



# FISHEYE

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# .bookmarks



## FishEye 1.4 Bookmarks

This page is a container for all the bookmarks in this space. Do not delete or move it or you will lose all your bookmarks.  
[Bookmarks in FishEye 1.4](#) | [Links for FishEye 1.4](#)



## The 15 most recent bookmarks in FishEye 2.5

There are no bookmarks to display.

# FishEye Documentation Home

## FishEye 2.5.x

### User's Guide

The [FishEye User's Guide](#) is for developers, project managers, testers – anyone who uses FishEye. New to FishEye? Start by exploring the [FishEye screens](#) and [configuring repositories](#), [viewing the changelog](#) and [creating charts](#).

### Administrator's Guide

The [FishEye Administrator's Guide](#) is for people with FishEye administration rights. It will help you set up [users and groups](#), [email notifications](#), and [JIRA integration](#). You may want to customise the [look and feel](#) of FishEye, and [tune it for best performance](#). Admin tasks such as [backup](#) are also covered. You may also find the [Knowledge Base](#), [FAQ](#) and [FishEye Forum](#) useful.

### Installation Guide

The [FishEye Installation Guide](#) is for people who are installing FishEye for the first time. Check the [supported platforms](#), then [download](#) and [install FishEye](#). Where to next? The [FishEye 101](#) will help you get started. If you are using other Atlassian products, take a look at the [Integration Guide](#).

### Upgrade Guide

The [FishEye Upgrade Guide](#) is for people who are upgrading their instance of FishEye. Start by reading the [latest Release Notes](#) and version-specific Upgrade Guide for the version to which you are upgrading, then [download FishEye](#) and follow the [main Upgrade Guide](#).

### Developer Resources

These resources are for software developers who want to create their own plugins for FishEye. Take a look at the [Development Hub](#) and the [API Documentation](#). You may also find the [FishEye Developers Forum](#) useful.

## FishEye 101

Welcome to FishEye 101, an introductory guide to FishEye and a tour of the most interesting FishEye features. Use this page to guide your evaluation process or quickly get up to speed with FishEye.

### FishEye 101

Thanks for taking the time to try FishEye. To help you make the most of your time, we've taken the liberty of compiling some easy instructions for configuring and using FishEye.

Software developers are the intended audience for this document.

## Getting FishEye up and running


Want to get up and running quickly? Follow these simple steps and you should have FishEye ready to go in no time. **Setting up FishEye can take less than half an hour.**

### Install

First things first, if you haven't already got FishEye up and running carry out the relevant steps below:

- For Windows: (click to expand)


Check [Supported Platforms](#) before you begin.

1. Download FishEye from the Atlassian [Download Center](#)
2. Unzip the downloaded package to the desired installation directory: `c:\fisheye` (see the [documentation](#) if you need help with this).
3. **Launch FishEye** from the command line, typing `bin\start.bat`. A FishEye console window will appear, listing the startup progress. Give it a few minutes to complete its process. When the message "server started" is displayed, you can continue.
-  You will also receive a warning in the console output about a 'missing license'. This is normal.
4. On the same machine go to <http://localhost:8060/> (or type the hostname or IP address in place of `localhost` from another machine) in your web browser. You will be prompted to enter a license key (obtained at <http://my.atlassian.com>) and set the admin password. (Tip: you can just use one Crucible evaluation license key to try both FishEye & Crucible.)

It should only take you a few minutes to have a running instance of FishEye. If you have any difficulty during the installation process (i.e. it takes longer than twenty minutes) please [contact our support team](#) for assistance. They're ready to help at any time.

- For Linux and Mac OS X: (click to expand)

Check [Supported Platforms](#) before you begin.


1. Download FishEye from the Atlassian [Download Center](#)
2. Unzip the downloaded package to the desired installation directory: `/opt/fecru-x.x.x` (see the [documentation](#) if you need help with this).
3. **Launch FishEye** from the command line, typing `./bin/run.sh`. Console output will appear, listing the startup progress. Give it a few moments to complete its process. When the message "server started" is displayed, you can continue.
-  You will also receive a warning in the console output about a 'missing license'. This is normal.
4. On the same machine go to <http://localhost:8060/> (or type the hostname or IP address in place of `localhost` from another machine) in your web browser. You will be prompted to enter a license key (obtained at <http://my.atlassian.com>) and set the admin password. (Tip: you can just use one Crucible evaluation license key to try both FishEye & Crucible.)

It should only take you a few minutes to have a running instance of FishEye. If you have any difficulty during the installation process (i.e. it takes longer than twenty minutes) please [contact our support team](#) for assistance. They're ready to help at any time.

### Scan

- FishEye's fast performance is built on the way it scans repositories. (click to expand)

Once installed, FishEye needs to do an initial index, where it accesses, indexes and organizes a view of your repository (including all historical items) back to the earliest commit.

 FishEye operates in a completely read-only mode, so your repository data is safe. Also, always run FishEye on an SCM account that is limited to read-only access.

Click on the '**Administration**' link in the footer bar to access the administration interface, then click '**Add Repository**'.

There are lots of options when [adding a repository](#), but in most situations you should be able to run with the defaults. For evaluation purposes, we recommend that you just index one project, which is usually a subset of your whole repository (rather than everything). If you choose to index your entire repository, just 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). Indexing just one project, you can have FishEye up and running quickly for evaluation. The basic process is slightly different for each SCM type. Carry out the respective process for your SCM below:

- [Subversion](#) set the *Path* field to a subdirectory that includes the directories trunk, branches, tags for your project
- [Perforce & Git](#) set the *Path* to a subdirectory that contains your project's source.
- [CVS](#) set the *CVS dir* to point to your project.

The default indexing settings can have challenges digesting non-standard SCM configurations. If the initial index appears to hang, please [call support](#) as this usually indicates you have a configuration problem, that can be quickly resolved by our friendly support engineers.



Check out the [best practices guide](#) for your FishEye configuration if you have a large repository or are having difficulty with setup.

## Add Users

- ▶ You can automatically import users from an LDAP directory or similar. (click to expand)

FishEye was designed to improve team communication through sharing SCM artifacts, so you will probably want to add accounts for all your team members. There are a few approaches that you can take to adding users:

1. [Leave FishEye in anonymous mode](#). There are two downsides here, anyone who can see FishEye, can see all the source and you won't be able to use email watches or save preferences.
2. [Built-in users with "public sign up"](#). Anyone can create an account, but not especially secure.
3. [Built-in users](#). This is simple to set up for a small user base, however adding each user manually is not recommended for large-scale systems with many users.
4. [External authentication](#). This includes sources such as LDAP, Active Directory or similar.
  - a. [Atlassian Crowd](#). If you already have a Crowd server, this is a snap to [set up](#).
  - b. [LDAP/Active Directory](#). You can point FishEye at your existing corporate directory. If you are familiar with LDAP, this should be easy.
  - c. [Host/PAM Authentication](#). You can use the local accounts from the physical machine FishEye is running on.

If you opt for accounts, be sure to make yourself and other relevant users FishEye [administrators](#). You may also be interested in [pre-loading users from LDAP/Crowd](#) and [setting repository level access control](#) based on groups.

## Configure Mail (optional)

- ▶ Email notifications are a great way to keep up with FishEye activity. (click to expand)

FishEye can deliver email feeds based on user configured parameters. For example, you can watch the contributions of a specific colleague or changes to a branch of code you're working on. To take advantage of this feature, you will need to [tell FishEye about your SMTP server](#).

## Configure JIRA (optional)

- ▶ FishEye integrates with JIRA, Atlassian's enterprise issue tracker. (click to expand)

1. If you already have a JIRA server set up, you can go ahead and set up integration between the two. Once established, activity on relevant JIRA issues will appear in the FishEye activity stream. JIRA issue keys will also be hyperlinked, also a small information window will load when you mouse-over JIRA issue keys.
2. Visit the [FishEye documentation](#) for instructions on how to set up JIRA integration in FishEye.

## Setup Complete!

- ▶ Your FishEye instance is now established. (click to expand)

Congratulations! Our support records indicate that over 80% of support calls happen during this installation phase. Once you have made it this far, the rest of the evaluation ought to flow smoothly.



If you do need assistance, our support team is ready to help. Create an issue at our [support system](#) under the FishEye project.

There are heaps of tweaks and configuration options that you can experiment with. Check out the [FishEye Administrator's Guide](#) for more information.

## Learning the Basics

FishEye is a tool that lets you view the contents of your Source Code Management (SCM) repository as a web page. In this section you will learn more about understanding the FishEye UI, search options, and notifications.

### Browsing your Code Repository

#### Browsing & History

- ▶ Power-browse your repository. (click to expand)

Fisheye's Windows Explorer-style interface allows you to efficiently navigate your source tree and view the depths of your repository in a structured way. Select a file to view its entire revision history. You also have one click access to statistics, line history, commit volume, and much more. See the [documentation](#) for more.



Everything in FishEye can be bookmarked. See the [documentation](#) for more.

#### Full Source View

- ▶ View the full source of any file revision. (click to expand)

The 'Source' tab shows the blame information associated with every line (allowing you to pinpoint who is responsible for every change). Author and age can be displayed as an aid to annotation. See the [documentation](#) for more.

#### Changesets & Diffs

- ▶ See every change and collaborate anywhere on the web. (click to expand)

Every commit and any diff can be viewed and easily linked to. This removes ambiguity from discussions in other mediums (such as discussions held via instant messaging, wiki pages, email, issue trackers and so on). Try the side by side diff view to which gives you two panes that are synchronised horizontally and vertically, colour markers clearly show the relationship, and you can step through changes at your chosen amount of context. See the [documentation](#) for more.

#### Filtering the changes made to the source code

- ▶ Quickly find what you're looking for. (click to expand)

The 'Activity' tab displays the changes made to the repository/branch/directory/file. Find the changes that you're seeking by filtering commits based on log message, path, author, date, branch (and other fields). This control is a snappy filter button under the Source 'Activity' tab. See the [documentation](#) for more.

## Activity and People

#### Activity Streams

- ▶ You can see commits and updates from the users in FishEye rolling by. (click to expand)

This information appears as a stream on the Dashboard and other index pages, sorted chronologically showing you the latest changes. Updates can be viewed as an inline stream or RSS feed. See the [documentation](#) for more.

## Your Personal Dashboard

- ▶ See your own work at a glance and a stream of work items that are relevant to you. (click to expand)

Click the 'Dashboard' tab to see a stream of all your own activity; your personal code commits; your reviews (if you are using Crucible) and your tracked issue updates (if you are using JIRA). See the [documentation](#) for more.

## People Lists

- ▶ In FishEye, you can view useful updates and statistics from your team. (click to expand)

On the People index page, you can see the commit history in global lines of code (LOC) that each person has contributed (expressed as a line graph) and their total number of commits. Also, the most recent piece of activity is shown as a clickable item. See the [documentation](#) for more.

## People Pages

- ▶ Each person who makes code changes has a page. (click to expand)

You can click on a person's name to see detailed information about their additions to the repository, showing details of their work and summaries of their activity. Additionally, you can see their work on tracked issues and code reviews if using FishEye with Crucible and JIRA integration is set up. See the [documentation](#) for more.

## Subscribe to SCM Updates

- ▶ Keep track of FishEye activity when your FishEye session is closed. (click to expand)

Every user can keep an eye on changes from RSS Feeds and Email Watches to the source directories that interest them or even individual files. The idea is to encourage people to subscribe to the level of notifications that suits them so the signal isn't lost in the noise. Here are two ways to test this out:

1. Set up a customised feed by going navigating to the 'Tools' menu in the upper right hand corner. Fill in the feed attributes and use the constraints to get data about a specific users contributions to a specific branch of code. Select to subscribe either as an RSS feed or an email watch. For fun, you can comment on their code the moment they commit until they can't take it anymore.
2. Simulate a spontaneous watch request by surfing through the directories. Once you find an interesting contribution, hit the RSS button on in the 'Tools' menu to get updated on that particular file.

See the [documentation](#) for more.

## Sharing your source

### Send Links to Your Code

- ▶ Everything in FishEye can be linked. (click to expand)

A changeset, a diff, even a specific line in a specific revision can be linked. You'll find a lot of stuff is underlined. Keep this in mind as you evaluate FishEye, there are plenty of links that are crying out to be copied to clipboard and sent on to your teammates.

If you look at the URL structure, you'll see that FishEye URLs are very predictable and hence can be easily generated by hand. There are also some extra wrinkles that are great for bookmarks.

Useful Hacks:

- Every line in an annotation is a permalink to that line, clicking the revision number in the gutter takes you to that line in the revision it was last changed (even when the line number is different). Add a post commit hook in your SCM that gives developers the FishEye link as soon as they commit.
  - Using the keyword HEAD will give you the latest version of file.
  - Use branch or tag names in place of revision numbers in diffs.
- See the [documentation](#) for more.

## Search

### Quick Nav

- ▶ When you type in the search box, matches are instantly shown below. (click to expand)

You can quickly find what you are looking for by typing one word or part of the name of what you are looking for. FishEye's Quick Nav feature will immediately show matches and suggestions below, before you've even pressed Enter or activated a proper search. Try typing a CSID to go directly to that page. See the [documentation](#) for more.

### Quick Search

- ▶ FishEye supports some powerful search commands. (click to expand)

The box in the top right corner of every page can be used to quickly search the repository. Start typing and a list of suggestions will pop up to help point you in the right direction. You can also use syntax like `author:anna` to immediately return results which have "anna" in the author field.

See the [documentation](#) for more.

### Running Queries & EyeQL

- ▶ You can create complex queries with FishEye's own query language. (click to expand)

Clicking 'Query' on the navigation bar opens the Simple Search screen. Here, you have access to a wide range of powerful searching functionality including file content searching, and grouping results by changeset, revision, file or directory.

Sometimes, you need data from your repository retrieved and sorted in ways that are unique to your own situation, beyond what the pre-fab GUI can give you. From the Simple Search screen, click 'Switch to EyeQL Search'. Here, you can build searches using FishEye's powerful embedded query language, called EyeQL.

See the [search documentation](#) and [EyeQL Reference Guide](#) for more.

## Advanced Features

FishEye will allow you to learn more about your code beyond just reading the source. Produce useful reports and charts, integrate with other systems, and much more.

## Reports and Charts

### Embedded Charts

- ▶ FishEye now shows charts in various locations. (click to expand)

Throughout the user interface, there are visualisations to help you view the activity in this area. The ubiquitous chart in FishEye plots net lines of code (that's just lines not NLOC for those who are interested) on the top and commit volume (the number of files committed) on the bottom. Note that this chart is generated on the fly based on what you are looking at, from the root down to individual files. On the changelog page the green bar shows you the period that is covered by the changesets on the page you are viewing. Clicking on the chart takes you to that point in time in your changelog.

See the [documentation](#) for more.

### Custom Charts

- ▶ You can define specific metrics to be charted within FishEye. (click to expand)

To start using the more complex charts, click on the Chart tab on the right of the header, or "jump to detailed chart" on any of the baby charts. There is a lot of really cool stuff in these charts.

Some things to try:

- Find out who your biggest contributors are - select "Show by Author" as a Pie chart.
- See what file types you have committed - select "Show by Extension" then select your user ID as in the Author field.
- See who has been changing the most lines in the last month - clear your selections and select "Show by Author" and a date a month prior in the "Start Date" field. If you have a lot of source the chart will probably be flat. If so, change the chart type to "Change", this will zero the line count at the start date.
- Compare your changes against another person - pick yourself and another author (hold the 'control' key to select multiple) in the author list. This isn't very useful but can be a bit of fun!

Note that the committer gets a line for each line they add or change. The previous owner of a modified or deleted line loses one. Currently any change, even whitespace, counts.

See the [documentation](#) for more.

## Plugin Reports

- ▶ FishEye is extensible, allowing you to create your own reports. (click to expand)

You can create your own report as a plugin and have it appear in the menu, under the '**Source**' tab, and the '**Reports**' sub-tab. For example, the '**Code Metrics**' option that appears in the user interface is actually a plugin, added in to FishEye. You can use this plugin as a basis to create your own custom reports and add them in to FishEye. See the [FishEye developer documentation](#) for more.

## Leveraging CSV and the REST API

- ▶ You can export data and extend FishEye programmatically. (click to expand)

When you need to extract repository data for a report, you can export the results of FishEye searches to a CSV (comma-separated values) file which imports directly into spreadsheets and other office applications. Simply select the radio buttons at the bottom of the Simple Search dialog and the CSV file will be generated automatically, prompting you to save the file.

With its own API (Application Programming Interface), FishEye is extensible. If you need FishEye to do more than it ships with and you've got programming chops of your own, the API allows you to build extensions to the application to suit your needs. See the [API documentation](#) for more.

## Integrate with other systems

### Integrate with JIRA issue tracker

- ▶ Link your source code to your JIRA issues

JIRA is Atlassian's issue tracking product - issues are part of software development for every team and can be tracked and managed in JIRA.

Linking your JIRA instance to FishEye adds a source tab to every JIRA issue and browse project screen. Conversely, FishEye activity streams will show JIRA activity for linked projects and JIRA information is visible and linkable in FishEye source details.

View the documentation [here](#).



Not using JIRA and still want to link FishEye to your issue tracker - it is possible using JIRA linkers. [Learn more.](#)

### Integrate with your favorite IDE

- ▶ Access FishEye information from Eclipse, IntelliJ, and Visual Studio

The Atlassian Connector for Eclipse, IntelliJ, and Visual Studio links the FishEye web interface directly to your editor. One click and you can open a file in FishEye to get detailed information about the source you are looking at. Also, use the handy 'copy to clipboard' option to quickly share references to your file with others.

Instructions on the IDE Connector can be found [here](#).

## Advanced Features to Try

### Advanced Configuration Options

- ▶ FishEye has bucketloads of configuration options. (click to expand)

The FishEye developers try and set sensible defaults so that everything "just works" in most situations. However, if you are a power user, there are lots of knobs to twiddle. Check out the documentation below to learn about the nitty gritty.

- [Customize the welcome page](#)
- [Enable tarballs](#)
- [Proxy FishEye through a separate web server](#)
- [Add more indexing threads](#)
- [Throttle repository access](#)
- [Software update notifications](#)
- [ViewVC compatibility](#)

Thanks for taking the time to evaluate FishEye using this guide. To help continue your journey, our support staff are always ready to answer your questions in the [FishEye Forum](#), or solve specific problems at our support portal <http://support.atlassian.com>.

## About FishEye

Your source code repository contains so much useful information, but it is not always easy to extract, interpret or keep up to date.

### How FishEye can Help

FishEye opens up your repository, helping you to understand your changing source code:

- Track changes to your own, your team's, or everyone's source code.
- Choose to be notified by email and/or RSS feeds.
- View the configurable [changelog](#).
- Use the powerful [search](#) functionality
- Construct your own sophisticated queries with [EyeQL](#) and integrate the results with other tools via the FishEye API.
- Link to any artifact in your repository: commits, diffs, directories, file histories, revisions, source lines, and search results.
- Analyse your repository via:
  - Line graphs at every node from root to revision.
  - Showing 'Related Revisions', a list of modifications from all branches, sorted by revision number.
  - File annotations for age and ownership.

### Starting Points

For an overview of FishEye's features, take the [Feature Tour](#).

If you are installing FishEye for the first time, read the [Quick Start Guide](#).

For FishEye troubleshooting information, see the [FAQ](#).

### What's New in FishEye?

See the [FishEye Release Notes](#).

### Known Limitations

- Currently, FishEye does not handle the `$Log` RCS expansion keyword correctly. Some diff results (and line numbers in diffs) may appear incorrect in files where `$Log` is used.
- When indexing the content of files, FishEye has an internal limit on the number of tokens/words in the file it can index. Any text past the one-millionth token/word in a file is ignored.

### System Requirements

See the [Supported Platforms](#).

### Why is it called FishEye?

A fish eye has a wide viewing angle, allowing it to see many things at once. This is a metaphor for how FishEye allows you to easily view the complexity of your source control repositories.

## FishEye User's Guide

- [FishEye Quick Start Guide](#)
- [Using the FishEye Screens](#)
  - [Browsing through a Repository](#)
  - [Searching the Repository](#)
  - [Viewing a File](#)
    - [Viewing the Changelog](#)
    - [Viewing a File History](#)
    - [Viewing File Content](#)



- Using Side by Side Diff View
- FishEye Charts
- Using Favourites
- Copying and Pasting Code from FishEye
- Changeset Discussions
- Viewing People's Statistics
- Changing your User Profile
  - Re-setting your Password
- Antglob Reference Guide
- Date Expressions Reference Guide
- EyeQL Reference Guide

## FishEye Quick Start Guide

This guide will explain how to get FishEye installed and running as easily as possible. For more advanced installation topics, see the [Installation Guide](#).

### Step 1. Install FishEye

1. [Download](#) the FishEye zip file and extract it. This document assumes you have extracted FishEye to `/FISHEYE_HOME/`.
2. Ensure you have installed an appropriate Java runtime - see [Supported Platforms](#). Ensure that `java` is in the PATH, or that the `JAVA_HOME` [environment variable](#) is set.
3. If you intend to use FishEye with [Subversion](#), please be sure to read about the [Supported Platforms](#), [Subversion client setup](#), and [granting permission](#) to FishEye to scan your repository.
4. If you intend to use FishEye with [Perforce](#), please ensure you read about the [Supported Platforms](#) and [Perforce client setup](#).

### Step 2. Run FishEye

1. You can start FishEye immediately with the following:
  - For Unix-based systems:

```
$ cd /FISHEYE_HOME/bin
$ ./run.sh
```

- For Windows-based systems:

```
C:\> cd FISHEYE_HOME\bin
C:\FISHEYE_HOME\bin> run.bat
```

2. Once started, FishEye will run its own HTTP web server on port 8060. You can access FishEye immediately by going to `http://HOSTNAME:8060/` in a browser.



#### Default ports

By default, FishEye will listen on port 8060 for HTTP requests. It also listens on 127.0.0.1:8059 as a control port. You can configure both of these in the FishEye Administration pages or by editing `/FISHEYE_HOME/config.xml` and restarting FishEye.



#### Read-only access for FishEye

We recommend you run FishEye as a user that has only **read** access to your repository.



An exception to this rule is users running the JIRA FishEye plugin with [Perforce Job Integration](#). In that scenario, you must give FishEye write access.

### Step 3. Set up FishEye

1. The first time you access FishEye from a browser, you will be asked to enter an administrator password. This password will give you access to the FishEye Administration pages.
2. You will also be prompted for a trial license, which you can find [here](#).
3. Once you have set up an administrator password, you can access the Administration pages at `http://HOSTNAME:8060/admin/`.
4. One of the first steps will be to [add a repository](#).

### Step 4. Use FishEye

1. Once you have [added a repository](#), you can view it in FishEye at <http://HOSTNAME:8060/>.
2. FishEye needs to build an index and cache of the contents of your repository, so some information will not appear in FishEye until this is complete.

## Stopping FishEye

To stop the FishEye server:

- For Unix-based systems:

```
$ cd /FISHEYE_HOME/bin
$ ./stop.sh
```

- For Windows-based systems:

```
C:\> cd FISHEYE_HOME\bin
C:\FISHEYE_HOME\bin> stop.bat
```

 Want a hands-on tour of the best FishEye features? See the [FishEye 101](#) page.

## Using the FishEye Screens

The sections below describe the different screens in FishEye and the information you can retrieve from them. Each page (tab) has a number of panes, and each pane is described separately.

### Header

The header along the top of the FishEye screen will remain the same as you browse through the different screens. You can do the following,

- Click the **'Dashboard'** tab to see your personal code commits; your reviews (if you are using [Crucible](#)); and your issues (if you are using [JIRA](#)).
- Click the **'Source'** tab to see the following sub-tabs:
  - **'Repositories'** — the list of all FishEye repositories. Click a repository name to [browse the repository](#) . A number of sub-tabs are then available as described below (see *'Repository Sub-Tabs'*).
  - **'Activity'** — sub-tabs allow you to see the following across all repositories, for all users: code commits; reviews (if you are using [Crucible](#)); and issues (if you are using [JIRA](#)).
- Click the arrow next to the **'Source'** tab to open the dropdown menu. *Logged-in users* will be able to see a list of links to repositories they have recently visited.
- *If you are using Crucible:* Click the **'Projects'** tab to see a list of all projects (see the [Crucible documentation](#) ). Click the arrow to open the dropdown menu. *Logged-in users* will be able to see a list of links to projects they have recently visited.
- Click the **'People'** tab to view statistics about committers to your FishEye repositories (see [Viewing People's Statistics](#) ). Click the arrow to open the dropdown menu. *Logged in users* will be able to see a list of links to user pages they have recently visited.
- *If you are using Crucible:* Click the **'Reviews'** tab to go to your code reviews (see the [Crucible documentation](#)). Click the arrow to open the dropdown menu. *Logged-in users* will be able to see a list of links to reviews they have recently visited as well as links to the Crucible *'Inbox'* and *'Outbox'*.
- Click the star icon to view your favourite repositories, folders and/or files (see [Using Favourites](#) ).
- Click your name to change your user settings (see [Changing your User Profile](#) ).

### Repository Sub-Tabs

Once you have selected a repository, you can navigate through it by selecting files and folders on the tree in the left navigation bar. When you reach a source file, a summary page is shown, displaying recent revisions to the file.

The horizontal sub-tabs above the file provide different views into the repository:

Sub-Tab Name	Description
Revisions	When viewing a file, shows the latest revisions of the file. See <a href="#">Viewing a File History</a> .
Files	When viewing a folder, shows the contents of the directory.

Activity	<p>Shows recent activity on the item. There are a number of sub-options here (see <a href="#">Viewing the Changelog</a>):</p> <ul style="list-style-type: none"> <li>• All Activity — The default view, showing commits, reviews<sup>1</sup> and JIRA issues<sup>2</sup>.</li> <li>• Commits — Shows commits in the activity stream.</li> <li>• Reviews<sup>1</sup> — Shows review activity in the activity stream.</li> <li>• Scroll to Changeset — Opens the changeset ID specified in the text field (press Enter to carry out the action).</li> <li>• Filter — Applies constraints to the current activity stream.</li> <li>• Show Revisions — If this is selected, then changeset items are automatically expanded to show modified files.</li> <li>• Earlier Activity (Left Arrow icon) — Loads a page of earlier activity.</li> <li>• Later Activity (Right Arrow icon) — Loads a page of later activity.</li> </ul> <p><sup>1</sup> If you are using <a href="#">Crucible</a>  <sup>2</sup> If you are using <a href="#">JIRA</a></p>
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 (see <a href="#">FishEye Charts</a> ).
Source	Shows the contents of the file.
Query	Allows you to run an <a href="#">advanced search</a> .

