonymous users**
- **All logged-in users**
- **Creator**
- **Author**
- **Reviewer**
- **Moderator**

### projects in Crucible

A Crucible *project* provides a way to group and manage related *reviews* – typically reviews that are all involved with the same software project. A Crucible project allows you to

- define default *moderators*, *authors* and *reviewers* for the reviews in that project.
- define which people are eligible to be *reviewers* for the reviews in that project.
- use *permission schemes* to restrict who can perform particular actions (e.g. ‘Create Review’) in that project.

Every Crucible review belongs to a project. Each project has a name (e.g. ACME Development) and a key (e.g. ACME123).
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:

<table>
<thead>
<tr>
<th>State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Draft</td>
<td>See Creating a Review.</td>
</tr>
<tr>
<td>Require Approval</td>
<td>Relevant only when the moderator is not the creator. See Issuing a Review.</td>
</tr>
<tr>
<td>Under Review</td>
<td>See Issuing a Review and Reviewing the Code.</td>
</tr>
<tr>
<td>Summarize</td>
<td>See Summarising and Closing the Review.</td>
</tr>
<tr>
<td>Closed</td>
<td>See Summarising and Closing the Review.</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abandoned</td>
<td>This happens when a review is deleted.</td>
</tr>
<tr>
<td>Rejected</td>
<td>Any reviews that a moderator has rejected.</td>
</tr>
<tr>
<td>Needs Fixing</td>
<td>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.</td>
</tr>
</tbody>
</table>

**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.