Screenshot: The Repositories View

## Repositories

Native Repository Access (8)
Plugins (5)

FishEye and Crucible natively supports Subversion, CVS, ClearCase, Perforce, Git and Mercurial repositories 🟢

Name	Type	Description	Location	State	Last Update	
AGMP	Subversion	a good marketing ploy	<a href="https://studio.atlassian.com/svn/AGMP">https://studio.atlassian.com/svn/AGMP</a>	Disabled		⚙️
applinks	Subversion		<a href="https://studio.atlassian.com/svn/APL">https://studio.atlassian.com/svn/APL</a>	Disabled		⚙️
atlassian	Subversion		<a href="https://svn.atlassian.com/svn/public/atlassian">https://svn.atlassian.com/svn/public/atlassian</a>	Running	58 seconds ago	⚙️
BM	Subversion	Build Monitor	<a href="https://labs.atlassian.com/svn/BM">https://labs.atlassian.com/svn/BM</a>	Disabled		⚙️
CFS	Subversion		<a href="https://studio.plugins.atlassian.com/svn/CFS">https://studio.plugins.atlassian.com/svn/CFS</a>	Running	50 seconds ago	⚙️
CGIT	Subversion	Git LightSCM Plugin	<a href="https://studio.plugins.atlassian.com/svn/CGIT">https://studio.plugins.atlassian.com/svn/CGIT</a>	Running	50 seconds ago	⚙️
CLOV	Subversion	Clover	<a href="https://studio.atlassian.com/svn/CLOV">https://studio.atlassian.com/svn/CLOV</a>	Running	28 seconds ago	⚙️
FE	Subversion	FishEye	<a href="https://studio.atlassian.com/svn/FE">https://studio.atlassian.com/svn/FE</a>	Running	5 seconds ago	⚙️

Add...
🔄

Info  
Indexing has commenced for repository FE

Screenshot: The Activity View

**My Reviews**

Inbox (0)  
 To Review (0)  
 To Summarize (0)  
 In Draft (0)  
 Require My Approval (0)

Outbox (8)  
 Out For Review (0)  
 Completed (8)

Archive (261)  
 Closed (261)  
 Abandoned (0)

**My Snippets**

My Open Snippets (0)  
 My Snippets (2)

**Line History**

**Commit Activity**

**Committer Mappings**  
 2 committer mappings

**Activity** | Reviews | Favourites

All | Commits | Reviews | Issues | Expand all | ☒ Show My Activity

**Today**

Conor MacNeill 11 mins ago  
 21781:61864d6bb0a8 changed 0 files default  
 Merge from 2.4

Nick Pellow 44 mins ago  
 21781:61864d6bb0a8 changed 0 files 2.5-search-bugs  
 NONE: creating branch for bug fixes to search for fisheye 2.5

**Tuesday 01 Feb**

Pierre-Etienne Poirot 7:06 pm  
 21776:debb924a3016 changed 7 files default  
 CRUC-5549: add highlighting for the committers

Tom Davies 4:30 pm  
 21775:6fa6ac6741b2 changed 1 file 2.4.4-CRUC-5026-dont-load-changeset  
 CRUC-5026: don't load changesets unnecessarily

Pierre-Etienne Poirot 4:29 pm  
 21774:0e22b068c81a changed 1 file default  
 CRUC-5534: remove leading wildcards

Conor MacNeill 4:04 pm  
 21773:363e91138ada changed 0 files 2.4.4-CRUC-5317-Json-Review-Creation  
 Closing as merged to 2.4.5 and default

*Screenshot: Repository Sub-Tabs*

FE / trunk  
 build.xml

All | trunk | 2.3

**Activity** | Revisions | Users | Reports | Source

Diff 2 selected | Diff latest | Filter | Include other branches | Show all details | 1/31

911 revisions

06 Sep Nick Pellow HEAD Annotation | Diff  
 107905 on trunk  
 CRUC-4130: removing jwebunit dependency from functestests. refactored how browserbased tests get selected for running.

Revision ID 107905  
 Parents trunk/build.xml 107897  
 Properties  
 cenqua = hello  
 svn:eol-style = native  
 svn:executable = \*  
 svn:keywords = Author Date Id Revision

06 Sep Conor MacNeill Annotation | Diff  
 107897 on trunk  
 Revert name of target

06 Sep Conor MacNeill Annotation | Diff  
 107889 on trunk  
 CRUC-3755: Validate Crucible Only using two methods

05 Sep Conor MacNeill Annotation | Diff  
 107863 on trunk  
 Remove old dross from build - optimising away optimiseit

## Browsing through a Repository

You can use FishEye to [select a repository](#) and browse through it. The repository view provides you with information about the files in the repository, activity occurring related to the repository and users committing to the repository. You can also generate charts and search for specific file revisions in the repository.

On this page:


- [Browsing through a Repository](#)

- [Hiding Empty Directories and Deleted Files](#)
- [Watching a Repository](#)

## Browsing through a Repository

To browse through a repository,

1. Click the **'Source'** tab. The **'Repositories'** view will be displayed, showing summary information if you have multiple repositories set up.
2. Click the desired repository to view its contents. See the ['Viewing a repository'](#) screenshot below.
3. (optional) Select the [branch](#) or [tag](#) of the repository that you want to view information for, using the branch/tag selector (non-ClearCase repositories only). Only information related to the selected branch/tag will be displayed, when browsing your repositories.

- Click the tab for the default branch (e.g. 'trunk') to view only information related to it. The default branch (e.g. 'trunk') is determined by FishEye.
- Click the  icon and enter the desired branch/tag, to view information related to the branch/tag.
- Click the 'All' tab to view information related to all branches/tags.

Screenshot: Branch/Tag selector



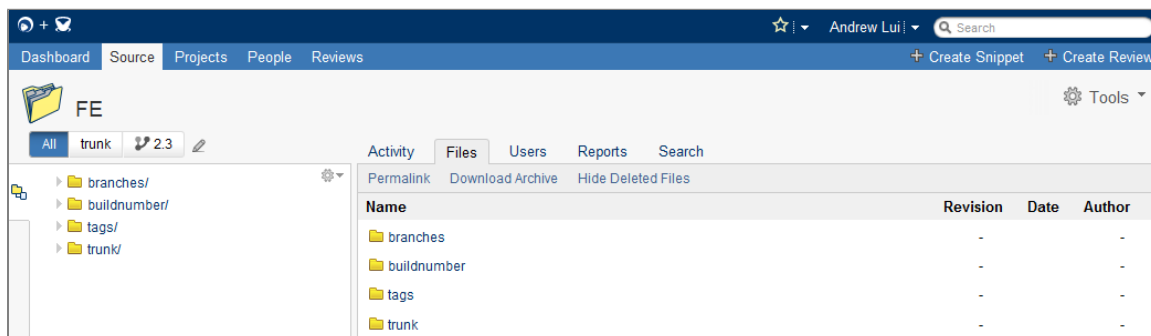
4. You can view various information about the repository, as outlined below. If you navigate to a folder, the context of the information below will change. For example, if you navigate to a particular folder in the left navigation tree, the activity, files and users information, reports generated and search results will all relate to that folder.



A greyed out item is either a deleted file or an empty/deleted (folder).

- **'Activity'** tab — View the commit, review and issue (requires JIRA) activity related to the repository/folder. The activity stream is similar to the changelog activity stream, see [Viewing the Changelog](#) for more information.
  - **'Files'** tab — View the contents of the repository/folder being viewed.
  - **'Users'** tab — View the commit history of the users that have committed changes to files in the repository/folder. See [Viewing People's Statistics](#) for more information.
  - **'Reports'** — View activity charts for the repository/folder. See [FishEye Charts](#) for more information.
  - **'Search'** — Search the repository/folder. See [Searching the Repository](#) for more information.
5. Click any file, when browsing the repository, to view information about the file. See [Viewing a File](#) for more information.

Screenshot: Browsing a repository





## Hiding Empty Directories and Deleted Files

FishEye tracks deleted files for your repository. Deleted files will be greyed out in your left-hand navigation tree. If all of the files in a directory are deleted, the empty directory will also be greyed out. Note, deleted files and empty directories are not removed from your left navigation.

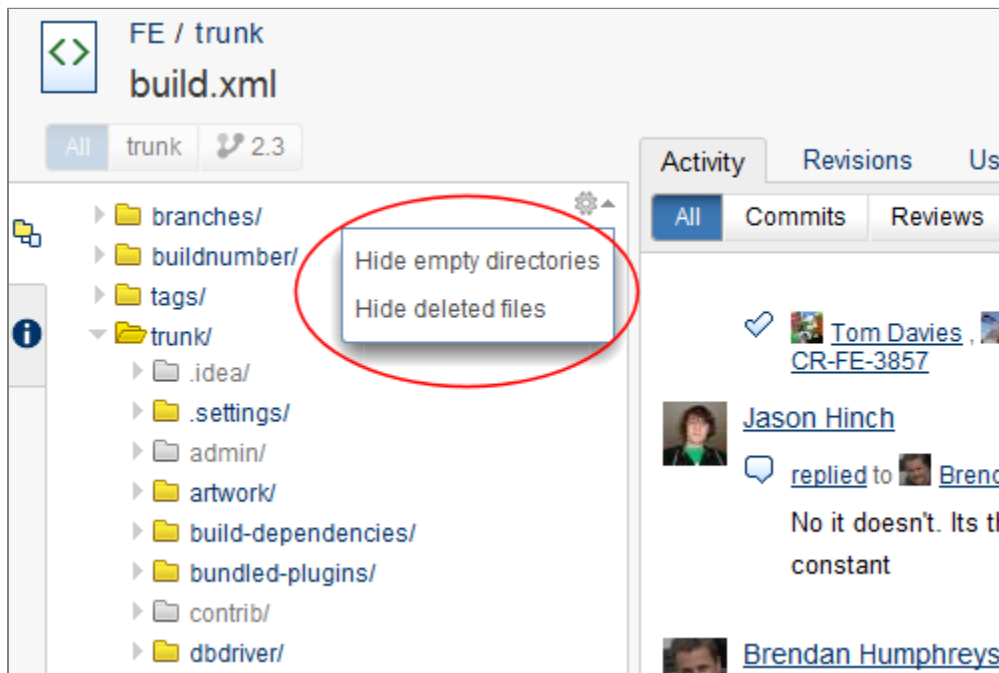
You can choose to hide deleted files and empty directories in the left navigation tree when browsing through a repository, as described below.

To hide deleted directories/files in your navigation tree,

1. Click the **'Source'** tab and browse a repository.
2. In the left hand navigation panel, click the  to show the dropdown menu:
  - Click **'Hide empty directories'** to hide all empty (greyed out) directories and their contents (i.e. deleted files and other empty directories).
  - Click **'Hide deleted files'** to hide deleted (i.e. greyed out) files. This does not affect directories.

 Hence, if you choose to hide both empty directories and deleted files, you will only see files and directories that exist on the Head of that path. In repositories other than Subversion repositories, this could mean files/directories on any branch.

Screenshot: Hiding deleted files/empty directories




## Watching a Repository

You can "watch" a repository in FishEye/Crucible. Watching the repository allows you to receive emails when changes are made to the repository. You can view all of your watches and configure the frequency of your watch emails in your user profile. See [Changing your User Profile](#) for more information.

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

### To watch a repository,

1. Navigate to the repository that you want to watch.
2. Click the **'Tools'** menu and click **'Watch'**. The page will reload and a watch will be set up for the repository (the watch icon will be coloured, not grey).
  - If you want to remove the watch, navigate the repository, click the **'Tools'** menu and click **'Watch'**. The watch will be removed (the watch icon will be coloured, not grey).

 You can also remove watches via your user profile.

## Searching the Repository

FishEye allows you a number of ways to search through the repository to find particular changesets or files.

Methods of searching are described below:

- [Quick Nav](#)
- [Quick Search](#)
- [Simple Search](#)

- [Advanced Search](#)

## Quick Nav

Quick Nav results appear as soon as you start typing into the **'Quick Search'** box in FishEye, before you've pressed Enter to visit the full page of search results. Results are weighted by most recent edit date; files edited within the last twelve months are given greater weighting.

Quick Nav supports the following powerful search features:

### CamelCase detection

You can type a string like **"UpA"** to quickly find a name such as **"UnplannedArchitecture"**. This is a common feature in IDE search systems.

### Multiple directory selection

You can type the following:

```
common/final/Actions
```

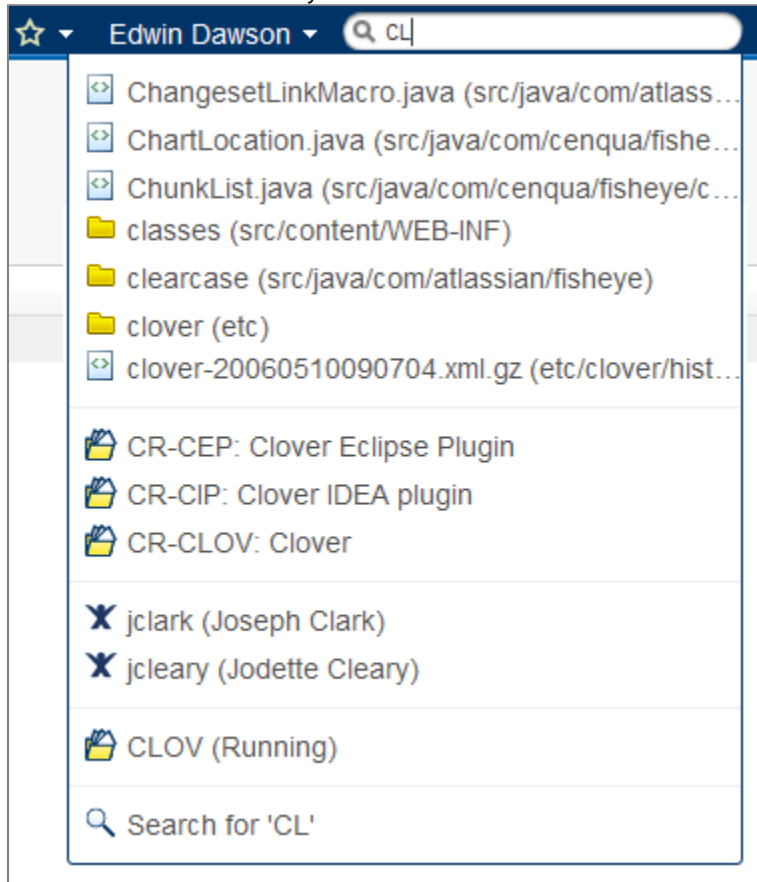
to find a path like this:

```
/src/common/eu/systemworks/specialprojects/final/Actions.java
```

### Results constrained to one repository

When you begin your quick search a page by clicking the **'Source'** tab, then choosing a repository (or any page below it), FishEye Quick Nav will only show you results from the repository you're currently browsing. When you're viewing the index of repositories, the Dashboard, or tabs other than the **'Source'** tab, Quick Nav will show you results from all the repositories connected to FishEye.

Screenshot: Quick Nav in FishEye

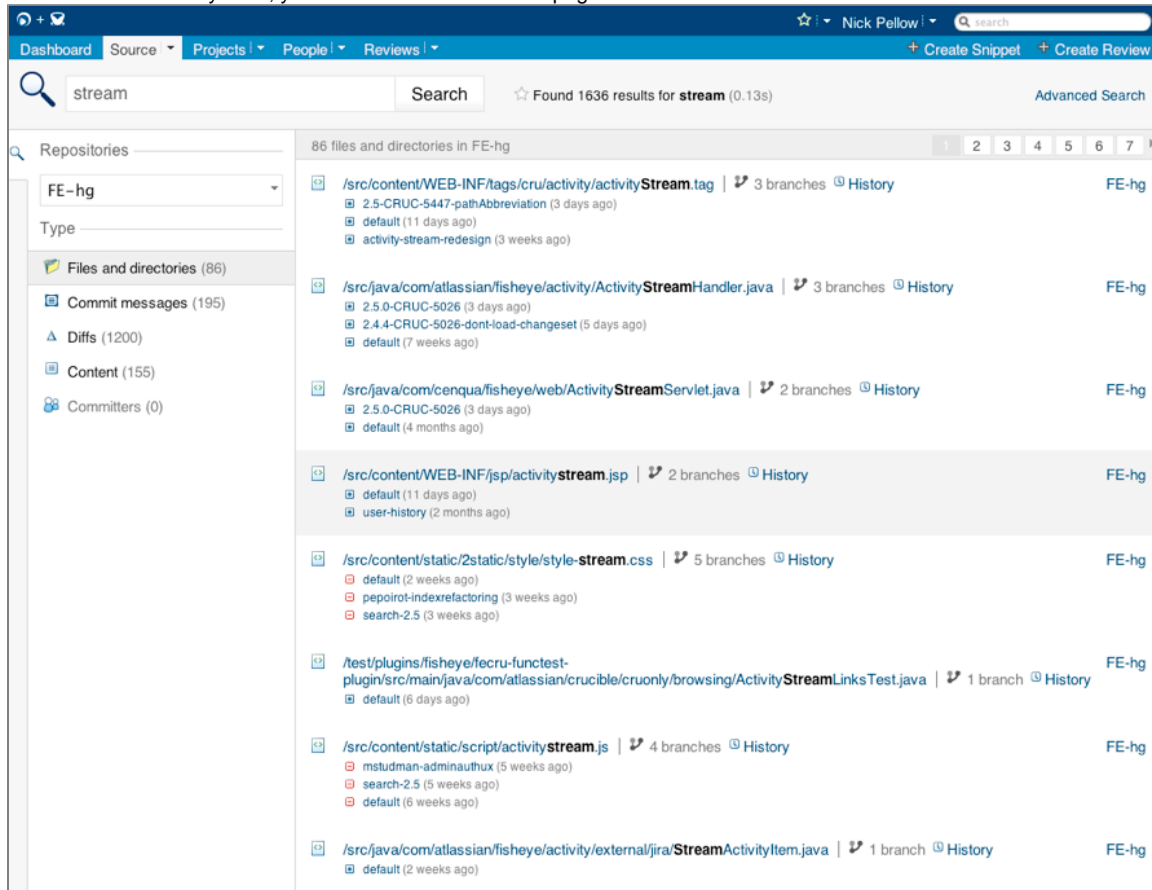


## Quick Search

To use this search, enter your search term in the **'Search'** box in the top right hand corner of the FishEye screens and hit the <return> key. If you are in the context of a repository, your search will be restricted by that repository.

*Screenshot: Quick Search Box*

Once the <return> key is hit, you will see a search results page similar to:



Results are split into 5 different search categories:

- **Files and Directories** : any file name or directory name, ever committed to your SCM
- **Changeset Comments** : all commit messages
- **Diffs** : both added and removed lines of source
- **Content** : contents of files at their latest revisions (HEAD)
- **Committers** : a committer name - someone who has committed to the SCM

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

### Restricting searches by prefixing database field

You can search matches against a given field, by using a search in this format:

```
committer:anna
```

This would return all results from the **committer** field that match the string 'anna'.

Searches can be specifically restricted to the following available fields:

- file
- comment
- diff
- content
- committer

### Searching within directories

Quick Search supports [AntGlobs](#) to make searching within a specific directory easy.

The following query: `/src/**/*.xml` will return all files with a .xml suffix that are below both a src and a gwt directory.




e.g. `src/java/com/atlassian/fecru/gwt/FecruCore.gwt.xml` but not `src/java/com/atlassian/fecru/ApplicationContext.xml`

### Searching for discrete strings

To search for a specific string that appears discretely, search with quotation marks, as in the following example:

"Code Monkey"

This search will only return results that have both terms present. The example above would not return "Node Monkey", "Code Web Monkey".

 Note that quick searches do not take case into account.

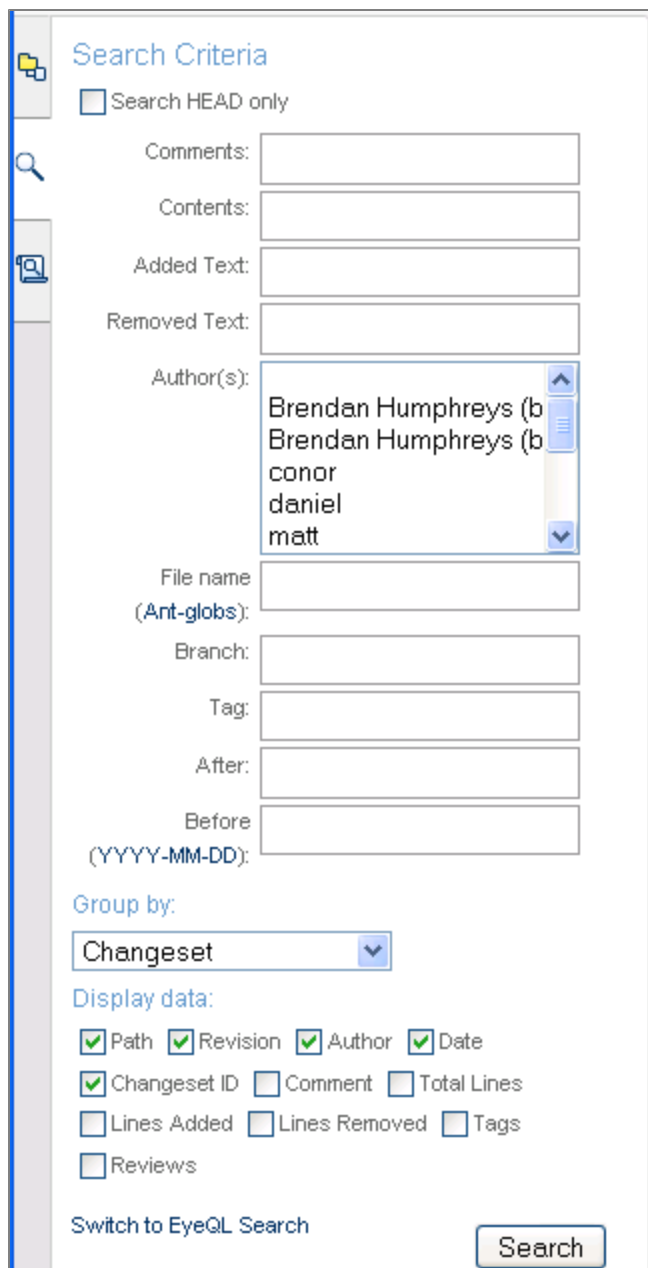
#### A note about searching multiple repositories:

Cross-repository searching has a 100 repository limitation on searches, to prevent it from becoming unresponsive and consuming server resources on FishEye instances that have large numbers of repositories. This means that cross-repository quicksearch is not an exhaustive search, and may not include all repositories in a large Fisheye instance. For exhaustive searches, you should limit your search to a particular repository, if possible.

### Advanced Search

To access the advanced search screen, click the **'Search'** sub-tab when [browsing a repository](#), or the link directly on the Quick Search page.

*Screenshot: FishEye Simple Search panel*



**Search Criteria**

☐ Search HEAD only

Comments:

Contents:

Added Text:

Removed Text:

Author(s): 

- Brendan Humphreys (b)
- Brendan Humphreys (b)
- conor
- daniel
- matt

File name

(Ant-globs):

Branch:

Tag:

After:

Before

(YYYY-MM-DD):

Group by:

Display data:

☒ Path ☒ Revision ☒ Author ☒ Date

☒ Changeset ID ☐ Comment ☐ Total Lines

☐ Lines Added ☐ Lines Removed ☐ Tags

☐ Reviews

[Switch to EyeQL Search](#)

You can use this search to retrieve a list of changesets/files using the filters that are available. You can search using one or more of the following filters:

- Commit comments
- Contents of files — files must be non-binary, less than 5MB, and for svn repositories on trunk only. NB: only HEAD/tip revisions are searched. For older revisions use added/removed text search.
- Added text/removed text
- File names/paths — [Antglobs](#) can be used
- Authors
- Branch names
- Tag names
- Revision dates before and after.

Results can be grouped by the following:

- Changeset
- Revision
- File
- Directory.

You can choose to include any or all of the following fields in the results:

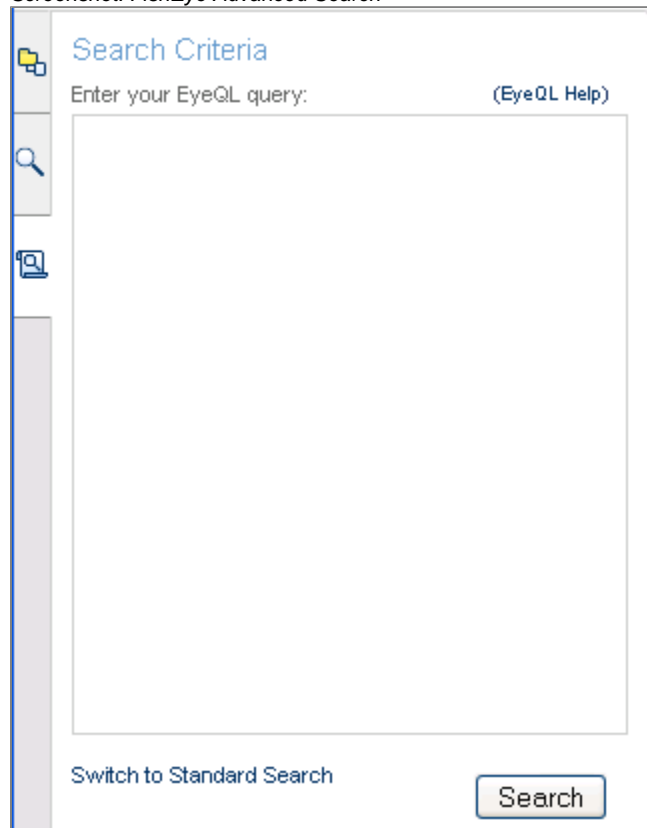
- Path
- Revision
- Author
- Date
- Comment
- Changeset
- Total lines
- Total lines added
- Total lines removed
- Tags
- Reviews *(if you are using Crucible)*.

The results are shown in a tabular format. You can link to the search results, and you can save the results to a CSV file.

### Advanced Search - EyeQL

In some circumstances the results of a simple search may not be specific enough. Using the advanced search, you can create your own complex searches using FishEye's powerful query language called [EyeQL](#).

Screenshot: FishEye Advanced Search



The screenshot shows the 'Search Criteria' window in FishEye. It features a sidebar with icons for folders, search, and a document. The main area has a title 'Search Criteria' and a text input field labeled 'Enter your EyeQL query:' with a '(EyeQL Help)' link. Below the input field is a 'Switch to Standard Search' link and a 'Search' button.

To do an advanced search, click the '**Switch to [EyeQL Search](#)**' link found at the bottom of the Simple Search screen.



#### Use Simple Search to build your basic query first

You can flick between Simple and Advanced Search. The [EyeQL](#) statement will contain the basics of the statement and you can adapt it as required.

## Viewing a File

You can [search](#) or [browse](#) your repositories in FishEye to view a specific file. FishEye provides information about the file history, file content and activity related to the file.

To view a file,

1. Search for a file or browse through a repository to find the file.
2. Click the file name. The file will be displayed, showing the revision history. See screenshot below.
3. View information about the file:
  - **'Activity'** tab — View the changelog for the file. This is the commits, reviews and issues (requires JIRA) activity related to the file. See [Viewing the Changelog](#) for more information.
  - **'Revisions'** tab — View the history of revisions for the file. See [Viewing a File History](#) for more information.
  - **'Users'** tab — View the commit history of the users that have committed changes to the file. See [Viewing People's Statistics](#) for more information.
  - **'Reports'** tab — View activity charts for the file. See [FishEye Charts](#) for more information.
  - **'Source'** tab — View the annotated file contents. The raw file can be downloaded via this tab. See [Viewing File Content](#) for more information.

*Screenshot: Viewing a File (Revisions)*

The screenshot shows the FishEye web interface for viewing the revision history of a file. The breadcrumb path is 'FE / trunk build.xml'. The file is located in the 'trunk' branch, and there are 2.3 versions. The 'Revisions' tab is selected, showing a list of 911 revisions. The current view shows the last four revisions:

Date	User	Revision ID	Commit Message	Annotations	Diff
06 Sep	Nick Pellow	107905	CRUC-4130: removing jwebunit dependency from funtests. refactored how browserbased tests get selected for running.	+2	-0
06 Sep	Conor MacNeill	107897	Revert name of target	+1	-1
06 Sep	Conor MacNeill	107889	CRUC-3755: Validate Crucible Only using two methods	+8	-1
05 Sep	Conor MacNeill	107863	Remove old dross from build - optimising away optimiseit	+0	-7

The left sidebar shows a file tree structure with folders like 'branches/', 'buildnumber/', 'tags/', 'trunk/', '.idea/', '.settings/', 'admin/', 'artwork/', 'build-dependencies/', 'bundled-plugins/', 'contrib/', 'dbdriver/', 'dependencies/', 'doc/', 'etc/', 'fe-jar/', 'fecru-applinks-webitem-plugin/', 'fecru-gadgets-plugin/', 'fecru-rest-plugin/', 'lib/', 'maven-dependencies/', 'plugins/', 'processutils/', 'products/', 'salplugin/', 'selenium/', and 'sonar/'.

#### Related Topics

- [Viewing the Changelog](#)
- [Viewing a File History](#)
- [Viewing File Content](#)

## Viewing the Changelog


The changelog is a record of the commits, reviews and issues for a repository, branch, directory or file. You can view the recent activity in the changelog when [browsing a repository/branch/directory](#) or [viewing a file](#). This information is displayed in an "activity stream" on the relevant screen.

#### On this page:


- [Viewing the Changelog Activity](#)
- [Filtering Commit Activity for the Changelog](#)
- [Watching the Changelog Activity](#)

#### Viewing the Changelog Activity

To view the changelog activity for a repository/branch/directory or file,

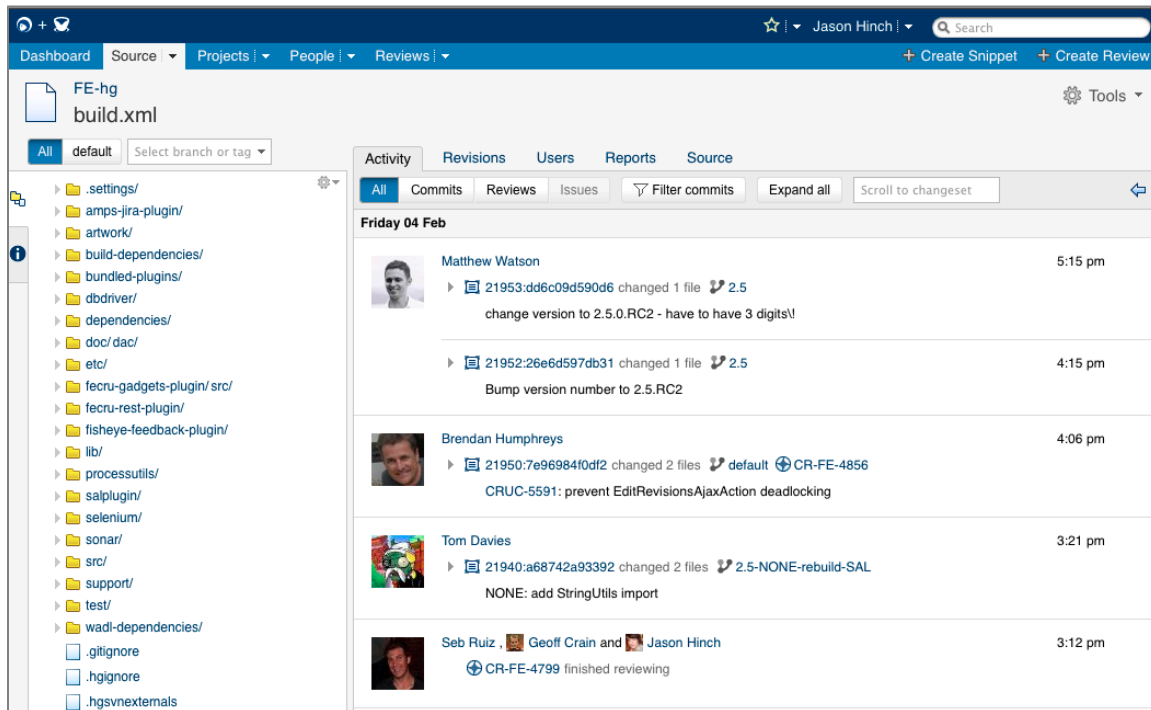
1. Browse to the desired repository/branch/directory or view the desired file.
2. (optional) Select the **branch** or **tag** of the repository that you want to view information for, using the branch/tag selector (non-ClearCase repositories only). Only information related to the selected branch/tag will be displayed, when browsing your repositories.
  - Click the tab for the default branch (e.g. 'trunk') to view only information related to it. The default branch (e.g. 'trunk') is determined by FishEye.
  - Click the  icon and enter the desired branch/tag, to view information related to the branch/tag.
  - Click the 'All' tab to view information related to all branches/tags.

*Screenshot: Branch/Tag selector*


3. Click the **'Activity'** tab. The recent changelog activity of your repository/branch/directory or file will be displayed.
4. Use the following functions in the **'Activity'** tab to filter/show and navigate through the changelog activity:
  - **All** tab — Click to show commits, reviews<sup>1</sup> and JIRA issues<sup>2</sup> activity in the activity stream. This is the default view.
  - **Commits** tab — Click to show only commits in the activity stream.
  - **Reviews**<sup>1</sup> tab — Click to show only review activity in the activity stream. This tab will not be displayed unless you have integrated FishEye with Crucible<sup>1</sup>.
  - **Issues**<sup>2</sup> tab — Click to show only issue activity in the activity stream. This tab will not be displayed unless you have integrated FishEye with JIRA<sup>2</sup>.  
*This tab is currently only enabled when viewing a repository, due to technical constraints.*
  - **Filter commits** (see [below](#)) — See [Filtering Commit Activity for the Changelog](#) for more information.
  - **Show Revisions** — Click to expand every changeset in the activity stream to show all modified files related to the changesets. Click this button again to collapse the changesets.
  - **Scroll to Changeset** — Enter a changeset ID (e.g. 107856) and press Enter on your keyboard to scroll to the relevant changeset in the activity stream.

<sup>1</sup> Requires Crucible  
<sup>2</sup> Requires JIRA

*Screenshot: Viewing the changelog activity for a file*



The screenshot displays the FishEye web interface for a repository named 'FE-hg'. The left sidebar shows a file tree with 'build.xml' selected. The top navigation bar includes 'Dashboard', 'Source', 'Projects', 'People', and 'Reviews'. The main content area has tabs for 'Activity', 'Revisions', 'Users', 'Reports', and 'Source'. The 'Activity' tab is active, showing a list of commits. Each commit entry includes a user profile picture, name, commit ID, a brief description of changes, and the time. For example, Matthew Watson's commit 21953:dd6c09d590d6 changed 1 file and updated the version to 2.5.0.RC2.

### Filtering Commit Activity for the Changelog

You can filter the commits that are displayed in the activity stream, i.e. Commits in the **'All'** and **'Commits'** sub-tabs under the **'Activity'** tab.

Note, you cannot use the commits filter to filter reviews or issues displayed in the activity stream. If you apply a commits filter to your activity stream, the following will occur:

- The 'Issues' tab will be disabled.

- The 'Reviews' tab will be enabled, but the commits filter will be disabled if you view the reviews activity (i.e. reviews will not be filtered).

#### To filter commit activity,

1. View the **'Activity'** tab for the desired repository/branch/directory or file.
2. Click either the **'All'** or **'Commits'** sub-tab. The relevant activity will be displayed.
3. Click the **'Filter commits'** button. The filter fields will be displayed.
4. Enter your criteria for the commits to be displayed:
  - **'Committer'** — Shows only changesets checked in by the given committer/author.
  - **'Log Comment'** — Shows only changesets where the commit comment matches the given text.
  - **'File Extension'** — Shows only changesets that contain files with the specified file extension.
  - **'File Name'** — Shows only changesets that contain a given file.
  - **'Start Date'** — Shows only changesets created on or after that date. Must be of the form YYYY-MM-DDTHH:mm:ss, YYYY-MM-DD, YYYY-MM or YYYY (you can use '/' instead of '-').
  - **'End Date'** — Shows only changesets created on or before that date. Must be of the form YYYY-MM-DDTHH:mm:ss, YYYY-MM-DD, YYYY-MM or YYYY (you can use '/' instead of '-').
5. Click the **'Apply'** button to apply the filter to the activity displayed.
  - If you want to clear the filter, click the **'Clear'** link. This link will only display when the filter is active. You can also click the **'Filter commits'** button again. The filter fields will be hidden and the filter removed.

#### Screenshot: Using the Filter

The screenshot shows the 'Filter commits' dialog in the FishEye/Crucible interface. The dialog has a top bar with tabs: Activity, Revisions, Users, Reports, and Source. Under the 'Activity' tab, there are sub-tabs: All, Commits, Reviews, and Issues. The 'Filter commits' button is highlighted. Below the tabs, there are input fields for Committer, File Extension, Start Date, Log Comment, File Name, and End Date. An 'Apply' button is at the bottom right.

### Watching the Changelog Activity

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

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

#### To watch an activity stream,


1. Navigate to the activity stream that you want to watch.
2. Click the **'Tools'** menu and click **'Watch'**. The page will reload and a watch will be set up for the activity stream (the watch icon will be coloured, not grey).
  - If you want to remove the watch, navigate the activity stream, click the **'Tools'** menu and click **'Watch'**. The watch will be removed (the watch icon will be coloured, not grey).

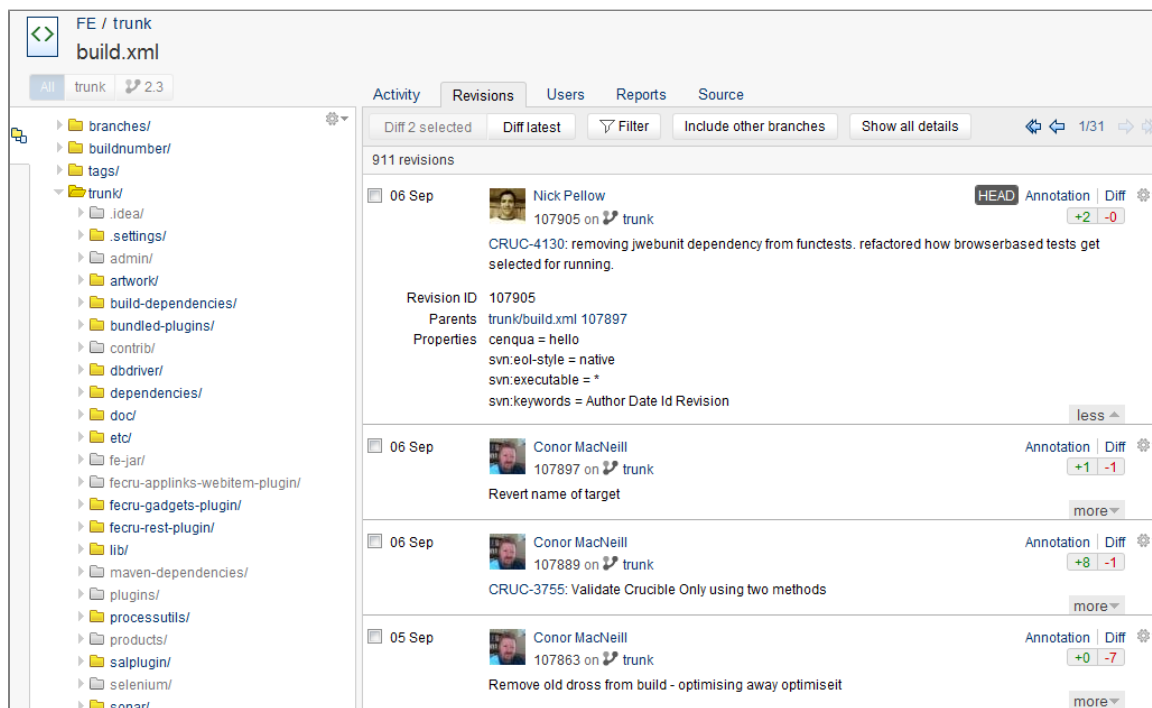
You can also remove watches via your user profile.

### Viewing a File History

You can view a specific file when [browsing a repository](#). This allows you to see information about the file, including the history of file revisions.

#### To view the history of revisions for a file,

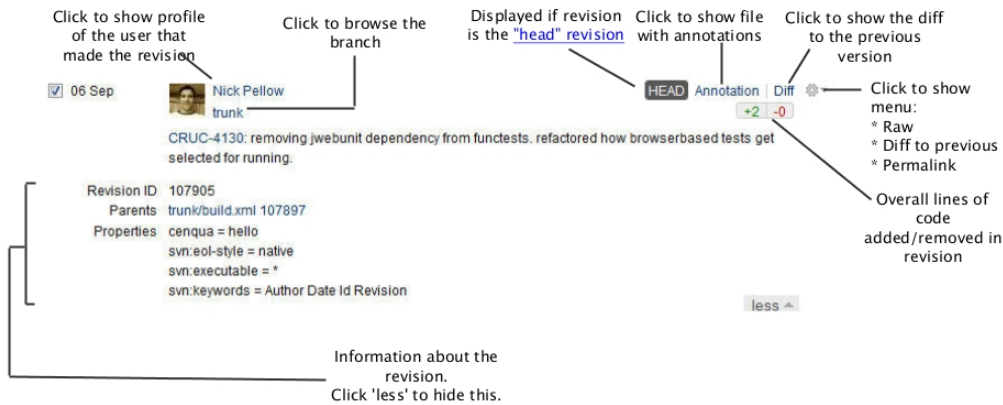
1. Log into FishEye/Crucible. The Dashboard will be displayed.
2. Search for the desired file or browse to it as follows:
  - a. Click the '**Source**' tab in the header at the top of your screen. The list of repositories set up in your FishEye instance will be displayed.
  - b. Click the name of the repository that your file is located in.
  - c. Browse to the file using the tree in the left menu and click the file name.
3. Click the '**Revisions**' tab. The history of revisions for the file will be displayed. See the '**File Revisions**' screenshot below.
  - Tick the checkboxes next to two file revision and click '**Diff 2 selected**' to view the diff of the two selected file revisions. Click '**Diff latest**' to view the diff of the two most recent file revisions.
  - Click '**Filter**' to view the file filter. Enter the desired fields to filter the file history results on.
  - Click '**Include other branches**' to include revisions of the same file on other branches.
  -  A file can have many physical paths, all of which relate to the same filename in your project structure, or repository's logical structure. This applies to Subversion's branching and tagging directory structure in particular.
  - Click '**Show all details**' to expand all file revisions to show additional information including the revision ID, parents and properties.
  - See the '**Overview of a File Revision**' diagram below for information about the individual revisions.

Screenshot: File Revisions


The screenshot displays the FishEye/SourceForge interface for the file 'FE / trunk build.xml'. The left sidebar shows a directory tree with 'trunk' selected. The main panel is titled 'Activity Revisions Users Reports Source' and shows a list of 911 revisions. The top of the main panel has tabs for 'Diff 2 selected', 'Diff latest', 'Filter', 'Include other branches', and 'Show all details'. The revision list shows the following details:

Revision ID	Author	Date	Message	Parents	Properties
107905	Nick Pellow	06 Sep	CRUC-4130: removing jwebunit dependency from functestests. refactored how browserbased tests get selected for running.	trunk/build.xml 107897	cenqua = hello svn:eol-style = native svn:executable = * svn:keywords = Author Date Id Revision
107897	Conor MacNeill	06 Sep	Revert name of target		
107889	Conor MacNeill	06 Sep	CRUC-3755: Validate Crucible Only using two methods		
107863	Conor MacNeill	05 Sep	Remove old dross from build - optimising away optimiseit		

Diagram: Overview of a File Revision



## Viewing File Content

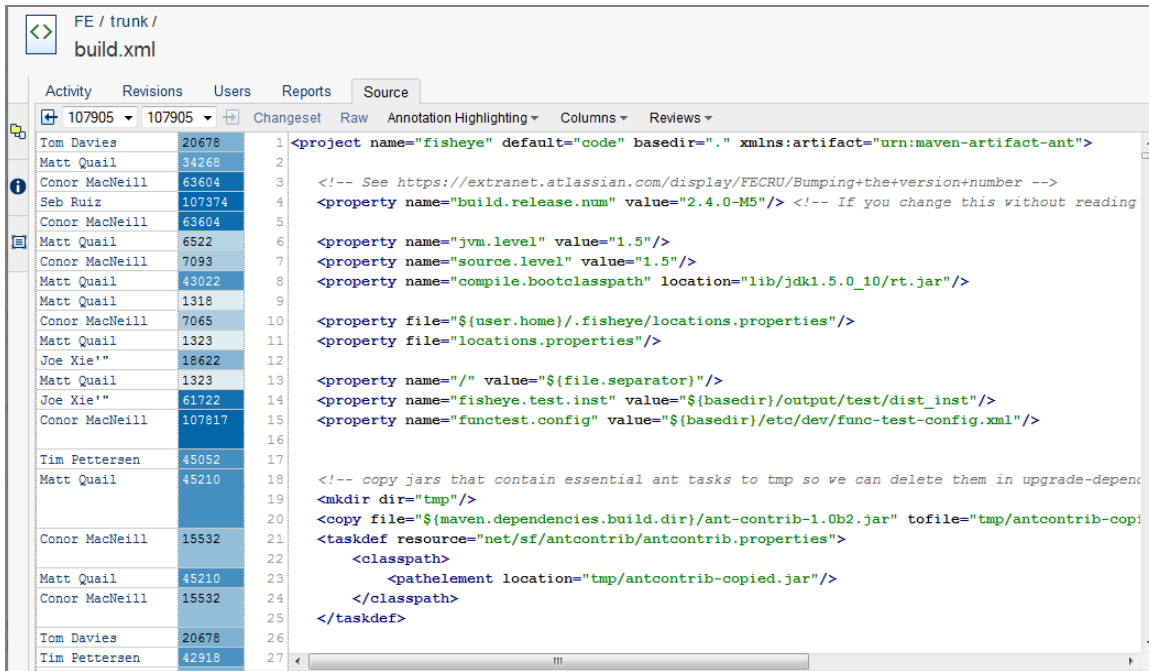
You can [search](#) or [browse](#) your repositories in FishEye to view a specific file. FishEye allows you to view and download the source code for the file. You can also view diffs between different revisions of the file and annotations.

To view the source code for a file,

1. Search for a file or browse through a repository to find the file.
2. Click the file name. The file will be displayed, showing the revision history.
3. Click the **'Source'** tab. The source code for the file will be displayed.
  - Select the revision numbers (e.g. '107905') from the two revision dropdowns to [display the diff](#) between the two revisions. By default, the latest revision of the source code is displayed (without any diff).
  - Click the **'Changeset'** link to view the changeset that the revision was a part of.
  - Click the **'Raw'** link to download the raw source code for the file.
  - Click the **'Annotation Highlighting'** dropdown and select **'Age'**, **'Author'** or **'None'** to colour the annotations by age, author or remove highlighting respectively. The highlights are displayed over the revision numbers, next to the authors.
  - Click the **'Columns'** dropdown and select the columns to display: **'Author'**, **'Revision'** and **'Line Number'**.
  - Click the **'Reviews'** dropdown and select **'Create Review'** to create a Crucible review from the file.

Screenshot: Viewing a File (Source)





## Using Side by Side Diff View

This page contains instructions for FishEye's innovative 'side by side diff' view. This is an assistive source code viewing mode where you can see how a file's content has changed, compared on the left and right hand sides of the screen.

On this page:

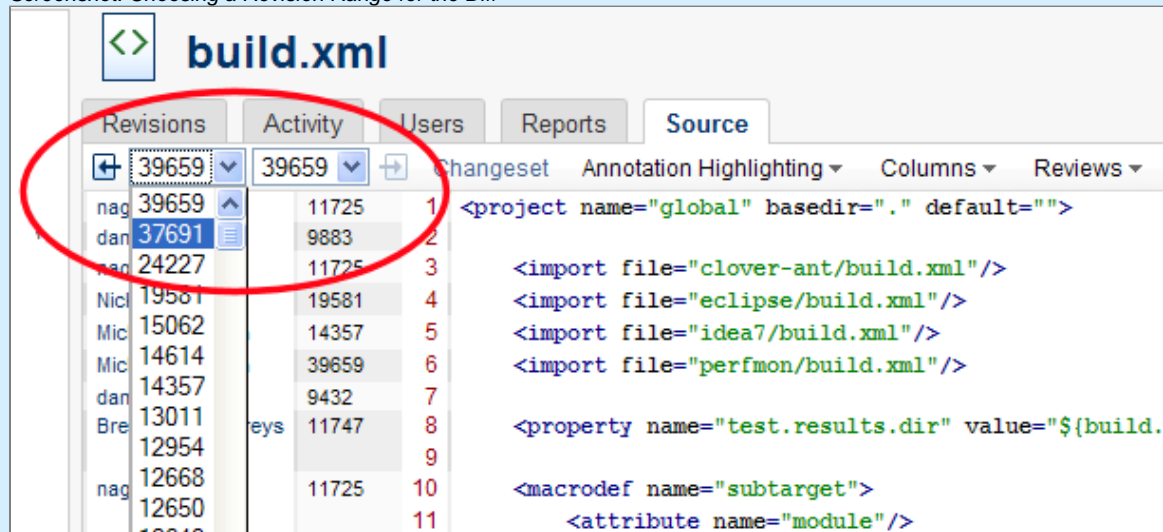
- Opening side by side diff view
- Understanding side by side diffs
- Alternative ways to open side by side diffs
  - From the FishEye Dashboard
  - From the Revisions History view

### Opening side by side diff view

To open FishEye's side by side diff view,

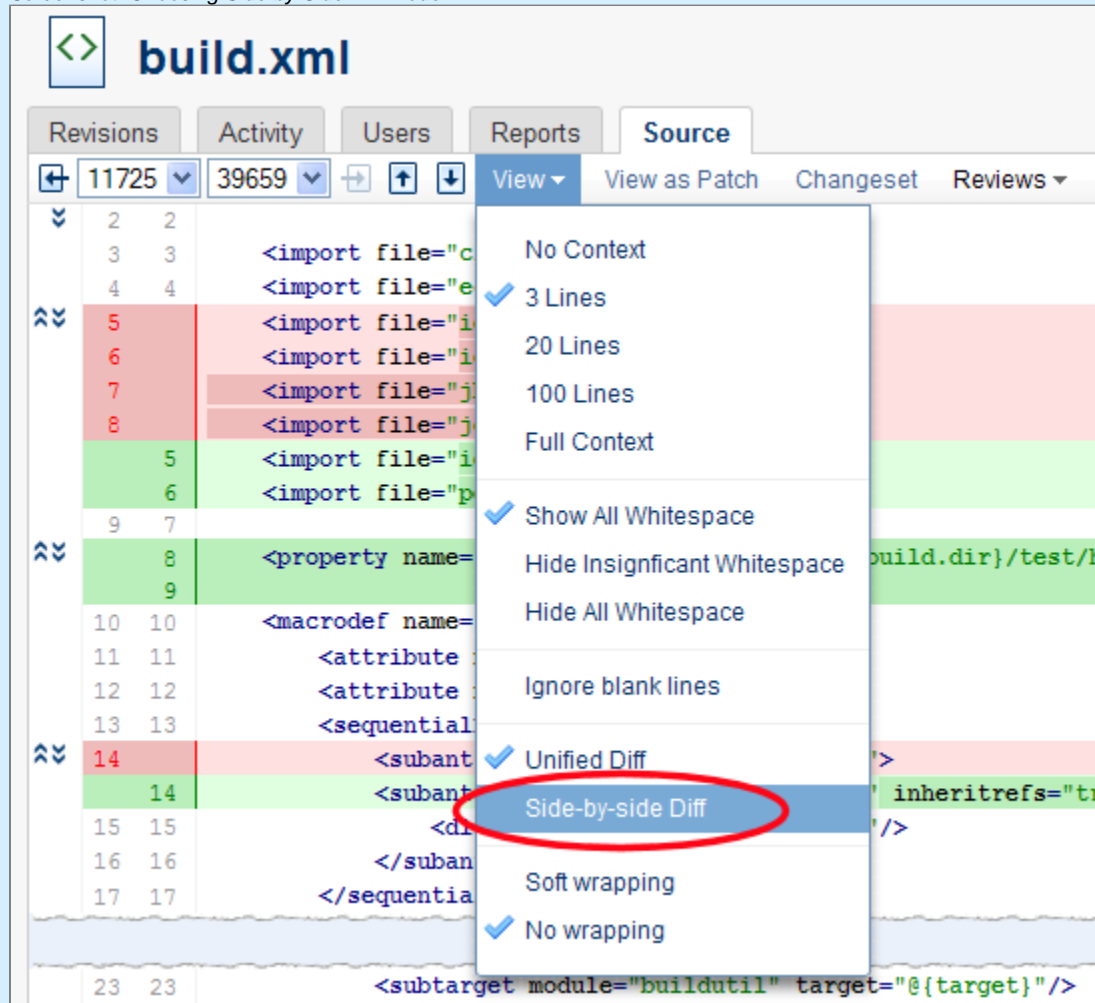
1. Open the source code view for the file in question.
2. Select a range of revisions to compare between.

Screenshot: Choosing a Revision Range for the Diff



3. Click the 'View' menu, then select 'Side by Side Diff'.

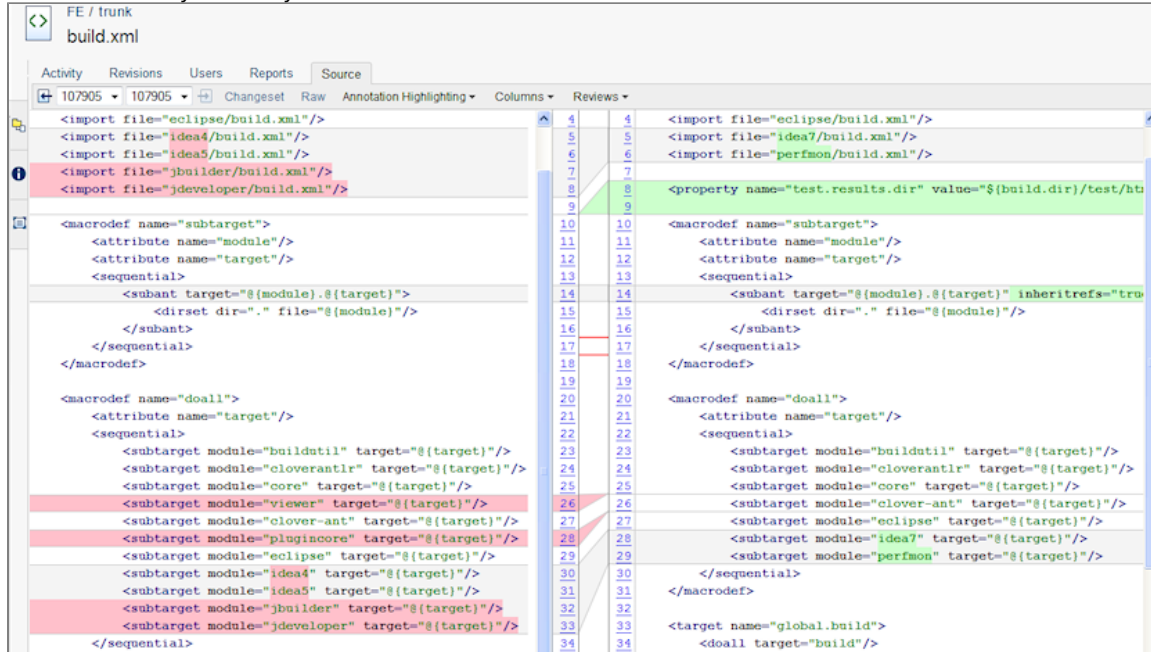
Screenshot: Choosing Side by Side Diff Mode



4. **Side by side diff view** opens. The left and right panes can scroll independently, and the view stays anchored around a central

point. Colour coding is used to illustrate where lines have been added (green highlights) and where lines have been removed (red highlights). Grey highlights indicate that a line's internal content has changed. Each addition or deletion is linked to the opposite window by a coloured triangle that links to the location of that change in the counterpart file.

Screenshot: FishEye's Side by Side Diff View

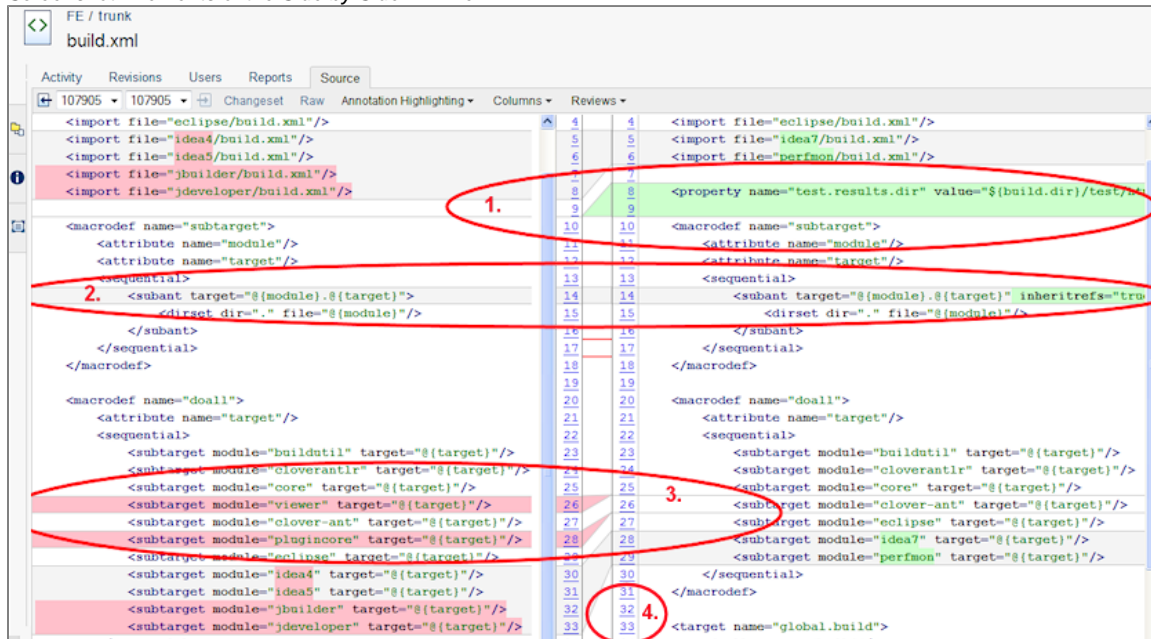


### Understanding side by side diffs

Features of the side by side diff screen are referenced in the annotated screenshot below.

1. Added lines are highlighted green, displayed in the right hand pane.
2. Edited lines are highlighted grey, with minor sections highlighted red and green to show deletions and additions.
3. Deleted lines are highlighted red, displayed in the left hand pane.
4. Gutter line numbers are permanent links ("permalinks") that can be saved and sent to colleagues. When they open those links, the view will automatically open in side by side diff mode.

Screenshot: Elements of the Side by Side Diff View



**Alternative ways to open side by side diffs**

From the FishEye Dashboard

You can also open side by side diffs from the Dashboard screens, by clicking the '**Delta**' triangle icon next to an item when it appears in the stream of events. This will open the file in the diff view. If you have currently selected side by side diff as the viewing mode, then the diff will automatically be displayed in that mode. If not, you can select side by side diff from the '**View**' menu.

From the Revisions History view

When in the revisions view, you can show a diff by checking the boxes next to two revisions, then clicking the '**Diff**' button in the top control bar. If you have currently selected side by side diff as the viewing mode, then the diff will automatically be displayed in that mode. If not, you can select side by side diff from the '**View**' menu.

You can also launch into a diff of the latest revision and the second most recent by clicking '**Latest Diff**' in the top control bar.

## FishEye Charts

When [browsing a repository](#), the '**Reports**' sub-tab in the right-hand column displays graphical information about the lines of code (LOC) committed to the repository, over time. The following options are available:

- [Charts](#)
- [Code Metrics](#)

### Charts

You can view chart information controlled by various criteria. Simply select the desired constraints and click the '**Apply**' button.

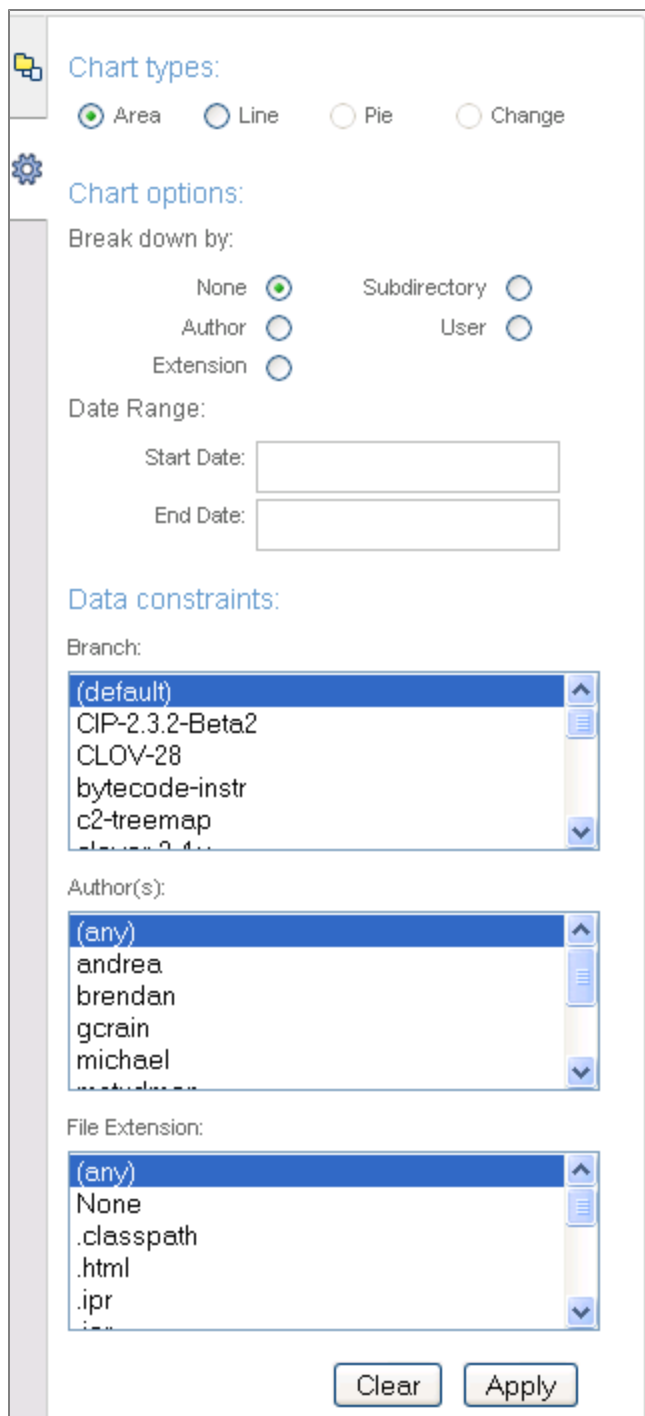
Setting	Explanation	Values	Default
<b>Branch</b>	Limits the chart to the selected branch, defined as the repository's trunk (unless the directory displayed is a branch directory).	Any branch from the current repository.	Displays the trunk, unless the current directory has been identified as a branch.
<b>Author</b>	Limits the chart to show specific author(s).	Any author configured in the system.	All
<b>Extension</b>	Limits the chart to show specific file type(s).	Any file extension; e.g. ' <b>.java</b> '.	All
<b>Chart type</b>	Changes the chart's presentation.	Area, line, pie or change* chart.	Area
<b>Show by</b>	Secondary data by which to refine the chart.	Subdirectory, author or extension.	None
<b>Start Date</b>	Date of the earliest data to show.	Date in format YYYY-MM-DD.	None (show all)
<b>End Date</b>	Date of the latest data to show.	Date in format YYYY-MM-DD.	None (show all)
<b>Y Axis</b>	Choosing ' <b>Tight</b> ' zooms in the charts view to the limits of the range that the data covers. Only applies to Line charts.	Full or Tight	Tight
<b>Sub Directories</b>	Limit the chart to a folder under the current branch. Files in the current directory are represented by an element labelled ' <b>.(this dir)</b> '.	A single folder.	None (show all)



\*The '**change**' chart displays the change in lines of code, for a specific date range, expressed as a line graph. For example, if the lines of code at the start date is 100, the start point will be zero and the rest of the graph shifted by 100 lines.

To return to the default chart settings, click the '**Clear**' button.

*Screenshot: FishEye custom chart settings*



**Chart types:**

☒ Area ☐ Line ☐ Pie ☐ Change

**Chart options:**

Break down by:

None ☒ Subdirectory ☐  
Author ☐ User ☐  
Extension ☐

Date Range:

Start Date:   
End Date:

**Data constraints:**

Branch:

(default)    
CIP-2.3.2-Beta2   
CLOV-28  
bytecode-instr  
c2-treemap  
c2-treemap

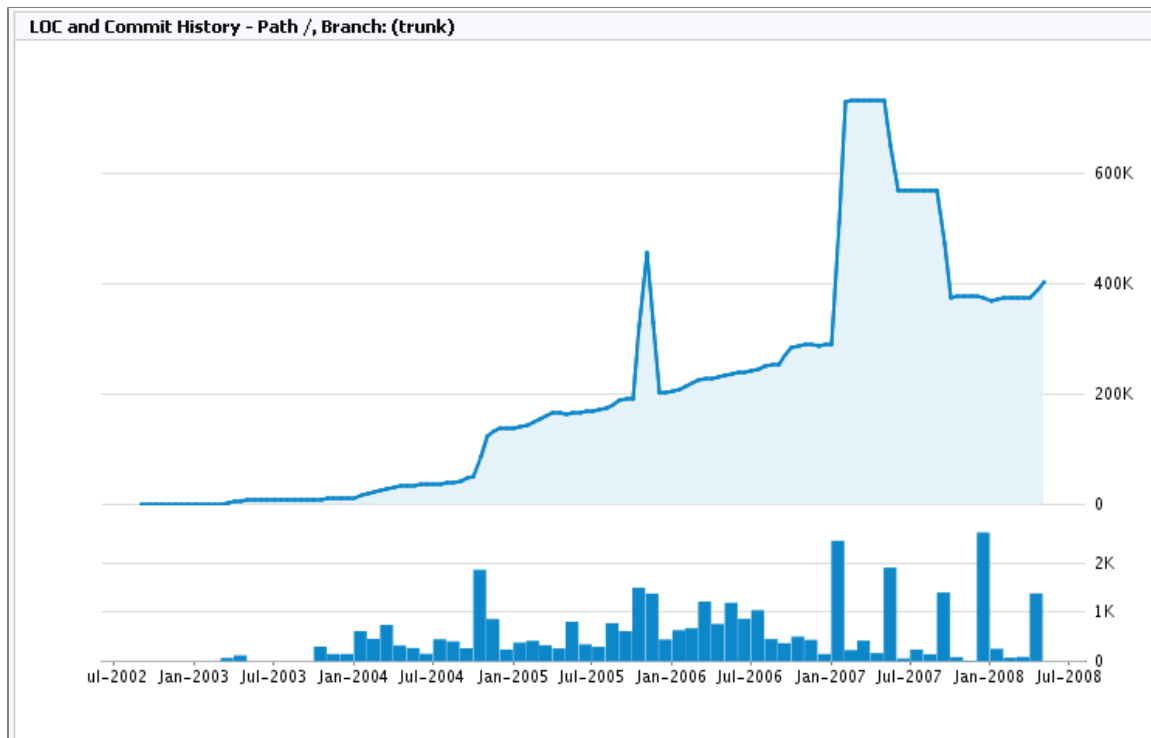
Author(s):

(any)    
andrea   
brendan  
gcrain  
michael  
michael

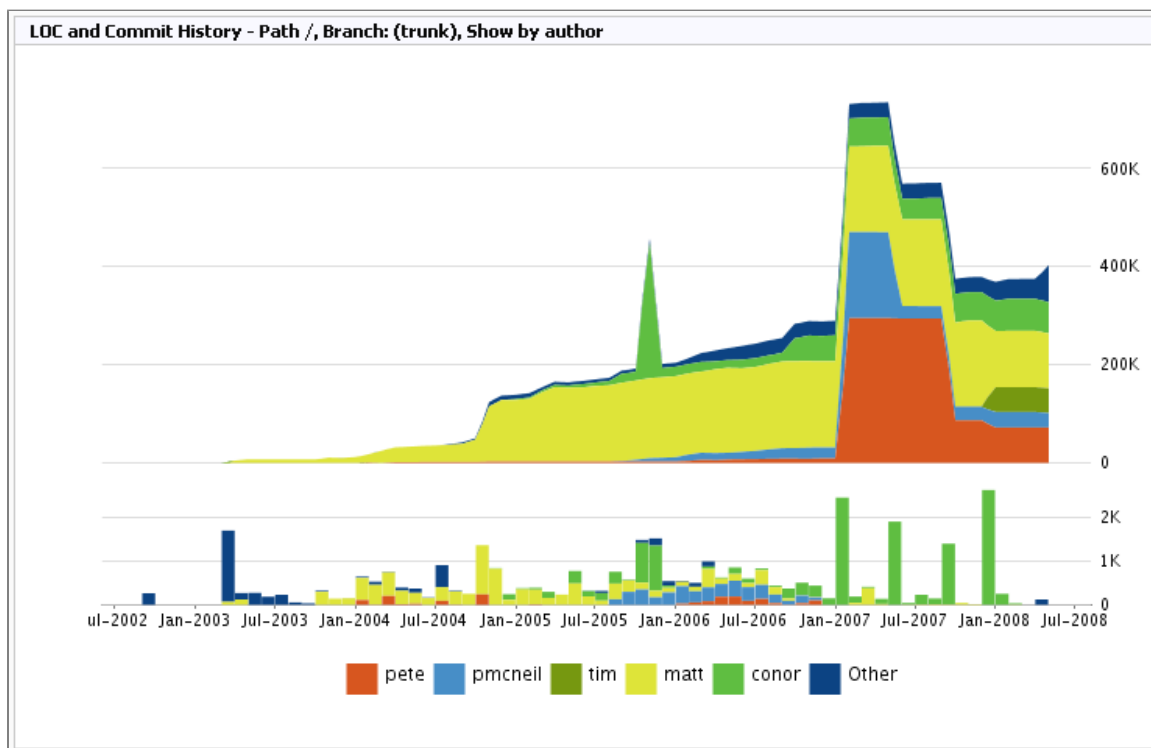
File Extension:

(any)    
None   
.classpath  
.html  
.ipr  
.ipr

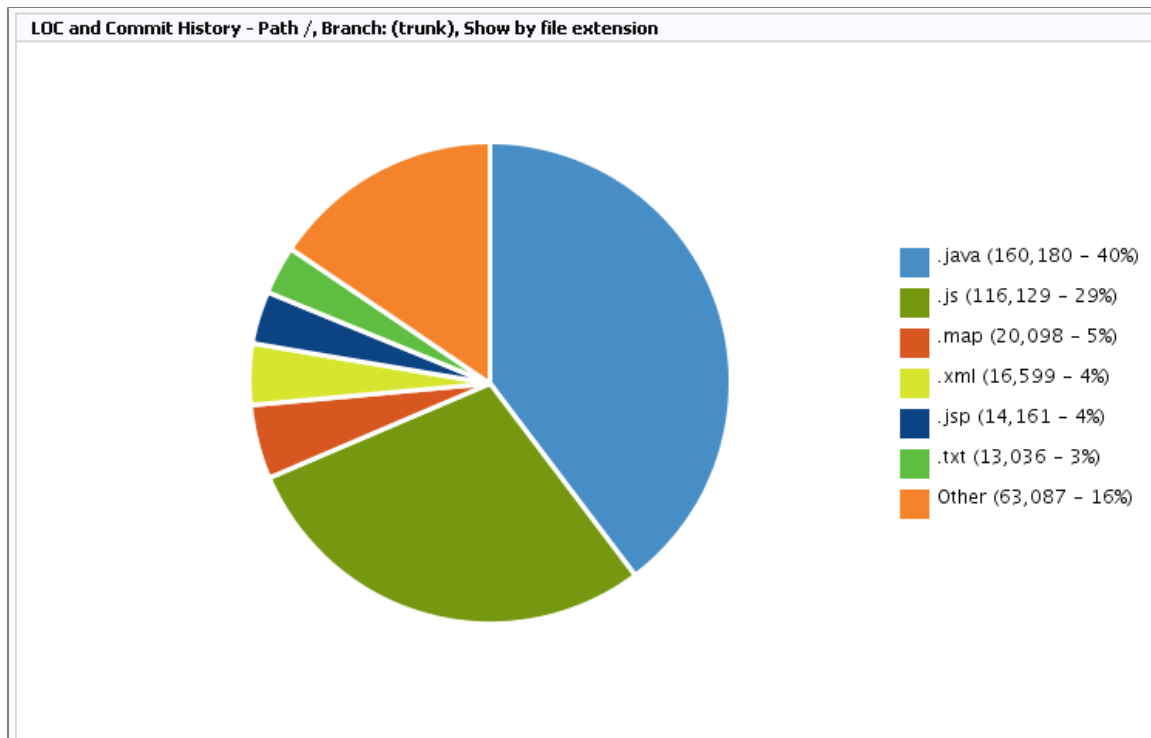
Screenshot: FishEye per-author LOC chart



Screenshot: FishEye per-author LOC chart showing multiple authors



Screenshot: FishEye LOC chart by file extension



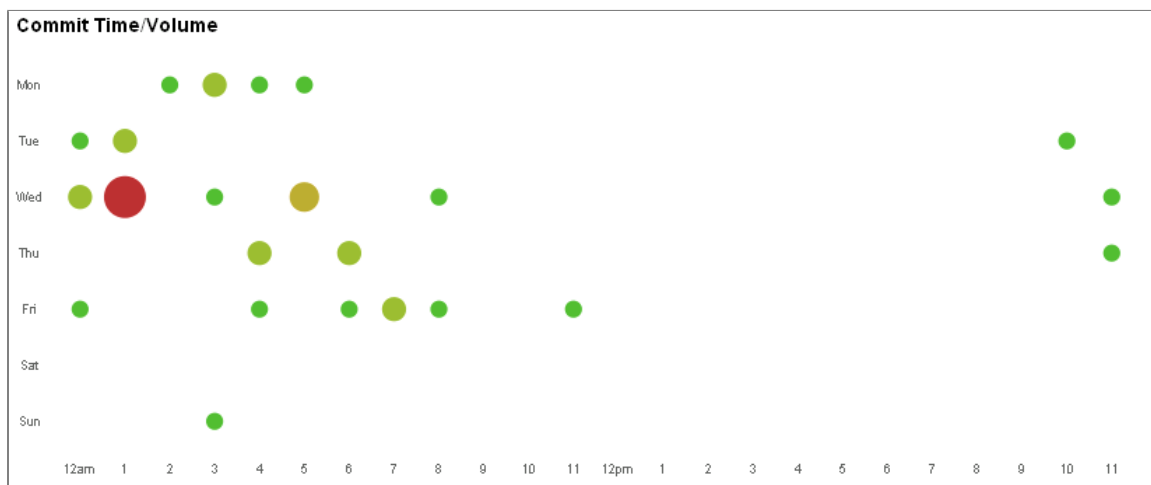
#### Per-Author Lines of Code Statistics

You can view per-author statistics for lines of code as a chart. This allows you to see how many lines of code were contributed to your project by each author, over time. You can easily view this information on the charts page. Note, if you are upgrading from a previous version of FishEye, you will need to re-index the repository in order to show the per-author information.

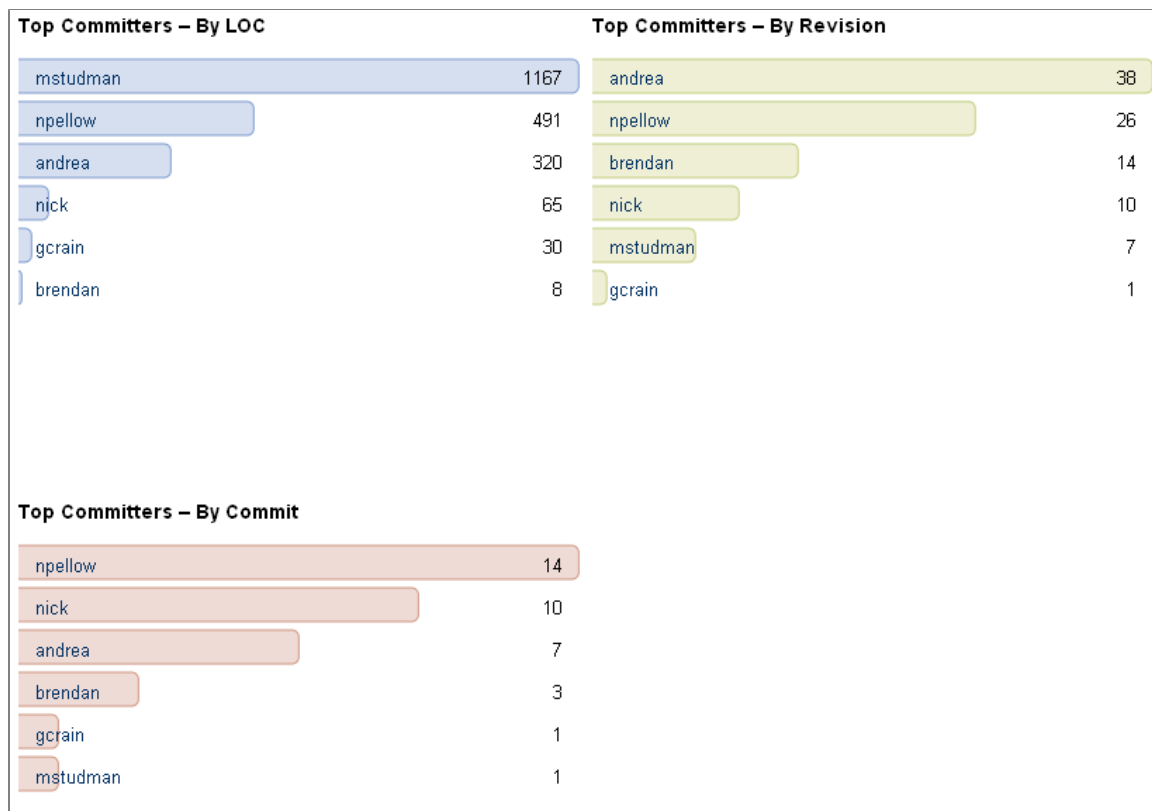
#### Code Metrics

A number of built-in reports are also provided:

[Screenshot: Commit Time/Volume](#)



[Screenshot: Top Committers](#)



## Using Favourites

This page contains instructions on using the **'Favourites'** feature in FishEye to select, view and manage items of interest.

On this page:

- [Favourites Overview](#)
- [Adding Items 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](#)
- [Viewing Your Favourite Items](#)
- [Renaming an Item In Your Favourites](#)
- [Removing an Item From Your Favourites](#)

### Favourites Overview

FishEye allows you to tag certain items as your favourites. You can select changesets, files, people and repositories to be added to your favourites. Once your favourites list is created, you can view it or see a stream of all activity relating to your favourite items. We suggest you select items that you are currently working on as favourites, to create a more relevant personalised view.



If you are using Crucible, you can also add [code reviews](#) to your favourites.

### Adding Items to Your Favourites

To add an item to your favourites, follow one of the steps below.

#### Adding a Person to Your Favourites

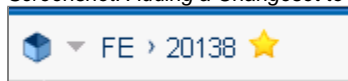
To add a person to your favourites, simply hold the mouse cursor over their username wherever it appears. The User Hover menu will appear. In the User Hover menu, click **'Follow'**. This will add the person to your favourites.

#### 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, 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, 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.

### Adding a Repository to Your Favourites

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

*Screenshot: Adding a Repository to Your Favourites*

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

### Viewing Your Favourite Items


To view your favourite items, click '**Dashboard**' tab at the top left of the page and then the '**Favourites**' second level tab, beneath that.

*Screenshot: Viewing Your Favourites*

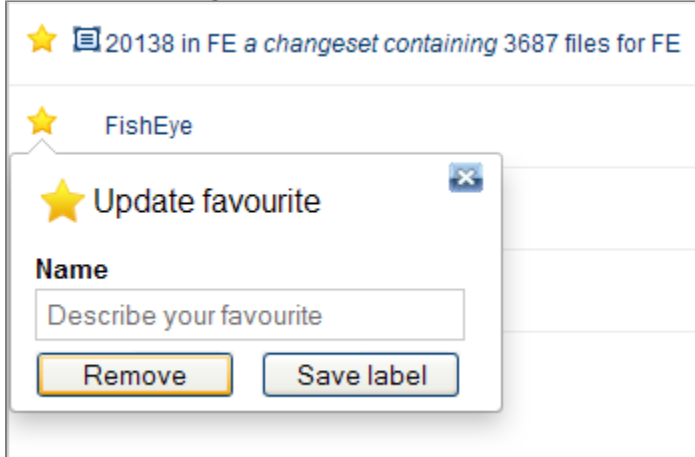
### Renaming an Item In Your Favourites

To rename an item in your favourites, open the Favourites drop-down menu (the gold star icon located at the top centre of the FishEye screen,

next to your user menu). Select the option called **'Manage favourites'**. The Dashboard favourites page opens, showing all of your favourites in the system. To rename any item (changing its favourite display name only — not the name of item itself), simply click the yellow star to the left of its name. A small pop-up menu will appear, the **'Update Favourites'** menu. Type the desired name into the **'Name'** field and click the **'Save label'** button. The label will be updated for the favourites view.

 Due to FE-2348 you cannot currently rename favourites on Directories, Users or Committers

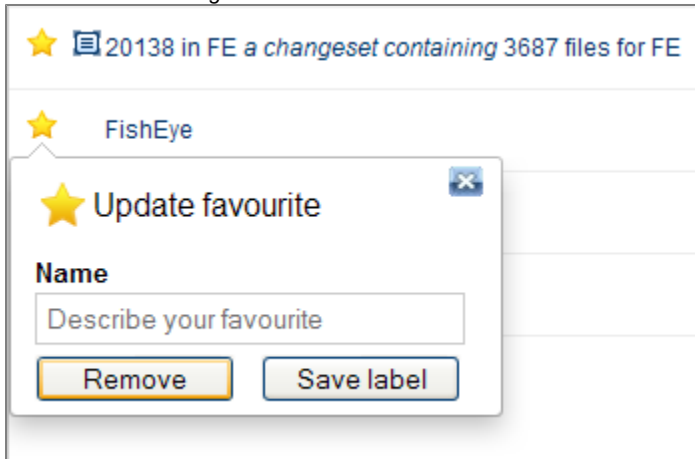
Screenshot: Renaming an Item in Your Favourites



### Removing an Item From Your Favourites

To remove an item from your favourites, open the Favourites drop-down menu (the gold star icon located at the top centre of the FishEye screen, next to your user menu). Select the option called **'Manage favourites'**. The Dashboard favourites page opens, showing all of your favourites in the system. To remove any item, simply click the yellow star to the left of its name. A small pop-up menu will appear, the **'Update Favourites'** menu. Click the **'Remove'** button. The star will turn grey, showing that it has been removed from your favourites.

Screenshot: Removing an Item From Your Favourites



## Copying and Pasting Code from FishEye

FishEye now lets you neatly copy and paste multiple lines of code directly from FishEye to the system clipboard by dragging in the FishEye window to select. Previously, some other information would also be copied from the browser display. Now, only the code itself is copied for your convenience.

### Copying multiple lines of code

To copy multiple lines of code from FishEye:

1. Click and drag in the browser window to select the desired lines.
2. A small temporary button labelled '**copy**' appears.
3. Click the '**copy**' button.
4. The selected code is added to the system clipboard. You can now use your operating system's regular paste function to make use of the code elsewhere.

### Copying a single line of code

To copy part of a line of code from FishEye:

1. Click and drag in the browser window to select the desired characters inside the line of code.
2. Use your operating system's '**copy**' function (Ctrl-C, Command-C or Edit > Copy).
3. The selected code is added to the system clipboard. You can now use your operating system's regular paste function to make use of the code elsewhere.

Screenshot: Copying Code from FishEye

The screenshot shows the FishEye web interface for a file named `build.xml`. The 'Source' tab is selected, showing the XML content. A yellow 'Copy' button is overlaid on the code. The XML code is as follows:

```
<import file="perfmon/build.xml" />

<property name="test.results.dir" value="${build.dir}/test/html-report"/>

<macrodef name="subtarget">
  <attribute name="module"/>
  <attribute name="target"/>
  <sequential>
    <subant target="@{module}.@{target}" inheritrefs="true" inheritall="true">
      <dirset dir="." file="@{module}"/>
    </subant>
  </sequential>
</macrodef>

<macrodef name="doall">
  <attribute name="target"/>
  <sequential>
```

## Changeset Discussions

Please see the [Crucible documentation](#) for instructions on this feature.

## Viewing People's Statistics

To see charts and activity of everyone who commits code to your FishEye repositories, click the **People** tab at the top of the page. The list of all People appears.

Screenshot: List of all People in FishEye

All Users				
User	Commit History (12 Months)	LoC	Commits	Reviews
Adam Laskowski		0	0	0
Adam Saint-Prix		0	0	0
Adam Stuckey		0	0	0
Adnan Chowdhury		0	0	0
Adrian Hempel		9,532	334	86
Andreas Knecht		23	29	3
Andrew Lui		0	0	10
Andrew Lynch		0	0	0
Andrew Myers		1	4	2
Alex Bruce-Smith		0	0	0

The list shown is comprised of all users that have accounts on the system. On the People index page, you can see the commit history in global lines of code (LOC) that each person has contributed (expressed as a line graph) and their total number of commits. Also, the most recent piece of activity is shown as a clickable item.

You can click on a person's name to see detailed information about their additions to the repository, and issue updates and reviews if using FishEye with Crucible and JIRA integration is set up.

#### Screenshot: Statistics on a Person in FishEye

**Adrian Hempel**
Tools

**About**

ahempel@atlassian.com  
First commit 06 April 2009  
Latest commit 08 February 2010

	Last Week	All Time
Commits:	0	334
Files changed:	0	851
Change in LOC:	0	9,532

( Help with these stats )

Follow Adrian Hempel

**Reviews**

1 active review

**Line History**

**Activity**

All
Commits
Reviews
Issues
Show revisions

**Adrian Hempel**

- changed the Assignee to " on [CRUC-2770](#) 16 Feb
- started progress on [CRUC-3071](#) 10 Feb
- changed the status to Open of [CRUC-3071](#) 10 Feb
- updated 2 fields of [CRUC-3041](#) 08 Feb
- started progress on [CRUC-3041](#) 07 Feb
- updated 2 fields of [CRUC-3040](#) 07 Feb
- changed the status to To be reviewed of [CRUC-3040](#) 07 Feb
- created [CRUC-3042](#) 01 Feb
- started progress on [CRUC-3040](#) 01 Feb
- changed the status to Open of [CRUC-3041](#) 01 Feb
- created [CRUC-3041](#) 01 Feb
- updated 2 fields of [CRUC-3040](#) 01 Feb
- changed the status to Open of [CRUC-3040](#) 01 Feb



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 in FishEye.

### Avatars

By default, each user has a unique avatar that is randomly formed from the text in their email address. Users can choose to upload their own avatar image by uploading an image to an external service such as Gravatar, which FishEye supports. See the page on [Changing your User Profile](#).



If you are using [Crucible](#), statistics on each person's code reviews are also available.

## Changing your User Profile

You can change FishEye settings such as password, notifications, profile image and display settings.

To change your FishEye settings,

1. Log into FishEye.
2. Click the User Menu (labelled with your username) at the top of the screen, then select '**Settings**'. Your user settings will be displayed.
3. Update your user settings as desired. Each tab is described in more detail below:
  - [Display Settings Tab](#)
  - [Profile and Email Tab](#)
  - [Change Password Tab](#)
  - [Open Authentication \(OAuth\)](#)
  - [Author Mapping Tab](#)
  - [Watches Tab](#)
  - [Reviews tab](#)
4. Click the '**Close**' button when you have finished updating your settings.

[Screenshot: User Profile Settings](#)

**Settings**

Display Settings
Profile & Email
Change Password
Open Authentication (OAuth)
Author Mapping
Watches
Reviews

**Display Settings**
File history view mode: ☒ Physical ☐ Logical
Timezone: Default (US/Central)
**Changelog**
Changesets per page: 30
Always expand changesets in streams: ☒ Yes ☐ No
**Diff view**
Diff mode: ☒ Unified ☐ Side-by-side
Line wrapping: ☒ None ☐ Soft
Context lines: 3
**Source view**
Default annotation mode: ☒ Age ☐ Author ☐ None
Highlighting colours: ☒ Default ☐ Classic (muted)
Tab width: 8

Close

## Display Settings Tab

The options in this tab allow you to amend the display settings.

### Display Settings

Field	Value
<b>File history view mode</b>	Default is 'Logical'. In Subversion repositories, FishEye is able to show all operations on a single logical file spread across a number of physical paths - i.e. operations in different branches. When this is set to 'Logical', FishEye will show all the operations across all branches. In 'Physical' mode, only the operations related to the physical path whose history is being viewed are shown.
<b>Timezone</b>	Default is the timezone of the FishEye server.

### Changelog

Field	Value
<b>Changesets per page</b>	The default is 30 per page.
<b>Always expand changesets in stream</b>	Default is Yes.

### Diff View

Field	Value
<b>Diff mode</b>	Default is 'Unified'. Can be changed to 'Side-by-side' diffs.
<b>Line wrapping</b>	Default is 'None' i.e. long lines will never word-wrap. 'Soft' is when long lines will word-wrap.

<b>Context lines</b>	Default is 3'. The number of lines to show (for context), if the diff contains more than three lines of code.
----------------------	---

### Source View


Field	Value
<b>Default annotation mode</b>	Default is 'Age'. It can be changed to 'Author' or 'None'.
<b>Highlighting Colours</b>	The default colour scheme uses bright colours for highlighting diffs in the code. If you prefer more muted colours, select ' <b>Classic (muted)</b> '.
*Tab width	Default is 8. Can be changed to a number between 1 and 10.

## Profile and Email Tab

Field	Value
<b>Display Name</b>	Name displayed for the user currently logged in.
<b>Email Address</b>	The address all email notifications will be sent to.
<b>Email Format</b>	Default is text. Can be changed to be sent as HTML.
<b>Send Watch Emails</b>	The frequency at which emails will be sent for watch notifications: /* 'Immediately' — The email is sent every time a change is made. This is the default value. /* 'Daily' — You will receive a daily email summarising changes.
<b>Profile Picture</b>	Upload an avatar image of your choice. This image will be displayed next to your username throughout FishEye/Crucible. Accepted formats are JPG, GIF and PNG. Image file size limit is 2Mb. Images will be automatically be cropped on upload.

## Change Password Tab

Change your password via this tab, if required. Please note, the passwords are **case-sensitive**.

 This tab will not display if your FishEye instance is connected to an external LDAP authentication source, like LDAP. You will need to contact your administrator for assistance.

## Open Authentication (OAuth)

Configure your OAuth settings on this page. You can choose to allow gadgets/applications to access FishEye data using your account.

Read more about [OAuth](#).

## Author Mapping Tab

This functionality is used by [Crucible](#). Refer to the [Crucible documentation](#).

## Watches Tab

Any watches that you have set up in FishEye/Crucible will be displayed on this tab. You can watch the [dashboard activity stream](#), [changelogs](#) and [repositories](#). Watching an activity stream/repository allows you to receive emails when updates occur.

You can delete any of your watches by clicking the '**Delete**' link next to the watch.

## Reviews tab

This functionality is used by [Crucible](#). Refer to the [Crucible documentation](#).

## Re-setting your Password

If you need to reset your password, FishEye has an integrated mechanism to generate a new password and send it to the email address in your

profile.

### To reset your password:

1. On the log in screen, click the '**Forgot your password?**' link. The '**Request New Password**' screen opens.
2. Fill out your username or email address and the [Captcha](#) step. That is, click in the form field labelled '**Please enter the word as shown below**' and type the graphical letters shown above the '**Submit**' button.
3. An email is then sent to the email address specified in your profile. When it arrives, click the link supplied to complete the password reset.
4. On the resulting web page, you will receive the message '**A new password has been sent to your account.**'
5. An email will arrive in your inbox, containing your new password.



If you receive a password-reset email that you did not request, simply disregard it to continue using your current password.

Screenshot: The Log In dialog

Screenshot: The Request New Password screen

## Antglob Reference Guide

FishEye supports a powerful type of regular expression for matching files and directories (same as the pattern matching in Apache Ant).

These expressions use the following wild cards:

?	Matches one character (any character except path separators)
*	Matches zero or more characters (not including path separators)
**	Matches zero or more <i>path segments</i> .



Remember that Antglobs match *paths*, not just simple filenames.

- If the pattern does not start with a path separator i.e. / or \, then the pattern is considered to start with /\*\*/.
- If the pattern ends with / then \*\* is automatically appended.
- A pattern can contain any number of wild cards.

Also see the [Ant documentation](#).

Examples

*.txt	Matches /foo.txt and /bar/foo.txt but not /foo.txtty or /bar/foo.txtty/
/*.txt	Matches /foo.txt but not /bar/foo.txt
dir1/file.txt	Matches /dir1/file.txt, /dir3/dir1/file.txt and /dir3/dir2/dir1/file.txt
**/dir1/file.txt	Same as above.
/**/dir1/file.txt	Same as above.
/dir3/**/dir1/file.txt	Matches /dir3/dir1/file.txt and /dir3/dir2/dir1/file.txt but not /dir3/file.txt, /dir1/file.txt
/dir1/**	Matches all files under /dir1/

Date Expressions Reference Guide

FishEye supports a wide variety of date expressions. A date has the two possible general forms:

- DATE[+-]TIMEZONE[+-]DURATION, or
- DATECONSTANT[+-]DURATION.

The TIMEZONE and DURATION parts are both optional.

TIMEZONE can be an offset from GMT HHMM or HH:MM, or simply the letter Z to denote GMT. If no timezone is given, the FishEye server's configured timezone is used.

DATE can be either of the following:

YYYY-MM-DDThh:mm:ss	Specifies a time and date (separated by a T). The seconds part may contain a fractional component. A / can be used instead of - as a separator.
YYYY-MM-DD	Specifies 00:00:00 on the given date. A / can be used instead of - as a separator.

DATECONSTANT can be any of:

now	This very instant (at the time the expression was evaluated).
today todaygmt	The instant at 00:00:00 today. (server-time* or GMT)
thisweek thisweekgmt	The instant at 00:00:00 on the first day of this week. Sunday is considered the first day. (server-time* or GMT)
thismonth thismonthgmt	The instant at 00:00:00 on the first day of this month. (server-time* or GMT)
thisyear thisyeargmt	The instant at 00:00:00 on the first day of this year. (server-time* or GMT)

\* The timezone used for server-time is part of the FishEye configuration

The syntax for DURATION is similar to the XML Schema duration type. It has the general form PnYnMnDTnHnMnS. See Section 3.2.6 of the XML Schema Datatypes document for more details.

Examples

2005-01-02	The start of the day on January 1, 2005 (server's timezone)
2005-01-02-0500	The start of the day on January 1, 2005 at GMT offset -0500 (New York)
2005-01-02T12:00:00Z	Midday, January 1, 2005 GMT
today-P1D	Yesterday (start of day)
today+P1D	Start of tomorrow
thismonth-P1M	Start of last month
thisyear+P1Y	Start of next year
now-PT1H	One hour ago
now+PT1H2M3S	One hour, two minutes and three seconds from now

## EyeQL Reference Guide

FishEye contains a powerful query language called **EyeQL**. EyeQL is an intuitive SQL-like language that allows you to write your own specific queries. [See examples.](#)

EyeQL allows you to perform complex searches either within the [Advanced Search](#) or incorporated in scripts when programming the FishEye API.

*query:*

**select revisions**

**(from (dir|directory) word)?**

**(where clauses)?**

**(order by date (asc | desc)? )?**

Notes: *asc* produces 'ascending order'.

*desc* produces 'descending order'.

**(group by (file|dir|directory|csid|changeset))?**

**(return return-clauses)?**

**(limit limit-args)?**

*clauses:*

*clause ((or|and|,) clause)\**

Notes:

*and* binds more tightly than *or*.

',' (comma) means 'and'.

*clause:*

**(clauses)**

**not clause**

**path (not)? like word**

Notes:

*word* is an Antglob.

**path = word**

Notes:

Defines an exact path without wildcards or variables. **path** must represent a complete (hard-coded) path.

**path != word**

Notes:

Defines an exact path exclusion without wildcards or variables. **path** must represent a complete (hard-coded) path.

**date in ( ( [ ] dateExp, dateExp ( ) [ ] )**

Notes: The edges are

inclusive if [ or ] is used.

exclusive if ( or ) is used.

**date dateop dateExp**

Notes:

*dateop* can be <, >, <=, >=, =, == or !=.

**author = word**

**author in** (*word-list*)

**comment matches** *word*

Notes:

Does a full-text search.

**comment =** *string*

Notes:

Matches *string* exactly.

Most comments end in a new line, so remember to add \n at the end of your string.

**comment =~** *string*

Notes:

*string* is a regular expression.

**content matches** *word*

Notes:

Does a full-text search.

At this time searches are restricted to HEAD revisions.

**(modified|added|deleted)? on branch** *word*

Notes:

Selects all revisions on a branch.

*modified* excludes the branch-point of a branch.

*added* selects all revisions on the branch if any revision was added on the branch.

*deleted* selects all revisions on the branch if any revision was deleted on the branch.

**tagged** *op?* *word*

Notes:

*op* can be <, >, <=, >=, =, == or !=.

*op* defaults to == if omitted.

These operators are 'positional' and select revisions that appear on, after, and/or before the given tag.

**between tags** *tag-range*

**after tag** *word*

**before tag** *word*

**is head (on** *word***)?**

Notes:

This selects the top-most revision on any branch, if no branch is specified.

**is ( dead | deleted )**

Notes:

Means the revision was removed/deleted.

**is added**

Notes:

Means the revision was added (or re-added).

**csid =** *word*

Notes:

Selects all revisions for the given changeset ID.

**p4:jobid =** *word*

Notes: finds revisions whose Perforce jobid is *word*.

**p4:jobid =~** *word*

Notes: finds revisions whose Perforce jobid matches regex *word*.

**reviewed**

Notes: (*applies to [Crucible reviews](#)*) alias for **in** or **before** any closed review.

**(in | before | in or before) review** *word*

**(in | before | in or before) any** (*review states*)? **review**

Notes:

*word* is a review key.

**in** selects reviewed revisions. If a review contains a diff, then only the most recent revision is considered **in** the review.

**before** selects all revisions in a file prior to the revision **in** the review.

*review states* is a comma-separated list of **open**, **closed**, **draft**.

*tag-range:*

```
(( [ ] T1:word, T2:word ( ) [ ] )
```

Notes:

A range of revisions between those tagged T1 and T2.

The edges are:

inclusive if [ or ] is used.

exclusive if ( or ) is used.

You can mix edge types. These are all valid: (T1,T2), [T1,T2], (T1,T2] and [T1,T2).

**Having trouble with Subversion tags?** See [How Tags Work in Subversion](#) for more information.

*word:*

Any *string*, or any non-quoted word that does not contain white space or any other separators.

*string:*

A sequence enclosed in either " (double quotes) or ' (single quotes).

The following escapes work: \ ' \ " \ n \ r \ t \ b \ f.

Unicode characters can be escaped with \uXXXX.

You can also specify strings in 'raw' mode like r"foo". (Similar to Python's raw strings. See Python's own [documentation](#)).

*dateExp:*

See our [Date Expressions Reference Guide](#) for more information on date formats.

*return-clauses:*

```
return-clause (, return-clause)*
```

A return clause signifies that you want control over what data is returned/displayed.

*return-clause:*

```
( path | dir | directory | revision | author | date | comment | csid | isBinary | totalLines | linesAdded | linesRemoved | isAdded | isDeleted | isCopied | isMoved | tags | reviews | aggregate)
```

```
( as word )?
```

The attribute to return, optionally followed by a name to use for the column.

Notes: **reviews** applies to [Crucible reviews](#).

*aggregate-return-field:*

```
( count(revisions) | count(binary-field) | count(distinct other-field) | sum(numeric-field) | average(numeric-field) | max(numeric-field) | min(numeric-field) )
```

The aggregate field to return.

Notes:

*binary-fields* are **isBinary**, **isAdded**, **isDeleted**, **isCopied**, **isMoved**. e.g. **count(isAdded)** will return the number of added files.

*numeric-fields* are **totalLines**, **linesAdded**, **linesRemoved**.

*other-field* can be **path**, **dir**, **author**, **date**, **csid**, **tags** or **reviews**. e.g. **count(distinct path)** will return the number of unique paths.

**count(distinct tags)** will return the number of unique tags.

If a `group by` is given, give sub-totals for each group.

With no `group by` clause, you can have:

- return *normal columns*
- return *aggregates*

With a `group by changeset|csid` clause:

- return *normal columns*
- return `csid`, `comment`, `date`, `author`, *aggregates*

With a `group by file|path` clause:

- return *normal columns*
- return `path`, *aggregates*

With a group by `dir|directory` clause:

- return *normal columns*
- return `dir`, *aggregates*

i.e. The EyeQL can contain a **returns** clause that contains all non-aggregate columns, or all aggregate columns. Non-aggregate and aggregate columns can only be mixed if the columns are unique for the grouping.

*limit-clause:*

( *length* | *offset*, *length* | *length* **offset** *offset* )

Notes: Limits the number of results to return. *offset* specifies the starting point of the truncated result set and *length* specifies the set length. *offset* is zero-based.

## Examples

The following examples demonstrate using EyeQL to extract information from your repository.

### Find files removed on the Ant 1.5 branch:

```
select revisions where modified on branch ANT_15_BRANCH and is dead group by changeset
```

### As above, but just return the person and time the files were deleted:

```
select revisions where modified on branch ANT_15_BRANCH and is dead return path, author, date
```

### Find files on branch and exclude delete files:

```
select revisions where modified on branch ANT_15_BRANCH and not is deleted group by changeset
```

### Find changes made to Ant 1.5.x after 1.5FINAL:

```
select revisions where on branch ANT_15_BRANCH and after tag ANT_MAIN_15FINAL group by changeset
```

### Find changes made between Ant 1.5 and 1.5.1:

```
select revisions where between tags (ANT_MAIN_15FINAL, ANT_151_FINAL] group by changeset
```

### As above, but show the history of each file separately:

```
select revisions where between tags (ANT_MAIN_15FINAL, ANT_151_FINAL] group by file
```

### Find Java files that are tagged ANT\_151\_FINAL and are head on the ANT\_15\_BRANCH: (i.e. files that haven't changed in 1.5.x since 1.5.1)

```
select revisions from dir /src/main where is head and tagged ANT_151_FINAL and on branch ANT_15_BRANCH and path like *.java group by changeset
```

### Find changes made by conor to Ant 1.5.x since 1.5.0:

```
select revisions where between tags (ANT_MAIN_15FINAL, ANT_154] and author = conor group by changeset
```

### Find commits that do not have comments:

```
select revisions from dir / where comment = "" group by changeset
```

### Find the 10 most recent revisions:

```
select revisions order by date desc limit 10
```

### Find the 5th, 6th & 7th revisions:

```
select revisions order by date limit 4, 3
```

### Find commits between two dates:

```
select revisions where date in [2008-03-08, 2008-04-08]
```

### Find revisions that do not have any associated review:

```
select revisions where (not in any review)
```

### Return number of matched revisions, the number of files modified, authors who modified code, changesets, tags, and reviews:

```
select revisions
where date in [ 2003-10-10, 2004-12-12 ]
return count(revisions), count(distinct path), count(distinct author), count(distinct csid),
count(distinct tags), count(distinct reviews)
```

As Sub-totals for each distinct changeset, Return csid, the author, date, comment, number of matched revisions, the number of files modified, the lines added/removed:

```
select revisions
where date in [ 2003-10-10, 2004-12-12 ]
group by changeset
return csid, author, date, comment, count(revisions), count(distinct path), sum(linesAdded),
sum(linesRemoved)
```

For each matched file, return the file name, number of matched revisions, the lines added/removed:

```
select revisions
where date in [ 2003-10-10, 2004-12-12 ]
group by file
return path, count(revisions), sum(linesAdded), sum(linesRemoved)
```

Show all the changesets with no review:

```
select revisions
from dir /
where not reviewed
group by changeset
return csid, author, count(revisions), comment
```

## FishEye Administrator's Guide

Once you have [installed](#) and [configured](#) FishEye, you can access the Administration Console at <http://HOSTNAME:8060/admin/>.

The FishEye Administration Console allows you to administer your FishEye instance and manage your repositories. You will also want to read about the [command-line options](#) for controlling FishEye.



You can disable FishEye's Administration Console by setting `admin-hash=""` in the `<config>` element of `config.xml` before starting FishEye.

### Topics

- [Managing your Repositories](#)
- [Configuring ViewVC Compatibility](#)
- [Configuring SMTP](#)
- [Setting up a Repository Client](#)
- [Setting up your Web Server](#)
- [Contacting Support](#)
- [Migrating to an External Database](#)
- [Software Update Notifications](#)
- [Running Scheduled Events](#)
- [JIRA Integration in FishEye](#)
- [Customising Email Notifications](#)
- [Setting up your Users and Security](#)
- [Trusted Applications](#)
- [Advanced Administration Options](#)
- [Managing Plugins](#)
- [Customising the Welcome Message](#)
- [Backing Up and Restoring FishEye Data](#)
- [Enabling Access Logging in FishEye](#)

## Managing your Repositories

You can view the repositories currently set up for your FishEye/Crucible instance in the Administration Console. The list of repositories also provides functions to start/stop repository scans, disable/enable repositories, delete repositories and configure various repository settings. You can also add a new repository from the repository list page.

On this page:

- [Viewing Repositories](#)



- [Adding a New Repository](#)
- [Accessing FishEye Repository Options](#)


## Viewing Repositories

To view the repositories set up for your FishEye/Crucible instance,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.

The 'Repositories' screen of the administration console will be displayed, with the 'Native' tab showing.

2. Click any of the tabs on the 'Repositories' screen to view the relevant repositories. The number next to the tab title indicates how many of that type of repository are listed under the tab. In most instances, the '**Native**' tab will contain the majority of your repositories.
3. Configure/View the details for individual repositories, as follows:
  - Click the name of the repository to view the repository options. See [Repository Options](#).
  - Click the cog icon  to view the following repository operations in a dropdown menu. Click any option in the dropdown menu to run the operation.
    - '**View**' — View the repository options. See [Repository Options](#).
    - '**Browse**' ('Running' repositories only) — Browse a repository. See [Browsing through a Repository](#).
    - '**Stop**' ('Running' repositories only) — Stop access to the repository and stop the [repository scan](#), if a scan is in progress. See [Operations](#).
    - '**Restart**' ('Running' repositories only) — Allow access to the repository and resume the [repository scan](#), if necessary. See [Operations](#).
    - '**Enable**' ('Disabled' repositories only) — Enable the disabled repository. See [Operations](#).
    - '**Delete**' ('Disabled' repositories only) — Delete the FishEye profile for the disabled repository. See [Operations](#).
    - '**Application Links**' — Configure [application links](#) for the repository.
  - Click the '**Add**' link at the bottom of the list of repositories to [add a new repository](#).
  - Click the refresh icon  to refresh the list of repositories. See [Updater](#) for information about polling the repositories.

 If you want to configure the default options for all repositories, click the '**Defaults**' link in the left menu. See [Repository Options](#) for more information.

*Screenshot: The Repository List in the FishEye Administration Screen*

Repositories

Native Repository Access (8) Plugins (5)

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

Name	Type	Description	Location	State	Last Update
AGMP	Subversion	a good marketing play	https://studio.atlassian.com/svn/AGMP	Disabled	
applinks	Subversion		https://studio.atlassian.com/svn/APL	Disabled	
atlassian	Subversion		https://svn.atlassian.com/svn/public/atlassian	Running	58 seconds ago
BM	Subversion	Build Monitor	https://labs.atlassian.com/svn/BM	Disabled	
CFS	Subversion		https://studio.plugins.atlassian.com/svn/CFS	Running	50 seconds ago
CGIT	Subversion	Git LightSCM Plugin	https://studio.plugins.atlassian.com/svn/CGIT	Running	50 seconds ago
CLOV	Subversion	Clover	https://studio.atlassian.com/svn/CLOV	Running	28 seconds ago
FE	Subversion	FishEye	https://studio.atlassian.com/svn/FE	Running	5 seconds ago

Info

Indexing has commenced for repository FE

Add...

## Adding a New Repository

The following pages contain information on adding a new repository in FishEye/Crucible:

- [Adding a Repository](#)
  - [ClearCase](#)

- [CVS](#)
- [Git](#)
- [Mercurial](#)
- [Perforce](#)
- [Subversion](#)
  - [SVN fisheye.access](#)
  - [SVN Tag and Branch Structure](#)
    - [How Tags Work in Subversion](#)


## Accessing FishEye Repository Options

The following pages contain information on configuring the options for a repository in FishEye/Crucible:

- [Repository Options](#)
  - [Allow \(Process\)](#)
  - [Authentication](#)
  - [Commit Message Syntax](#)
  - [Configuring Repository Details](#)
  - [Hidden Directories](#)
  - [Indexer](#)
  - [Linkers](#)
  - [Operations](#)
  - [Permissions](#)
  - [Properties](#)
  - [Store Diff Info](#)
  - [Tarball Settings](#)
  - [Updater](#)
  - [Watches](#)

## Adding a Repository

The instructions on this page describe how to add a new repository to FishEye. Once a repository has been added, further configuration options are available, depending upon the type of repository.

 Please note, FishEye needs to build an index and cache of a repository when the repository is first added. This begins when you first **enable** a repository, and may take some time to complete.

To add a repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the '**Add...**' link at the bottom of your list of repositories. The 'Basic Details' screen of the 'New Repository' dialogue will be displayed.
4. Complete the 'Basic Details' for your new repository, as follows:
  - Select a '**Repository type**' from the dropdown list.
  - Enter a '**Name**' for your repository.
  - Enter a '**Description**' for your repository. This is an optional field.
  - Tick the '**Show Advanced Settings**' checkbox to show advanced settings for your repository. The following fields that display will vary depending on the chosen repository type:
    - '**Store Diff Info**' — *(non-CVS repositories only)* Tick this checkbox to allow FishEye to store information about file diffs (not the diffs themselves). Read more about this setting in [Configuring Repository Details](#).
5. Click the '**Next**' button to configure the repository settings specific to the repository type. See the following topics for more information:
  - [ClearCase](#)
  - [CVS](#)
  - [Git](#)
  - [Mercurial](#)
  - [Perforce](#)
  - [Subversion](#)
6. Click the '**Add**' to add your new repository when you have entered all of the repository settings.


[Screenshot: Adding a Repository](#)





**New Repository - Page 1 of 3**


**Basic Details**

Repository Type: Subversion

Name: \* FE 

Description: FishEye 

Show Advanced Settings: ☒ 

Store Diff Info: ☒ 

Back
Next
Add
Cancel

## ClearCase

This page contains instructions for how to set up a ClearCase repository in FishEye, a configuration reference and a list of known issues.



If you also have Crucible, you will also be able to run Crucible reviews on code from your ClearCase repository, once configured.

### On this page:

- [Requirements](#)
- [Setting up a ClearCase Repository](#)
  - [1. Enter the Basic Repository Details](#)
  - [2. Enter the ClearCase Settings](#)
  - [3. Enter the Final Settings](#)
- [Notes](#)
  - [Inclusion/Exclusion Settings](#)
  - [View Creation](#)
  - [Indexing Logic](#)
  - [Allocating Time for Repository Scanning](#)
- [Changelog](#)
- [Known Issues](#)
- [Feedback and Support](#)

### Requirements

The instructions on this page require the following:

#### Applications:

- IBM ClearCase 2003.06.10 or later
- The `cleartool` command must be installed on the same server as FishEye and must be available in the `PATH` of the user that is running FishEye.

#### Permissions:

- The FishEye process must be run as a user that is part of the required groups with access to the ClearCase VOBs. This is because FishEye uses the Cleartool client to access VOBs, and ClearCase uses the user and group information from the operating system to grant or limit access to VOB content.

## Setting up a ClearCase Repository

To add a ClearCase repository,

1. Open the 'New Repository' dialogue by following the instructions on [Adding a Repository](#).
2. Set your ClearCase repository details, as described below. Also see the [screenshots](#) below.

### 1. Enter the Basic Repository Details

Field	Description	Allowed values
Repository Type	Select 'ClearCase'.	ClearCase
Name	Enter a display name. This name will be displayed in the list of FishEye repositories.	Free text
Description	Optionally enter a description for this repository.	Free text

### 2. Enter the ClearCase Settings

Field	Description	Allowed values
View Location	If 'Auto Create View' is ticked, enter the location of a directory accessible to the FishEye instance where snapshot views can be created. If 'Auto Create View' is not ticked, enter the location of an existing ClearCase view. This can be either a dynamic or a snapshot view. (Note, this is <b>not</b> the view storage location typically .vws directory).	A system path
Auto Create View	Tick the checkbox, if you want FishEye to create views for each VOB or UCM Project being indexed. Do not tick the checkbox, if you want FishEye to use an existing view (specified in the 'View Location' field below).	Yes/No
UCM	Choose whether the underlying ClearCase repository uses UCM or Base ClearCase. The rest of the fields on this screen will change depending on which option you choose (see screenshots below)	Yes / No

If you have selected '**UCM**' to be '**No**' (i.e. you are configuring a Base ClearCase repository) complete the following fields:

Field	Description	Allowed values
Main Branches Only	Tick this checkbox, if you only want changes made on the main branch or delivered to the main branch to be indexed. Do not tick this checkbox, if you want all changes to be indexed.	Yes / No
Index Start Date	Enter an index start date, if you only want changes that were made after this date to be indexed. Note, files that have not changed since the index start date will not be displayed at all.	Date (YYYY-MM-DD)
Block Size	Enter the block size, i.e. how many change sets FishEye and Crucible will process in one batch. (This setting only displays if you tick the ' <b>Show advanced settings</b> ' checkbox at the bottom of the dialogue.)	Number
Command Timeout	Enter how long you want FishEye and Crucible to wait for ClearTool commands to complete, e.g. "100000". If not set, this will default to "3600000". (This setting only displays if you tick the ' <b>Show advanced settings</b> ' checkbox at the bottom of the dialogue.)	Number (in milliseconds)
VOB to Include	If you only need FishEye to index a <i>single</i> VOB, select the VOB to index. The dropdown list will contain all non-UCM VOBs found in the ClearCase installation.	Auto-populated
Include Pattern	If you need FishEye to index <i>multiple</i> VOBs, use a pattern to specify which VOBs to include. Multiple inclusion patterns can be separated with a comma. See the <a href="#">Inclusion/Exclusion Settings</a> section for examples of inclusion patterns.	Free text
Exclude Pattern	If you need FishEye to index <i>multiple</i> VOBs, use a pattern to specify which VOBs to exclude. Multiple exclusion patterns can be separated with a comma. See the <a href="#">Inclusion/Exclusion Settings</a> section for examples of exclusion patterns.	Free text
Branches to Include	Enter the list of the branches to include in indexing. An empty list will cause all branches to be indexed.	Table

<b>Branches to Exclude</b>	Enter the list of the branches to exclude from indexing.	Free text
----------------------------	--	-----------

If you have selected **'UCM' to be 'Yes'** (i.e. you are configuring a UCM ClearCase repository) complete the following fields:

Field	Description	Allowed values
<b>Integration Streams Only</b>	Choose whether FishEye and Crucible should index changes made on development and integration streams or only integration streams. We recommend that users choose 'Yes' for this option.	Yes / No
<b>Include Integration Activities</b>	Choose whether to include integration activities, i.e. when enabled, rebase and deliver activities will also be indexed.	Yes / No
<b>Index Start Date</b>	Enter an index start date, if you only want changes that were made after this date to be indexed. Note, files that have not changed since the index start date will not be displayed at all.	Date (YYYY-MM-DD)
<b>Block Size</b>	Enter the block size, i.e. how many change sets FishEye and Crucible will process in one batch. (This setting only displays if you tick the <b>'Show advanced settings'</b> checkbox at the bottom of the dialogue.)	Number
<b>Command Timeout</b>	Enter how long you want FishEye and Crucible to wait for ClearTool commands to complete, e.g. "100000". If not set, this will default to "3600000". (This setting only displays if you tick the <b>'Show advanced settings'</b> checkbox at the bottom of the dialogue.)	Number (in milliseconds)
<b>Project To Include</b>	A drop down list displaying all the UCM Projects found in the ClearCase installation. If users only require that FishEye index a single UCM Project, they should select the Project to index from this drop down list. If <b>'Auto Create View'</b> is set to 'False' (i.e. using an existing view), you must select a single project not 'All', as a view can only be used for a single UCM project.	Auto populated
<b>Project Include Pattern</b>	If you need FishEye to index <i>multiple UCM Projects</i> , use a pattern to specify which UCM Projects to include. Multiple inclusion patterns can be separated with a comma. See the <a href="#">Inclusion/Exclusion Settings</a> section for examples of inclusion patterns.	Free text
<b>Project Exclude Pattern</b>	If you need FishEye to index <i>multiple UCM Projects</i> , use a pattern to specify which UCM Projects to exclude. Multiple exclusion patterns can be separated with a comma. See the <a href="#">Inclusion/Exclusion Settings</a> section for examples of exclusion patterns.	Free text
<b>Streams to Include</b>	Enter the list of the UCM streams to include in indexing. An empty list will cause all streams to be indexed.	Free text
<b>Streams to Exclude</b>	Enter the list of the UCM streams to exclude from indexing.	Free text

### 3. Enter the Final Settings

Field	Description	Allowed values
<b>Store Diff Info</b>	Choose whether to enable the Store Diff Info setting. See <a href="#">Store Diff Info</a> for more information on this setting.	Yes / No
<b>Enable Repository After Adding</b>	Choose whether the repository will be accessible in FishEye immediately.	Yes / No

[Screenshots: Adding a ClearCase Repository \(click to view gallery\)](#)

Step 1  
 Step 2a (Base)  
 Step 2b (UCM)  
 Step 3

## Notes

### Inclusion/Exclusion Settings

The following points provide guidelines for the settings which may need to be applied in order to restrict the number of ClearCase Projects/VOBs indexed by FishEye:

- If you want all the VOBs/UCM Projects within your environment to be indexed, then you don't need to add any additional information on the Edit Repository screen. This is the default behaviour.
- If you want several VOBs/UCM Projects to be included (but not all), then you should include appropriate details in the VOB Includes/Excludes fields
- If you only wish for a single VOB/UCM Project to be indexed, then you should select the specific VOB/UCM Project from the 'VOB to Include' or 'UCM Project to Include' drop down list. This will force FishEye to **only** index the selected VOB/UCM Project.

When using the Includes/Excludes fields, you can enter one or more patterns, separated by a comma (note, you cannot use spaces). A pattern can be either a [regular expression](#) or a plain string. Matching is done as follows:

- A plain string pattern is considered to match a VOB or UCM Project if the string is part of the VOB/UCM Project (e.g. myvob matches vob:/vobs/myvob and vob:/vobs/myvob2)
- A regular expression is considered to match a VOB or UCM Project if it is the regular expression matches the VOB/UCM Project string (e.g. project:.\*\_Release.\* matches project:Product1\_Release2.1@/my\_pvob)

For Base ClearCase configurations, the patterns are matched against the VOB name as listed in the select box (e.g. vob:/vobs/yourvob):

VOB Include/Exclude Pattern	Description
/vobs/myvob1,/vobs/myvob2	matches /vobs/myvob1 and /vobs/myvob2, but also /vobs/myvob12
vob:/vobs/.*vob	regex pattern that matches /vobs/myvob, /vobs/yourvob, but not /vobs/myvob2
vob:/vobs/.*vob,/vobs/myvob1	combination of a regex pattern and a simple VOB name.

For UCM ClearCase configurations, the patterns are matched against the full UCM Project as listed in the select box (e.g. project:MyUCMProject@/my\_pvob):

UCM Project Include/Exclude Pattern	Description
-------------------------------------	-------------

MyProduct1,MyProduct2	matches all UCM projects whose name contains MyProduct1 or MyProduct2 (e.g. MyProduct12_Rel3.1)
project:MyProduct_Rel\d+.*	regex pattern that matches MyProduct_Rel1, MyProduct_Rel2, but not MyProduct_CoolNewFeature
./@/my_pvob,./@/my_otherpvob	regex patterns that match all UCM projects in the /my_pvob and /my_otherpvob PVOBs.

### View Creation

As part of the repository scanning logic, FishEye will create a view for each Project (for ClearCase UCM environments) or VOB (for Base ClearCase) using the locations defined in the 'View Location' and 'View Storage Location' fields. This is required in order for the underlying 'cleartool' commands to be executed in the correct context. Please note that FishEye will not perform updates on these views - it is intended that these views will remain unpopulated.

### Indexing Logic

It may be helpful to understand how FishEye's ClearCase support carries out indexing. Please see the following sections:

#### UCM ClearCase Indexing:

The ClearCase support will attempt to index all the available content within a ClearCase environment. The logic works as follows (ClearCase specific terms are underlined [see definitions](#)):

- All **PVOBs** that are available are identified.
- For each **PVOB**, find all the **Projects** contained within the **PVOB**.
- For each **Project**, find all the **Streams** associated with the **Project**.
- For each **Stream**, find all the **Activities** that have been delivered to the project.
- Find the **Versions** that were included in each **Activity** and index the **Version** information.
- Any **Labels** attached to **Versions** are also indexed.



PVOB stands for *Project Versioned Object Base*.

#### Base ClearCase Indexing:

The logic for the Base ClearCase support is,

All non-UCM VOBs that are available are identified.

- For each **VOB**, find all the **Branches** that contain versions.
- For each **Branch**, find the check-ins and index the version information.
- Any **Labels** attached to **Versions** are also indexed.

### Allocating Time for Repository Scanning

The initial scan of a repository is a time and resource intensive operation, more so if the ClearCase repository being indexed is large (both in terms of the number of ClearCase projects and the number of change sets included in each project). In the Atlassian test environment (running in a virtual machine), each commit included in a change set would take approximately one second to complete (the time taken in a non-VM environment seems to be slightly faster at approx 700ms). You can use these numbers to estimate the time it will take to scan your repository; it could take many hours or possible days to complete.

### Changelog

Changes included in 2.1.3

#### Config.xml schema changes:

The structure of the underlying schema for the ClearCase configuration config.xml file has changed. The effect of this is that for repositories created prior to version 2.1.3, the VOB/UCM Project Inclusion rules won't appear in the Administration UI. However, the previously entered values for these fields will still be used as part of the repository scanning logic.

In order for these fields to be displayed in the Administration UI, the values for these fields should be re-entered.

#### Interactive invocation of cleartool commands:

As a performance improvement measure, a number of the cleartool commands executed by FishEye as part of the repository scanning logic are now executed in 'interactive' mode. That is, a cleartool process (one per repository) is kept open for the duration of the indexing process.

The execution of commands in interactive mode can be disabled by adding a 'disableInteractiveProcess' attribute to the specific ClearCase repository defined in the config.xml file.

#### Performance Improvements:

Subsequent indexing operations for Base ClearCase repositories will take the last indexed date into account, so the 'cleartool lshistory' output will only include those changes that have not already been indexed.

Changes included in 2.1.2

In the first release, the include/exclude rules for VOBs and Projects were handled by the 'Include/Exclude' rules item on the administration page. Based on feedback received during initial version testing, this has been updated to provide additional flexibility:

- The VOBs which are indexed can be controlled via the 'VOB to Include' and 'VOB Include/Exclude Patterns' fields.
- Similarly, the UCM Projects which are indexed can be controlled via the 'UCM Project to Include' and 'UCM Project Include/Exclude Patterns' fields.
- The Include/Exclude rules on the Administration page now apply to files/directories that are indexed within a ClearCase VOB/Project. The values entered into these fields perform the matching logic as defined on the [Allow \(Process\)](#) page

### Known Issues

There are a number of known issues with ClearCase support in FishEye. These are listed below.

XML files cannot be viewed as 'Annotated' source

Currently XML files cannot be viewed as 'Annotated' source. By default, ClearCase using a specific type manager to store XML files. This type manager does not support the 'cleartool annotate' command, which is used by the logic in FishEye that displays the Annotated source.

Further to this, by default ClearCase treats any files not defined in the 'default.magic' file as 'compressed' (for instance, property files are not included in the default.magic file). Only text-based type managers can be annotated (and hence, can be displayed via the 'Annotated Source' link). The type manager can be updated by performing the following steps:

1. Update the default.magic file to include appropriate rules that specify the type manager to use for files of a given naming convention (this will take effect for newly created elements)
2. Modify the type manager for existing elements through the 'cleartool chtype' command.

Further information on the ClearCase type manager is available on the following pages:

- [Type Manager white paper](#)
- [cleartool chtype command reference](#)
- [cc.magic reference](#)

Cleartool output limited to 64K of data

There is a known bug with earlier versions of ClearCase that limit the Cleartool output to 64K of data. This may affect projects that contain a large amount of changes included in a changeset. This bug can be fixed by upgrading ClearCase — see [this page](#) for more information.

### Feedback and Support

Please raise a [support ticket](#) to seek assistance with FishEye ClearCase support.

## CVS

When [adding](#) or [configuring](#) a CVS (Concurrent Versions System) repository, you can:

- Define repository details, **as described below**.
- Set FishEye's [repository options](#).

There are also the following CVS-specific actions:

- [Updater](#).
- [Indexer](#).



#### Known Limitations

- To add a CVS repository, FishEye must have file system access to the repository. If you cannot install fisheye on the same server as CVS, then use [rsync](#) to mirror the repository.
- Currently, FishEye does not handle the \$Log RCS expansion keyword correctly. Some diff results (and line numbers in diffs) may appear incorrect in files where \$Log is used.

### CVS Repository Details

Name	A name for this repository. The name may contain alphanumeric, underscore, '-' or '.' characters. Use 'cvs' if you can't think of a better name.
Description	A short description of this repository.
CVS dir	The path to the CVS repository. This is often /usr/local/cvsroot. This is a path in the server's file system.

Charset	The character set used to interpret and display text files.
Enable immediately	Controls whether FishEye will immediately enable this repository, which starts the initial scan. If you wish to do some further configuration before the scan starts, then select 'No'. You can enable a repository later from the Repository List.

Screenshot: Adding a CVS Repository

### Add Repository

**Name:**

**Description:**

**Repository type:** Concurrent Versions System (CVS) ▼

**CVS dir:**

**Charset:** default (ISO-8859-1) ▼

**Enable immediately:** ☒ Yes ☐ No

## Git

When adding or managing a Git repository, you can do the following:

- Define repository details, as described below.
- Set FishEye's [repository options](#).

FishEye interacts with Git repositories by executing the Git command in a separate process. Hence, the server running FishEye needs to have Git installed. FishEye indexes Git repositories by making a private, bare clone of your repository within FishEye's cache area. It uses this private clone for most Git operations.

### On this page:

- [Requirements](#)
- [Git Repository Details](#)
- [Limitations](#)

### Requirements

- The server running FishEye must have Git (version 1.6 or later) installed.




*FishEye should work with later versions of Git and there are some minor features of later versions which FishEye is able to take advantage of.*

### Git Repository Details

#### Step 1

Field	Description
Repository Type	Select 'Git'.
Name	Enter a name for this repository. The name may contain alphanumeric, underscore, '-' or '.' characters. This will be repository name in FishEye.
Description	Enter a short description of this repository.

#### Step 2

Field	Description
Repository Location	Enter the URL describing the Git repository location. FishEye will clone this repository for indexing purposes. You can use any URL recognised by Git itself. See <a href="#">Git URLs</a> in the Git documentation for information on Git URLs. Do not use spaces in your URL.  <i>FishEye does not directly support the ssh protocol for Git repositories. To use ssh, launch FishEye within the context of ssh-agent, to which the appropriate ssh keys have been added.</i>
Path	<i>(optional)</i> Enter the path within the Git repository that you want FishEye to index. This lets you limit FishEye to indexing a subset of the complete Git repository.
Block Size	<i>(optional)</i> Enter how many commits you want FishEye to process in one batch. Larger values require more memory and increase the amount of work FishEye commits to the database in a single operation.
Command Timeout	<i>(optional)</i> Enter the time that a single Git command is allowed to take to execute. Any command that exceeds this time is terminated and the operation will fail.
Rename Detection	<i>(optional)</i> Select which Git rename detection strategy FishEye will use to detect copy and move operations within the repository. Please refer to the <a href="#">Git documentation</a> for more information (see the <code>--find-copies-harder</code> option)

**Step 3**

Field	Description
Store Diff Info	Tick this checkbox, if you want FishEye to cache information about file diffs in its database. This is required for some FishEye features. See <a href="#">Configuring Repository Details</a> for more information on this setting.
Enable Repository After Adding	Tick this checkbox, to enable the repository after adding (i.e. when you click the ' <b>Add</b> ' button).

**Screenshots: Adding a Git Repository**

Step 1

Step 2

Step 3

**Limitations**

When FishEye indexes a Git repository, it indexes by the available branches. As it processes the commits on a branch, FishEye will assign the commit to the branch it first sees the commit on. Commits are only indexed once so if a commit belongs to multiple branches, the commit will not be indexed against subsequent branches.

**Related Links**

- [Git Client Configuration](#)
- [Crucible Repository Configuration](#)
- [General Crucible Configuration](#)

**Mercurial**

When adding or managing a Mercurial repository, you can do the following:

- Define repository details, as described below.
- Set FishEye's [repository options](#).

**On this page:**

- [Requirements](#)
- [Mercurial Repository Details](#)



- [Notes](#)

## Requirements

- Before you add your Mercurial repositories, you will need to [set your executable location](#) for hg (Mercurial).

## Mercurial Repository Details

Name	A name for this repository. The name may contain alphanumeric, underscore, '-' or '.' characters.
Description	A short description of this repository.
Repository Type	Select ' <b>Mercurial</b> ' from the drop-down list.
Enable Immediately	Defaults to ' <b>Yes</b> '; set to ' <b>No</b> ' if desired.
Location	The URL describing the Mercurial repository location. FishEye will clone this repository for indexing purposes. ⓘ This URL must be compatible with the <a href="#">hg clone</a> command.
Block Size	Controls how many commits FishEye will process in one batch. ⓘ This setting appears under ' <b>Advanced</b> '.

### Step 1

Field	Description
Repository Type	Select 'Mercurial'.
Name	Enter a name for this repository. The name may contain alphanumeric, underscore, '-' or '.' characters. This will be repository name in FishEye.
Description	Enter a short description of this repository.

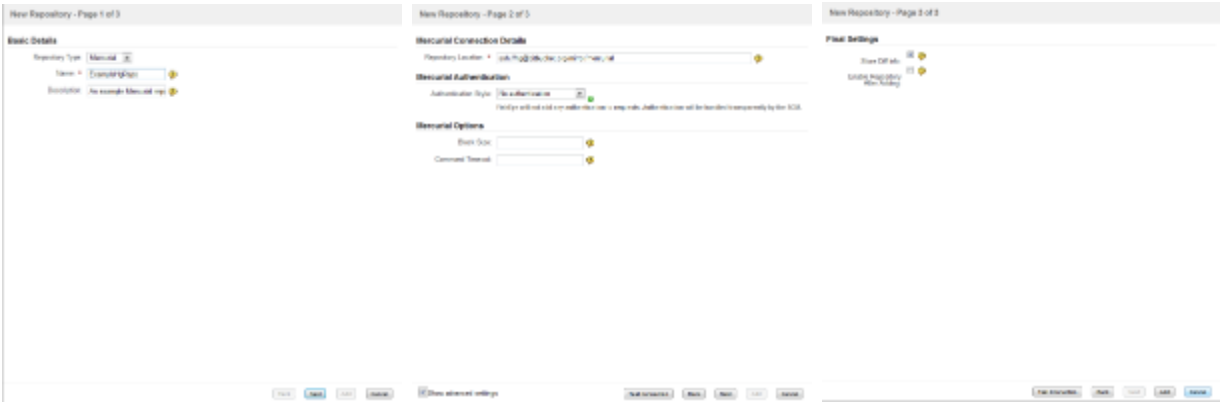
### Step 2

Field	Description
Repository Location	Enter the URL describing the Mercurial repository location. FishEye will clone this repository for indexing purposes. ⓘ This URL must be compatible with the <a href="#">hg clone</a> command.
Authentication Style	Choose the desired authentication style for your repository — 'No authentication', 'Generate key pair for SSH', 'Upload private key for SSH' or 'Password for http(s)'.
Block Size	(optional) Enter how many commits you want FishEye to process in one batch. Larger values require more memory and increase the amount of work FishEye commits to the database in a single operation.
Command Timeout	(optional) Enter the time that a single Mercurial command is allowed to take to execute. Any command that exceeds this time is terminated and the operation will fail.

### Step 3

Field	Description
Store Diff Info	Tick this checkbox, if you want FishEye to cache information about file diffs in its database. This is required for some FishEye features. See <a href="#">Configuring Repository Details</a> for more information on this setting.
Enable Repository After Adding	Tick this checkbox, to enable the repository after adding (i.e. when you click the ' <b>Add</b> ' button).

[Screenshots: Adding a Mercurial Repository](#)



- Step 1
- Step 2
- Step 3

Notes

- Submitting Feedback** — We're very interested in your feedback regarding this feature. The best place for submitting feedback is the [FishEye forums](#).

Related Links

- [Mercurial Client Configuration](#)
- [Crucible Repository Configuration](#)
- [General Crucible Configuration](#)

Perforce

When adding or managing a Perforce repository, you can:

- Define repository details, as described below.
- Set FishEye's [repository options](#).
- Set up a [Perforce client](#).

Perforce Repository Details

Name	A name for this repository. The name may contain alphanumeric, underscore, '-' or '.' characters. Use 'perforce' if you can't think of a better name.
Description	A short description of this repository.
Perforce Host	The name of the server which provides the Perforce repository.
Port	The port the server is listening on. This field is optional. FishEye will default to the standard Perforce port (1666) if you do not specify a value here.
Path	The path within the Perforce depot that you wish to have FishEye index. You would normally put the depot path here, e.g. //depot/ but you may also use a more specific path to restrict FishEye to a subset of the depot.
Block Size	Controls how many changelists FishEye will fetch from the depot in one batch. Larger values can reduce the time it takes for FishEye to scan your repository for changes, but use more memory. The default is 400.
Filelog limit	FishEye uses the P4 filelog command to gather information about the files in changesets. The list of files generated can be very large. Setting a limit here will cause FishEye to batch up filelog operations into groups. This is useful with some versions of the Perforce client which may have trouble with large output. In general you should only set this field if you have a 2005 client or earlier. Lower values will degrade scanning performance.
P4 Operation Timeout	Sets the timeout value that FishEye imposes on P4 operations. Operations which exceed this value are terminated. The default for most operations is 10 minutes. Use the following terms to specify particular units of time: s, m, h, d, w, mo, y (for seconds, minutes, hours, days, weeks, months and years respectively). For example, 10s.
Throttle connections-per-sec	If set, this allows FishEye to throttle how many connections it makes per second to the Perforce server. The default is blank (do not throttle). You may enter fractional values such as 2.5.
Charset	The character set used to interpret and display text files.
Unicode Server	This field indicates whether the Perforce Server is running in internationalised mode.

Skip Labels	When true, FishEye will not scan Perforce Labels for FishEye tag information.
Case Sensitive	This field indicates whether the Perforce Server metadata is case sensitive. You should set this to 'false' for servers running on Windows platforms.
Disable Multiple Print	When FishEye needs file content from Perforce, it uses a p4 print operation. Normally FishEye will request multiple files in one operation but this can cause problems in some Perforce instances. Set this value to true to disable printing multiple files in one operation.
Start Revision	If you wish to set this, please enter a <b>changelist</b> number. If set, the revision number from which FishEye will start indexing the repository. The default is to start scanning from the first revision in the repository.
Initial Import	When a Start Revision is set, this setting controls how FishEye establishes the initial state of the repository. When true, FishEye will import the repository content as it existed one revision prior to the start revision. FishEye will create a single synthetic revision to hold the initial state. The comment associated with this revision will be 'Created by FishEye for initial repository import'. False means that FishEye will only process the revisions from the start revision onwards. The repository state prior to this revision is ignored.
Username/Password	The credentials to use if your repository requires authentication.
Store Diff Info	Enable this option if you are using the Subversion or Perforce SCM systems and making use of per-author line counts. Otherwise, enabling this option is not necessary. Read <a href="#">more information</a>
Enable immediately	Controls whether FishEye will immediately enable this repository, which starts the initial scan. If you wish to do some further configuration before the scan starts, then select 'No'. You can enable a repository later from the Repository List.

*Screenshot: Adding a Perforce Repository*

Add Repository

Name\*:

Description:

Repository type:

Perforce

Enable immediately:

☒ Yes ☐ No

Perforce Connection

Performance Host\*:

Port:

Path\*:

//depot/

Perforce Options

Block Size:

Filelog Limit:

P4 Operation Timeout:

Throttle connections-per-sec:

0.0

Charset:

default (US-ASCII)

Unicode Server:

☐ Yes ☒ No

Skip Labels:

☐ Yes ☒ No

Case Sensitive:

☒ Yes ☐ No

Disable Multiple Print:

☐ Yes ☒ No

Start Revision:

Initial Import:

☐ Yes ☒ No

Username:

Password:

Store Diff Info:

☒ Yes ☐ No

Simple Add Cancel

## Subversion

When adding or managing a SVN (Subversion) repository, you can:

- Define repository details, **as described below**.
- Set FishEye's [repository options](#).
- Set up a [Subversion client](#).
- Grant [permission to FishEye](#) to scan your repository.
- Set up the correct [branch and tag structure](#).

There are also the following SVN-specific actions:

- [Updater](#)
- [Indexer](#)
- [Store Diff Info](#)



It is particularly important that you set up the correct branch and tag structure for your Subversion repositories. If FishEye does not know which files are tags and branches, it will treat all files as trunk files. This can significantly increase the effective size of your repository. **This will increase initial scan time and impact runtime performance.** Please refer to the instructions on [tag and branch configuration](#).

In the majority of cases, indexing a small repository shouldn't take hours, and certainly not days. However, if you have a giant repository, have a slow remote host, you're using HTTP or HTTPS protocols, or if there is a problem with the symbolic setup of your repository, it could potentially take hours or even days. If in doubt, schedule the indexing to run over a weekend or extended maintenance period.



Using the 'file://' protocol to access your Subversion repository can be much faster than the other network protocols. We recommend using the 'file://' protocol if possible.



#### Knowledge Base

You may find some useful information in the [Knowledge Base](#) too.

### SVN Repository Details

Detail	Description
Name	A name for this repository. The name may contain alphanumeric, underscore, '-' or '.' characters. Use 'svn' if you can't think of a better name.
Description	A short description of this repository.
Repository type	The type of repository - select "Subversion"
Store Diff Info	Enable this option if you are using the Subversion or Perforce SCM systems and making use of per-author line counts. Otherwise, enabling this option is not necessary. Read <a href="#">more information</a>
SVN URL	The Subversion Repository Root URL to your repository, such as <a href="#">svn://svn.foo.com</a> or <a href="#">file:///var/svn</a> . If you are not sure what your repository root is, check the section below "Finding your Repository Root". (Please note that file protocol performs the fastest followed by svn and lastly by http/s. Therefore where possible please use the file protocol.)
Path	The sub-tree within your repository that FishEye should display. If this value is '.' (or empty), then the whole repository will be shown.
Block Size	Controls how many revisions FishEye will pull down from the repository in one batch. Larger values can reduce the time it takes for FishEye to scan your repository for changes, but use more memory. Smaller values can reduce the amount of memory FishEye uses during scans. The default is 400.
Svn Operation Timeout	Sets the timeout value that FishEye imposes on Subversion operations. Operations which exceed this value are terminated. The default for most operations is 1 hour. It can be changed to a different interval, for example: "2 days", "10 hours", or "20 minutes".
Throttle connections-per-sec	If set, this allows FishEye to throttle how many connections it makes per second to the SVN server. Many systems use <code>inetd/xinetd</code> to service the <code>svnserve</code> protocol. <code>xinetd</code> has, by default, an incoming connection limit which can cause FishEye to disrupt other <code>svnserve</code> -based connections. The default is blank (do not throttle).
Charset	The character set used to interpret and display text files.
Access Code	The access code for the <code>fisheye.access</code> property on the server. See also <a href="#">Subversion fisheye.access</a> .
MD5 Access Code	The MD5 sum of the above Access Code. See also <a href="#">Subversion fisheye.access</a> . (This field only appears if Access Code is set.)
Set Access Property Command	The Subversion command to set the <code>fisheye.access</code> property to grant FishEye access if necessary. See also <a href="#">Subversion fisheye.access</a> . (This field only appears if Access Code is set.)
Start Revision	If set, the revision number from which FishEye will start indexing the repository. The default is to start scanning from the first revision in the repository.
Initial Import	When a Start Revision is set, this setting controls how FishEye establishes the initial state of the repository. <b>'Do not import'</b> means that FishEye will only process the revisions from the start revision onwards. The repository state prior to this revision is ignored. <b>'Import without tag information'</b> means that FishEye will import the repository content as it existed one revision prior to the start revision. FishEye will create a single synthetic revision to hold the initial state. The comment associated with this revision will be 'Created by FishEye for initial repository import'. Tags created prior to the start revision are ignored.

Username/Password	The credentials to use if your repository requires authentication.
Follow Base Moves	If you have changed the location of your repository in your Subversion server over time, set this option to true. Doing so will cause FishEye to index your repository's full history across all its locations within your server.
trunk/branch/tag structure	Determines how FishEye attempts to understand the tag and branch structure of your Subversion repository. Read <a href="#">more information</a> .
Enable immediately	Controls whether FishEye will immediately enable this repository, which starts the initial scan. If you wish to do some further configuration before the scan starts, then select 'No'. You can enable a repository later from the repository list.



If FishEye returns the error '**Authentication Cancelled**', this may simply indicate an incorrect username or password.

### ***Finding your Repository Root.***

Run the following command:

```
svn info SVN_URL
```

Where SVN\_URL is the complete URL of the repository you want to add.

You will get something like the following:

```
>svn info http://svn.example.com/svn5/

Path: svn5
URL: http://svn.example.com/svn5/
Repository Root: http://svn.example.com/
Repository UUID: ce062a09-193b-427a-a7b3-a85007076e5d
Revision: 83
Node Kind: directory
Last Changed Author: ryan
Last Changed Rev: 83
Last Changed Date: 2009-05-07 10:48:41 +1000 (Thu, 07 May 2009)
```

Next to "Repository Root" is the URL you should define as your repository root. The path will be whatever is remaining.

*Screenshot: Adding a SVN Repository*

Add Repository

Name:

Description:

Repository type:

Subversion

Store Diff Info:

Yes

No

SVN URL:

Path:

Block Size (Optional):

Svn Operation Timeout (Optional):

Throttle connections-per-sec (Optional):

0.0

Charset:

default (US-ASCII)

Access Code:

Start Revision:

Initial Import:

Do not Import

Username:

Password:

trunk/branch/tag structure:

/trunk/..., /branches/NAME/..., /tags/NAME/...

Re-index is required after change.  
(NB: select "Custom" to edit.) See also:

Regex	Name	Logical Path Prefix
Trunk (Add)		
<div>trunk[/]\$</div>	<div>trunk</div>	<div></div>
Branches (Add)		
<div>branches/[^[^/]]+</div>	<div>\$(1)</div>	<div></div>
Tags (Add)		
<div>tags/[^[^/]]+</div>	<div>\$(1)</div>	<div></div>
Test Path		
<div></div>		<div>Test Path</div>

Enable immediately:

Yes


No

Add

Cancel

SVN fisheye.access

The `fisheye.access` property allows an administrator/committer to control FishEye access to a directory in the repository. FishEye queries this property to decide whether it will continue to access the repository. If the property exists, but does not match that configured in FishEye, FishEye will immediately disconnect from the repository.

 By default, FishEye will have access to your repository and you do not need to configure this access mode. It is only necessary if you identify a need to restrict FishEye access to your repository (this is generally not required).

Setting FishEye Access Mode

FishEye can operate in one of three access modes:

Mode	Access	Subversion repository property: <code>fisheye.access</code>
Allow	Any FishEye server	'allow' or no property set
Access Code	Only FishEye servers configured with the correct Access Code	e.g. 'md5:dc0c08df1f3e80b599c90f53d7dd05ec'
Deny	No FishEye server	'deny'

If you would like to restrict FishEye access to your repository, you must set the `fisheye.access` property. This property must be set on the 'URL + path' you have configured in FishEye.

#### Setting an Access Code

The repository must be configured with the MD5 sum of the Access Code that is configured in FishEye. The MD5 sum and even the `svn` command to set the property will be generated for you by FishEye when you configure the repository using the FishEye Administration page. See [Subversion repository details](#).

For example, if you have configured FishEye with a URL of `svn://foo.com/`, a path of `.` and an Access Code of 'fisheye', then you would need to do something like this:

```
$ svn checkout -N svn://foo.com/ tmpworkspace
$ cd tmpworkspace
$ svn propset fisheye.access "md5:4d0c5db8382f80c58e7b0619ae5767a7" .
$ svn commit -m "grant fisheye access"
```

#### Denying Access to all FishEye Instances

To deny all FishEye instances access to the repository, it must be configured with the `fisheye.access` property of 'deny'.

For example, if you have configured FishEye with a URL of `svn://foo.com/` and a path of `.` (or you have left path empty), then you would need to do something like this:

```
$ svn checkout -N svn://foo.com/ tmpworkspace
$ cd tmpworkspace
$ svn propset fisheye.access "deny" .
$ svn commit -m "disable fisheye access"
```

If you configured a path of `some/dir` then use:

```
$ svn checkout -N svn://foo.com/some/dir tmpworkspace
$ cd tmpworkspace
$ svn propset fisheye.access "deny" .
$ svn commit -m "disable fisheye access"
```

## SVN Tag and Branch Structure


This page contains an explanation of how Subversion works, how FishEye interacts with it, and examples of how to configure FishEye to work with Subversion according to your needs.

On this page:

- [Overview](#)
- [Introduction to Subversion conventions](#)
- [Choosing the correct configuration method](#)
- [Custom layouts](#)
  - [How to set a custom layout](#)
- [Examples](#)
  - [Ideal configuration example](#)
  - [Custom example 1](#)
  - [Custom example 2](#)
  - [Example from a FishEye customer](#)
- [How Subversion works](#)
- [Frequently Asked Questions](#)

#### Overview

Subversion, one of the most popular source code management systems in use today, applies an interesting technology for creating branches and tags. In a Subversion repository, branches and tags can be easily copied or duplicated — this is allowed by creating a form of pointer or reference from one location to another, avoiding the need to duplicate a lot of information. The disadvantage of this is that Subversion repositories can be confusing to administer at times and its internal complexity can be problematic for applications such as FishEye that need to finely process its contents. As a result, FishEye may require some in-depth configuration with Subversion.

 If you are following strict conventions in organising your Subversion repository (as laid out in the [Subversion Red Book](#)), FishEye has automatic presets which are compatible with your repository.

Jump straight to the [examples](#), if you're already very familiar with Subversion and FishEye. Otherwise, please read on.



### Introduction to Subversion conventions

The most common project structure in Subversion is to use a project structure and have trunk, branches and tags directories for each project, like so:

```
/project1/trunk/...
/project1/branches/b1
/project1/branches/b2
/project1/branches/...

/project1/tags/t1
/project1/tags/t2
/project1/tags/...
```

If you point your FishEye repository at a single project root, say `/project1/`, then to FishEye, the directory structure looks like this:

```
/trunk
/branches
/tags
```

In this case, you have one single project within the repository root. On the other hand, if you point FishEye at the repository root, you will have multiple projects visible in your FishEye view.



Note that this example follows common conventions for repository layout, as outlined in the [Subversion Red Book](#). If you follow these conventions, your FishEye configuration will be simpler.

### Choosing the correct configuration method

Unsure as to whether you can use a preset symbolic rule, or whether you need to write your own custom symbolic rules? Refer to the flowchart below for answers:

#### Flowchart: Choosing the correct configuration method

1. If you point FishEye at your project root:

```
/PROJECT1
```

-and you have simply the following:

```
trunk
branches
tags
```

-at this level of the repository, use FishEye's built-in rules for easy, one-step configuration.

2. If you point FishEye at the repository root, you have multiple projects and each project has the following:

```
trunk
branches
tags
```

-leading to this structure in each project:

```
/PROJECT1/trunk
/PROJECT1/branches
/PROJECT1/tags
```

```

/PROJECT2/trunk
/PROJECT2/branches
/PROJECT2/tags

```

-(and so on), use FishEye's built-in rules for easy, one-step configuration.

3. Otherwise, you have a [custom layout](#).

### Custom layouts



Regular expressions are required knowledge for creating custom repository layouts in FishEye.

You will now need to describe to FishEye how to recognise the paths in your repository. What you are telling FishEye is which paths within the repository are related, i.e. which are operations on the same file in different branches and which are tags of a file. You must also tell FishEye how to determine the branch name or the tag name. Most custom layouts are variations on the one of the two standard layouts described above. The best approach to creating your custom configuration is to use one of the appropriate entries from the drop down list. This can serve as a template for you, which you can then customize. Once you have selected the appropriate template, select the "Custom" entry from the drop down list. Now, you will be able to edit the entries (or add entries).

See the [examples](#) below for more information.

#### How to set a custom layout

Using [Regular Expressions](#), you can describe any custom tag or branch structure that you have. You should use one of the common layouts (from the drop down list) as a basis, firstly select it, then select 'Custom' to edit or add rules.

When looking at a file on a branch, or a file that was tagged, FishEye needs to determine a name for the branch or tag. FishEye does this by matching a regular expression against the file's path, and extracting the name based upon the match. FishEye also needs a name for files on the trunk. In effect, this is the name of the trunk 'branch'.

For any file that matches a trunk/branch/tag regular expression, a logical path is calculated. Two different files with the same logical path are considered to be related. For example, using the second type of common repository layout:

- The file `project1/trunk/dir1/foo.txt` would have a logical path of `project1/dir1/foo.txt`.
- The file `project1/tags/BUILD123/dir1/foo.txt` would have a logical path of `project1/dir1/foo.txt` and the name of the tag would be `project1-BUILD123`.
- Both these files have the same logical path, and so are considered related. By looking at the revision where the directory-copy for `project1/tags/BUILD123/dir1/foo.txt` occurred, FishEye can determine to what revision the tag `project1-BUILD123` applies.

You can add as many rules as you need. For any given file, the first rule that matches is used.

Rule	Description
Regex	The regular expression used to match against the start of the path. The trailing part of the path that does not match the regex is called the tail.
Name	An expression used to extract a tag or branch name from the regex.
Logical Path Prefix	This is an expression used to construct the logical path. The logical path is the concatenation of the result of this expression, and the tail of the regex.

See the [examples](#) below for more information.

### Examples

These examples show the regular expressions used for some custom configurations. If you need more information on how these examples work, please see [How Subversion Works](#) on this page.

- [Ideal configuration example](#)  
This shows a best-case near "zero configuration" project structure that is instantly compatible with FishEye. In this case, you have trunk, branches and tags as the base folders in your repository.
- [Custom example 1](#)  
This shows a custom project structure and the symbolic rules required.
- [Custom example 2](#)

This shows another kind of custom project structure and the symbolic rules required.

- [FishEye customer](#) example.  
This is a real-world configuration used by a FishEye customer.

Ideal configuration example


If your repository is organised in this way, simply select the **'In-Built symbolic rules'** option. FishEye will then be fully connected to your repository (you do not need to write a regular expression, or choose anything from a list).

Project Structure

```
/PROJECT1/trunk/  
  
/PROJECT1/branches/branchname  
  
/PROJECT1/tags/tagname
```

 Note that this example follows common conventions, as outlined in the [Subversion Red Book](#).

Custom example 1

 Whenever you have a custom project structure in Subversion, you will need to write a [regular expression](#).

Say you have an additional directory you use for tagging releases, which is different from the everyday tags you create in the tags directory:

Project Structure

```
/trunk/  
  
/branches/branchname  
  
/tags/tagname  
  
/releases/releasename
```

Symbolic Rules

Regular Expression	Name	Logical Path Prefix
<div>trunk(/ )\$</div>	<div>trunk</div>	N/A
<div>branches/([^\s/]+)</div>	<div>\${1}</div>	N/A
<div>(tags releases)/([^\s/]+)</div>	<div>\${2}</div>	N/A

Custom example 2



Whenever you have a custom project structure in Subversion, you will need to write a [regular expression](#).

In this example, there is a "core" project area and then a number of separate plugins. the core contains its own trunk/branches/tags structure while the plugins are in a named directory which contains their trunk/branches/tags directory. We want to have the core and all the plugins visible in a single FishEye repository.

### Project Structure

```
/core/trunk/
/core/branches/
/core/tags/

/plugins/plugin1/trunk/
/plugins/plugin1/branches/
/plugins/plugin1/tags/

/plugins/plugin2/trunk/
/plugins/plugin2/branches/
/plugins/plugin2/tags/
```

### Symbolic Rules

Applies to	Regular Expression	Name	Logical Path Prefix
trunk	<code>core/trunk(/ \$)</code>	<code>trunk</code>	<code>core</code>
trunk	<code>plugins/([^\s]+)/trunk(/ \$)</code>	<code>trunk</code>	<code>plugin_\${1}</code>
branches	<code>core/branches/([^\s]+)</code>	<code>core-\${1}</code>	<code>core</code>
branches	<code>plugins/([^\s]+)/branches/([^\s]+)</code>	<code>\${1}-\${2}</code>	<code>plugin_\${1}</code>
tags	<code>core/tags/([^\s]+)</code>	<code>core-\${1}</code>	<code>core</code>
tags	<code>plugins/([^\s]+)/tags/([^\s]+)</code>	<code>\${1}-\${2}</code>	<code>plugin_\${1}</code>

In this example, the Logical Path Prefix has been configured to distinguish files with the same name in different plugins. For example, the file build.xml may exist in all plugins but such files are not related even though they have the same name. The Logical Path Prefix is used to tell FishEye to which "logical group" the files belong.

Example from a FishEye customer

This is real-world example from a FishEye customer. This is a slightly non-standard project structure. The correct symbolic rules for this project structure are shown below:

Project Structure

```
/trunk/PROJECT1

/branches/PROJECT1/branchname

/tags/PROJECT1/tagname
```


Symbolic Rules


Regular Expression	Name	Logical Path Prefix
trunk/([^\s/]+)	\${1}	N/A
branches/([^\s/]+)/([^\s/]+)	\${1}-\${2}	N/A
tags/([^\s/]+)/([^\s/]+)	\${1}-\${2}	N/A

How Subversion works

Since tags and branches are implemented via directory copies in Subversion, they are not really first-class concepts. This means that FishEye has to determine branch and tag information by examining the paths involved in Subversion operations and matching these against branch and tag conventions used in the repository. Since these conventions are not fixed, you may need to tell FishEye what conventions you use in your repository. By default FishEye has some inbuilt rules which handle the most common conventions typically used in most Subversion sites. If, however, you've decided to use a custom convention, you can define custom rules to describe what your tag/branch structure looks like. These settings can be edited on the 'Add Repository' or 'Edit Repository' pages in the FishEye Administration pages.

The symbolic setup tells FishEye how to classify each path it encounters as it indexes the repository. Each path is classified as either a trunk, branch, tag or root path. The trunk, branch and tag categories are the normal conventions used in SCMs. The root category is used when a path does not match any of the given trunk/branch/tag settings and is mostly treated in the same way as trunk paths. For example, the branches directory itself does not belong to the trunk, a particular branch or a tag and is classified as a root path.

 The symbolic settings do not exclude any paths from consideration by FishEye. To exclude paths you should set up appropriate 'allow' rules. If your symbolic setup does not match a path, that path will be classified as a root path and processed by FishEye accordingly.

 If you change these trunk/branch/tag settings, you would normally perform a complete re-scan of the repository to ensure FishEye's index is consistent with the settings. FishEye will suggest this when you make changes and you can also do this manually from the [Indexer](#) option. If you don't want to re-index, you can also choose to ignore this suggestion.

For more information on tag and branch layout, see [Repository Layout](#) in the Subversion documentation, or [How Tags Work in Subversion](#) for more background information.

Frequently Asked Questions

What is the logical path prefix?

The first part of a path, where you want to constrain to a specific origin for the paths in context.

### What is the logical tail?

The last part of the path is the logical tail, that specifies the exact folders in context.

### How does the logical tail affect the search?

The logical tail could be used to select every occurrence of a file called `build.xml`, for example, or every folder of a given name near the end of the path.

## How Tags Work in Subversion

If you are having trouble finding out the correct Tag or Branch names to use under Subversion (especially when searching or creating EyeQL queries), the steps on this page will help.

### Discovering your Subversion Tag & Branch Structure

1. Open a file in your repository using FishEye. Look for a file that has a long lifetime (for example, your build script).
2. Look at the **'Tags'** section to see examples of tags in your system. There are a few different conventions, but the tags shown will give you clues as to how your repository custodians do things.

A typical tag looks like this:

```
fisheye-build-82
```

3. Copy the tag(s) you may need from the examples you can see in FishEye's view.
4. Enter the tags exactly as they appear into your EyeQL queries or (FishEye Search).
5. Test the outcome.

### Screenshot: Subversion Tags viewed in FishEye

The screenshot shows a file view in FishEye. At the top, it says "Branch fisheye-FE\_SVN\_BRANCH". Below that, it shows file details: "6267 annotated / raw | Diff: previous, other | Lines: 55 ( +0, -11 )". It also shows creation info: "Created: 2005-06-20 01:27:05 +1000 (2 years 7 months ago) | Author: conor | Changeset: 6267". A note says: "NONE: Handle files with no logical path. Pass config around to have access to username/password info". The "Tags" section lists: "fisheye-build-82 fisheye-build-87 fisheye-build-88 fisheye-build-90 fisheye-build-91". Below the tags, the "Properties" section shows: "svn:eol-style = native", "svn:executable = \*", and "svn:keywords = Author Date Id Revision".

### How tag names are constructed

Hyphens are the default method for separating the tag elements, but tags in your FishEye instance may be different.

Your tag structure depends on several things:

- The symbolic structure of your repository
- The way your FishEye instance was set up
- Your organisation's convention for naming things in the repository
- The configurable character that separates parts of the tag name.

This can sometimes make it confusing to guess what the tag structure could be, when you are searching in FishEye or using an EyeQL query. Additionally, the separator between tag elements can be configured as hyphen, colon, or other punctuation marks.

Note that slashes cannot be used in a tag name – these are converted to colons by default. For example if your symbolic setup would give you a tag name like the following:

```
path/project/fisheye-build-82
```

then your tag should look like this:

```
path:project: fisheye-build-82
```

For more information, see [SVN Tag and Branch Structure](#).

## Repository Options

You can configure options for repositories that affect settings like caching, permissions, polling period, etc. Some configuration options are only

defined for individual repositories, whereas others affect all repositories (defaults).

**On this page:**

- [Configuring Options for a Specific Repository](#)
- [Configuring Options Affecting All Repositories](#)

## Configuring Options for a Specific Repository

To configure options for a specific repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the name of the repository in the list of repositories to manage the settings for that repository. The repository options for the repository will be displayed with the 'Summary' page shown.
  - Click the relevant link in the left menu to configure the desired options. None of the fields will be editable, unless you click the '**Edit**' button at the bottom of the page:
    - Summary — View the repository type (e.g. Subversion) and description. You can also perform common repository operations from this screen, see [Operations](#).
    - Maintenance — See [Indexer](#).
    - SCM Details — See [Configuring Repository Details](#).
    - Updates — See [Updater](#).
    - Linkers — See [Linkers](#).
    - Permissions — See [Permissions](#).
    - Allow (Process) — See [Allow \(Process\)](#).
    - Hidden Directories — See [Hidden Directories](#).
    - Tarballs — See [Tarball Settings](#).
    - Commit Messages — See [Commit Message Syntax](#).
    - Other Settings — See [Watches and Properties](#).
  - Click the '**Test Connection**' button to test FishEye's connection to the repository.
  - Click the '**Save**' button to save your changes and close the repository options window.
  - Click the '**Close Without Saving**' button to abandon any changes you made and close the repository options window.



Some changes will require the repository to be restarted, while others will require the repository to be re-indexed. FishEye will advise you if this is the case when you make the change. You can restart a repository from the '**Repositories**' screen, by using the '**Restart**' function for the desired repository. See [Managing your Repositories](#) for further details.

[Screenshot: Configuring repository options](#)

Repository "FE"

Summary

Maintenance

SCM Details

Updates

Linkers

Permissions

Allow (Process)

Hidden Directories

Tarballs

Commit Messages

Other Settings

Repository Status

Type: Subversion

Description: FishEye

State: Running

Actions: Stop  
Restart

[Browse Repository "FE"](#)

Recent Activity

Command	Started	Duration
info -r HEAD https://studio.atlassian.com/svn/FE@HEAD	Mon Oct 18 16:15:45 GMT+1100 2010	148ms
info -r HEAD https://studio.atlassian.com/svn/FE@HEAD	Mon Oct 18 16:15:30 GMT+1100 2010	74ms
info -r HEAD https://studio.atlassian.com/svn/FE@HEAD	Mon Oct 18 16:15:14 GMT+1100 2010	65ms
info -r HEAD https://studio.atlassian.com/svn/FE@HEAD	Mon Oct 18 16:14:59 GMT+1100 2010	69ms
info -r HEAD https://studio.atlassian.com/svn/FE@HEAD	Mon Oct 18 16:14:44 GMT+1100 2010	350ms
info -r HEAD https://studio.atlassian.com/svn/FE@HEAD	Mon Oct 18 16:14:29 GMT+1100 2010	79ms
info -r HEAD https://studio.atlassian.com/svn/FE@HEAD	Mon Oct 18 16:14:13 GMT+1100 2010	65ms

Test Connection

Save

Close Without Saving

## Configuring Options Affecting All Repositories

To configure options affecting all repositories,


1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Defaults**' link under the '**Repository Settings**' section in the '**Admin**' menu. The 'Repository Defaults' screen will display with the 'Linkers' tab shown.
3. Click the relevant tab to configure the desired repository default setting:
  - Linkers — See [Linkers](#).
  - Permissions — See [Permissions](#).
  - Allow (Process) — See [Allow \(Process\)](#).
  - Hidden Directories — See [Hidden Directories](#).
  - Tarballs — See [Tarball Settings](#).
  - Commit Messages — See [Commit Message Syntax](#).
  - Other Settings — See [Watches](#) and [Properties](#).
4. Click the '**Save changes**' button to save your changes. If you need to revert any changes, click the '**revert**' link next to the '**Save changes**' button.




Screenshot: Configuring default repository options



## Repository Defaults

[Linkers](#)
[Permissions](#)
[Allow \(Process\)](#)
[Hidden Directories](#)
[Tarballs](#)
[Commit Messages](#)
[Other Settings](#)

FishEye and Crucible can search for text patterns that appears in commit messages or comments and generate hyperlinks for them. This is often used to link bug IDs to your issue tracking system. 

Description	Type	Reg. Exp.	
project code linker for Edgy JIRA	Simple	(?i)(CLEP CCD CLN CBL CRU SHAJ)-\d+	
Atlassian-internal JIRA linker for the "CENQUA" project only	Simple	(?i)CENQUA-\d+	
sac issue linker	Simple	(?i)(FSH CRC)-\d+	
Add...			

or [revert](#)

### Related Topics

- [Allow \(Process\)](#)
- [Authentication](#)
- [Commit Message Syntax](#)
- [Configuring Repository Details](#)
- [Hidden Directories](#)
- [Indexer](#)
- [Linkers](#)
- [Operations](#)
- [Permissions](#)
- [Properties](#)
- [Store Diff Info](#)
- [Tarball Settings](#)
- [Updater](#)
- [Watches](#)

## Allow (Process)

By default, FishEye will cache and index your whole repository, and present all of this information to users. You can allow FishEye to process certain parts of your repository and/or disallow it from accessing other parts, by configuring inclusion/exclusion patterns for FishEye to follow. These patterns are set in the 'Allow (Process)' repository option.

### On this page:



- [Configuring Allow \(Process\)](#)
  - [Configuring Allow \(Process\) for a Specific Repository](#)
  - [Configure Allow \(Process\) for All Repositories](#)
- [Adding an Include](#)
- [Adding an Exclude](#)
- [Notes](#)
  - [Include/Exclude Processing](#)
  - [About Setting the Repository Root](#)

### Configuring Allow (Process)

You can configure the allow (process) option for a specific repository or configure linkers for all repositories.



#### Configuring Allow (Process) for a Specific Repository

To configure the allow (process) option for a repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.
4. Click the '**Allow (Process)**' tab. The 'Allow (Process)' screen will be displayed (see screenshot below).
5. Configure the includes/excludes for the repository as desired:
  - Click the '**Add...**' link to add a new include/exclude pattern. See the [Adding an Include](#) and [Adding an Exclude](#) sections below for further instructions.
  - Click the cog icon () next to a linker and click '**Edit**' from the dropdown menu to edit an include/exclude pattern. The editable 'Linker' dialogue is identical to the 'Add a Link' dialogue. See the [Adding an Include](#) and [Adding an Exclude](#) sections below for further instructions.
  - Click the cog icon () next to a linker and click '**Delete**' from the dropdown menu to delete the include/exclude pattern.
6. Save your changes.

#### **Configure Allow (Process) for All Repositories**


To configure the allow (process) for all repositories,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Defaults**' link. The 'Repository Defaults' will be displayed.
3. Click the '**Allow (Process)**' tab. The 'Allow (Process)' screen will be displayed (see screenshot below).
4. Configure the includes/excludes for all repositories as desired:
  - Click the '**Add...**' link to add a new include/exclude pattern. See the [Adding an Include](#) and [Adding an Exclude](#) sections below for further instructions.
  - Click the cog icon () next to a linker and click '**Edit**' from the dropdown menu to edit an include/exclude pattern. The editable 'Linker' dialogue is identical to the 'Add a Link' dialogue. See the [Adding an Include](#) and [Adding an Exclude](#) sections below for further instructions.
  - Click the cog icon () next to a linker and click '**Delete**' from the dropdown menu to delete the include/exclude pattern.
5. Save your changes.

*Screenshot: Configuring allow (process) for all repositories*

## Repository Defaults

[Linkers](#)
[Permissions](#)
[Allow \(Process\)](#)
[Hidden Directories](#)
[Tarballs](#)
[Commit Messages](#)
[Other Settings](#)

By default, FishEye and Crucible will cache and index your whole repository, and present all of this information to users. Configure includes and excludes to control which parts of your repository will be accessed. 

### Includes

Tree	Case Sensitive
No includes defined. Everything will be included by default.	
<a href="#">Add...</a>	

### Excludes

Pattern	Case Sensitive
/CVSROOT/	false 
<a href="#">Add...</a>	

[Save changes](#) or [revert](#)

### Adding an Include

The 'Includes' subsection of the 'Allow (Process)' screen defines what subtrees of your repository FishEye will index. FishEye defaults to including 'everything'. If you specify some 'include' directories, then FishEye will process only those directories (and all their subdirectories). For instance, you might want to do this to limit FishEye to the subset of active projects in your repository. Each include specifies the path to a subtree to be processed. Paths are expressed relative to the repository root configured in the repository configuration.



Includes do not support [Antglobs](#). They are also defined relative to where FishEye connects to your repository. To match the 'tags' subtree, simply use `/tags`. Please note that [Excludes](#) can still make use of Antglobs.

To add a new include,

1. Navigate to the linkers for a specific repository or the repository defaults, as described [above](#), and click the 'Add...' link to add a new linker. The 'Add a Linker' dialogue will be displayed.
2. Complete the fields on the dialogue as follows:
  - **'Tree'** — Enter the tree of your repository that you want to include. See the [example](#) below.
  - **'Case Sensitive'** — Tick this checkbox if you want your include to be case-sensitive. By default, Includes are case-sensitive but they can be configured to be case-insensitive. If your repository is set to be case-insensitive ( [Perforce](#)) then Includes will also be case-insensitive, regardless of how the individual Includes are configured.

### Example:

- Including directories:

PROJECT1

The code above **includes** `/PROJECT1` and all its children (sub-directories and their contents). You could specify `/PROJECT1/` and `/PROJECT2/` to include both of these directories in FishEye's indexing.

### Adding an Exclude

The '**Excludes**' subsection of the '**Allow (Process)**' screen allows you to specifically exclude files and directories from those which have been included in indexing. FishEye will not process these files and directories. Each exclude is an [Antglob Pattern](#).

To add a new linker,

1. Navigate to the linkers for a specific repository or the repository defaults, as described [above](#), and click the '**Add...**' link to add a new linker. The 'Add a Linker' dialogue will be displayed.
2. Complete the fields on the dialogue as follows:
  - '**Pattern**' — Enter the pattern for directories/files that you want to exclude. See the [examples](#) below.
  - '**Case Sensitive**' — Tick this checkbox if you want your exclude to be case-sensitive. By default, Excludes are case-sensitive but they can be configured to be case-insensitive. If your repository is set to be case-insensitive ( [Perforce](#)) then Excludes will also be case-insensitive, regardless of how the individual Excludes are configured.

#### Examples:

- Excluding directories:

```
/PROJECT2/
```

The code above **excludes** /PROJECT2 and all its children (sub-directories and their contents).

- Excluding file types:

```
**/*.*.OBJ
```

The code above **excludes** any OBJ (object) files.



Changes to Includes and Excludes do not take effect until the repository is restarted. If you do not re-index when changing the includes and excluded, files and directories which have been indexed prior to the update will remain visible in FishEye.

## Notes

### Include/Exclude Processing

When processing includes and excluded, FishEye merges the includes and excludes from the repository itself with those from the repository defaults. The repository's specific includes and excludes take priority over those of the repository defaults. Once merged, FishEye processes include definitions first and then excludes. If there are any includes defined a path must match at least one of those includes to be considered. If there are no include patterns defined, all paths are considered to be included. Once includes have been processed, a path which is a candidate for processing is tested against any defined excludes. If the path matches any of the exclude patterns, the path is excluded and not included in FishEye.

### About Setting the Repository Root

When you are setting the Allow (Process), you should be aware that the options on this page only act on the parts of the repository that lie under the level of the repository root, which you configure as a directory location in your repository. In other words, FishEye can only access directories "lower" than the repository root. For example, consider a repository with the following structure:

```
/CORE/2007/LEGACY/  
/CORE/2008/PROJECT1/  
/CORE/2008/PROJECT2/
```


In this case, you could set the repository root (or 'Path') to be /CORE/2008/. In that situation, you would be able to include or exclude the /PROJECT1/ and /PROJECT2/ directories, but the /CORE/2007/LEGACY/ directory would not be available. To have FishEye index all of the directories in this repository, you would need to set the repository root path to be /CORE/. Then, you could use the includes and excludes to add and remove directories under /CORE/ from FishEye's scan. For more information, see the [Subversion configuration page](#) and read the 'Path' options.

## Authentication

SCMs typically support simple username and password combinations for authentication. However, in FishEye and Crucible, more complex authentication styles are supported for the following repository types:

- Mercurial
- Git

The configuration of these authentication styles in FishEye is described below. Note, the authentication style can also be configured as part of a particular repository's definition.

 Although Subversion supports more complex authentication styles like ssh and ssl certificate authentication, these are not currently configurable in FishEye. When using the bundled svnkit library, these are typically configured using Java property definitions.

#### On this page:

- [Authentication Styles](#)
  - [No Authentication](#)
  - [Generate Key Pair for SSH](#)
  - [Upload Private Key for SSH](#)
  - [Password](#)
- [Notes](#)
  - [Security Considerations when using SSH Key Pairs](#)
  - [Using ssh-agent](#)
  - [SSH Connectivity Tools under Windows](#)

## Authentication Styles

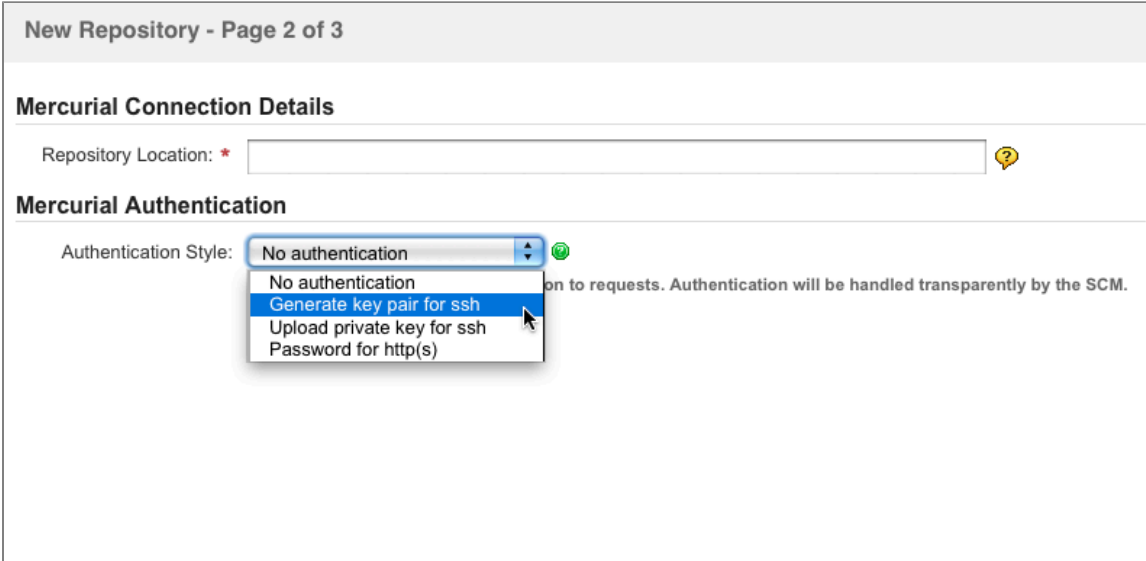
The authentication styles are configured as part of a particular repository definition.

There are four authentication styles for a repository:

- [No Authentication](#) — Used where no authentication is required to access a repository.
- [Generate Key Pair for SSH](#) — A SSH key is generated and managed by FishEye to access the repository.
- [Upload Private Key for SSH](#) — A SSH key is created and managed externally to FishEye.
- [Password for http\(s\)](#) — This is for the username / password style of authentication with http and https URLs (also known as basic-auth).

When a FishEye repository type supports these authentication styles, you will see an Authentication section during repository configuration (e.g. the "Mercurial Authentication" section in the "Selecting an Authentication Style" screenshot below). This section will be available when initially [defining a repository configuration](#) and also in the "SCM Details" section when [maintaining a repository](#).

#### Screenshot: Selecting an Authentication Style





**New Repository - Page 2 of 3**

**Mercurial Connection Details**

Repository Location: \*  ?

**Mercurial Authentication**

Authentication Style: No authentication   on to requests. Authentication will be handled transparently by the SCM.

- No authentication
- Generate key pair for ssh**
- Upload private key for ssh
- Password for http(s)

### No Authentication

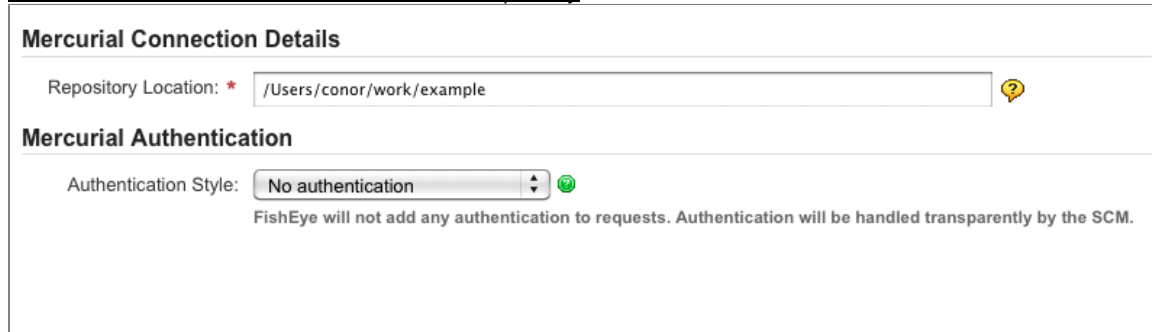
This is, the simplest authentication style. It means that FishEye can connect to the repository using Git or Mercurial without any credentials or authentication. If you have supplied credentials via another mechanism (such as ssh-agent or a default passphraseless private key for a ssh connection) Git or Mercurial will use this automatically.

This option is appropriate for,

1. public repositories which grant read-only access to anonymous users, or
2. internal repositories on a secure network which allow anonymous reads to network users, or
3. repositories which are accessible to the FishEye server on the local filesystem.

FishEye's access to repositories is always read-only, so it can easily be used with repositories which only require authentication and authorisation for write operations.

*Screenshot: No Authentication selected for a local repository*



**Mercurial Connection Details**

Repository Location: \*  ?

**Mercurial Authentication**

Authentication Style:  ?

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

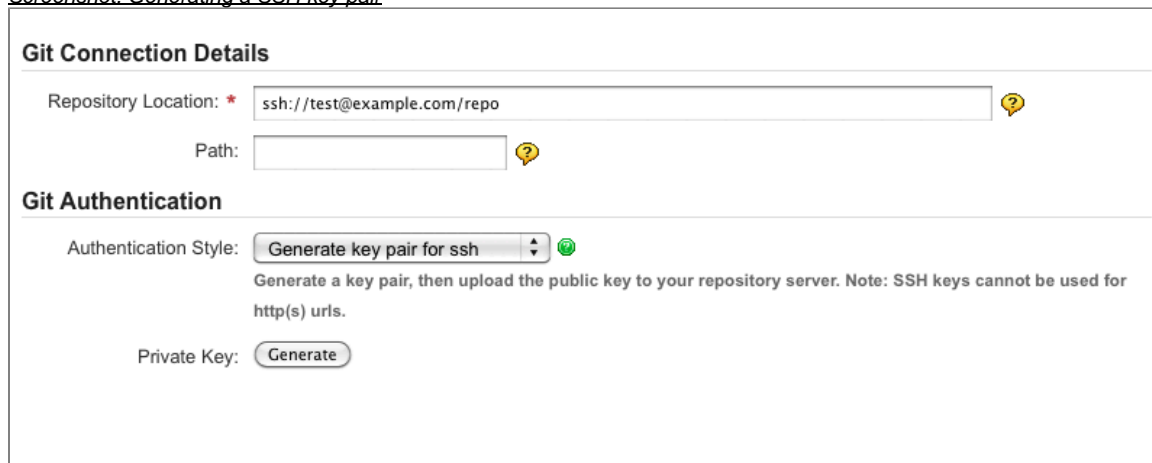
- If you specify "No Authentication" but enter a repository URL which includes a username and password, FishEye will remove the password from the URL and set the authentication style to "Password", storing the password specified in the password field.

### **Generate Key Pair for SSH**

This is the most secure option for ssh access, as the private key is never transmitted across the network. If you want to manage repository access using SSH keys, you can choose this style of authentication to have FishEye generate and manage the public/private key pair for you.

Click the '**Generate**' button to generate the key pair (see "Generating a SSH key pair" screenshot below). FishEye will generate and store the public and private key pair. The key is specific to the repository being indexed.

*Screenshot: Generating a SSH key pair*



**Git Connection Details**

Repository Location: \*  ?

Path:  ?

**Git Authentication**

Authentication Style:  ?


Generate a key pair, then upload the public key to your repository server. Note: SSH keys cannot be used for http(s) urls.

Private Key:

The public key will be displayed to allow you to copy it to your repository server and to associate the key with your user account (see "Public Key of Generated Key displayed" screenshot below). The private key is stored by FishEye and never exposed to users or administrators.

*Screenshot: Public Key of Generated Key displayed*

### Git Authentication

Authentication Style: Generate key pair for ssh 

Generate a key pair, then upload the public key to your repository server. Note: SSH keys cannot be used for http(s) urls.

Private Key: Private key has been generated by FishEye

Public Key:

```
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQGCPCd/T5PEvaW4q1Nyvob0ZHI4wnv32WIHLU7iwwAZ
sOZumylj+0jM
/yWgECK6d6nDAcdldOoqjjoVgl7q1FojASuMx+1blzZYY0cY+YAO4gLtz1DPAxHivWLRy5inZT
RjDYmQTgsvhi1d5Jrl3L68d0icsxh/Yk6CoabAYIHvOQ== gittest on FishEye at
http://raleigh.sydney.atlassian.com:8080
```

Copy this public key to your repository server  
[Remove](#)

If you wish to change the key, you can remove the existing key by clicking the '**Remove**' link and then generate a new key.


When using SSH keys, you will typically specify a username as part of the URL you use to access the repository.

Public hosting systems such as Bitbucket and GitHub provide simple web-based mechanisms for associating public keys with your account. For these systems, a generic username is used in the repository URL and it is the key that determines the account. See the screenshots below for examples of how to associate keys with Bitbucket and GitHub accounts.

Screenshot: Key management on Bitbucket

### SSH Keys

Your SSH Public keys – Help: [Using SSH](#)



» ssh-rsa AAAAB3NzaC1yc2EAAAABIw ... .atlassian.com

[Add key](#)

Or you can upload your public key file here.

[Browse...](#) [Upload key](#)

Screenshot: Key management on GitHub

### Upload Private Key for SSH

If you are using SSH keys for repository access and already have an SSH key or you would prefer to manage your SSH keys yourself, this authentication style allows you to upload the private key to FishEye. Please note however, that FishEye can only use passphrase-less SSH keys (To vote for support for private keys with passphrases, see <http://jira.atlassian.com/browse/CRUC-5579>).



Generating a key within FishEye, as described [above](#), is **our preferred approach** to using SSH keys. We believe it is advisable to use a private key for a single purpose. Different access needs should use different keys. This option should only be used if you must use an existing key.

If you choose to use this option, you will be transmitting your private key across the network to your FishEye server. We **strongly recommend** that you [enable https for FishEye](#) before you do this.

The private key is uploaded by your web browser file upload operation. As soon as FishEye completes the file upload, it verifies that the provided key is in fact a valid private SSH key and that it does not have a passphrase. If you wish to change the stored key you must remove the current key by clicking the '**Remove**' link and then upload the new key.

#### Screenshot: Private Key Upload



**Tip:** If you are uploading under OSX and using 10.6 or later, you can press command-shift-period to display hidden files and directories. This makes it easier to access ssh key files stored in their default `~/.ssh` directory

### Password



This authentication style is used when using http/https to access your repository with a username and password. For these repositories, the repository URL includes the username for the account and the password is configured in the '**Password**' field (see "Password Authentication" screenshot below).

*Screenshot: Password Authentication*

**Mercurial Connection Details**

Repository Location: \*  ?

**Mercurial Authentication**

Authentication Style: Password for http(s) ?

Password:

It is possible to specify both the username and password in a repository URL. If you do this FishEye will warn you to remove the password from the URL definition, as it would conflict with the password specified in the password field. When using password authentication, FishEye will always manage the password separately from the repository URL.

*Screenshot: Do not provide password in URL*

**Mercurial Connection Details**

Repository Location: \* **You have included a password in the repository url which conflicts with the one in the 'password' field. You should remove the password from the url.**  ?

**Mercurial Authentication**

Authentication Style: Password for http(s) ?

Password:



- For git repositories, when using http basic authentication, git must be compiled with libcurl support. If this is not the case, authentication will fail with a message similar to:  
**error: git was compiled without libcurl support.**  
You will need to update your git installation or select an alternative authentication style.
- Password authentication using ssh is not currently supported by FishEye. You must use a key when using ssh.

## Notes

### Security Considerations when using SSH Key Pairs

The Generate Key Pair for SSH option is the safest option to use, as private keys are never transmitted across the network. If an attacker gains access to your private key, they have access to all the services that allow that keypair.

Since FishEye only requires read access to your accounts, it is best to create a user that only has read access to the repositories you want to index and add the public key to their account settings. This way, even if the private key is compromised, while your source can be accessed, you can easily revoke that user's access and/or remove their public keys and the attacker will not be able to change or modify any of your data.

### Using ssh-agent

If you are using a Unix style system with SSH key authentication and do not want to perform key management in FishEye at all, it is possible to

launch FishEye in the context of an `ssh-agent` process. When FishEye launches sub-processes to interact with the repository, the `ssh` command in those sub-processes will inherit access to the `ssh` keys in the `ssh-agent` process. This approach would allow you to use `ssh` keys with passphrases. Please refer to your operating system documentation for more information on `ssh-agent`.

### **SSH Connectivity Tools under Windows**

If your FishEye installation is using Windows, you must use [OpenSSH](#) for SSH connectivity, rather than alternatives like TortoiseHg or Putty.

## **Commit Message Syntax**

FishEye can render Wiki Markup in commit messages. This page contains instructions for turning this setting on and off. You can set this option as a global default, as well as individually per-repository.

 When using Crucible, you can also have [Wiki Markup rendering in review comments](#) and review descriptions.

On this page:

- [Configuring Commit Message Syntax for a Specific Repository](#)
- [Configure Commit Message Syntax for All Repositories](#)

### **Configuring Commit Message Syntax for a Specific Repository**

To configure commit message syntax for a repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.
4. Click the '**Commit Messages**' tab. The 'Commit Messages' screen will be displayed (see screenshot below).
5. Update the commit message syntax for this repository as follows:
  - Tick the '**Use the system default settings for commit message syntax**', if you want to use the system default settings for commit message syntax. The following fields will only be enabled if you do not tick this checkbox:
    - Select '**Interpret commit messages as**' to be either 'Plain text' or 'Wiki markup'. This determines whether wiki markup is rendered in commit messages or not.
    - Choose whether you want commit message syntax to be applied to all commits or commits after a specified date.
6. Save your changes.

[Screenshot: Configuring commit message syntax for a specific repository](#)

Repository "FE"

Summary

Maintenance

SCM Details

Updates

Linkers

Permissions

Allow (Process)

Hidden Directories

Tarballs

**Commit Messages**

Other Settings

Commit Messages

FishEye and Crucible can render Wiki markup in commit messages if present.

☐ Use the system default settings for commit message syntax

Interpret commit messages as: Wiki markup

☒ For all commits  
☐ Only for commits on or after:  
2010-09-24

Test Connection

Save and Test Connection

Save

Close Without Saving

### Configure Commit Message Syntax for All Repositories


To configure commit message syntax for all repositories,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an **administrator** to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Defaults**' link. The 'Repository Defaults' will be displayed.
3. Click the '**Commit Messages**' tab. The 'Commit Messages' screen will be displayed (see screenshot below).
4. Update the commit message syntax for this repository as follows:
  - Select '**Interpret commit messages as**' to be either 'Plain text' or 'Wiki markup'. his determines whether wiki markup is rendered in commit messages or not. The default is 'Plain text'.
  - Choose whether you want commit message syntax to be applied to all commits or commits after a specified date.
5. Save your changes.

Screenshot: Configuring commit message syntax for all repositories

## Repository Defaults

[Linkers](#)
[Permissions](#)
[Allow \(Process\)](#)
[Hidden Directories](#)
[Tarballs](#)
[Commit Messages](#)
[Other Settings](#)

FishEye and Crucible can render Wiki markup in commit messages if present. 

Interpret commit messages as:

- ☒ For all commits  
☐ Only for commits on or after:



or

## Configuring Repository Details


You can define the **SCM Details** for a repository when [adding](#) or [managing](#) a repository. The SCM details will vary depending on the type of repository that you are adding, e.g. the SCM details for a Subversion repository differ to the SCM details for a ClearCase repository.

On this page:

- [Configuring the SCM Details for a Repository](#)
- [Notes](#)

### Configuring the SCM Details for a Repository

To configure the SCM details for a repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.  
(You can also click the cog icon () and click '**View**' from the dropdown menu to open the Repository Options)
4. Click '**SCM Details**' in the left menu. The details for your repository will be displayed.
5. Click the '**Edit**' button at the bottom of the dialogue. The 'SCM Details' will refresh with the fields editable.
6. Update the fields as desired.
  - '**Description**' — Enter a description for the repository. This is used to describe the repository in FishEye screens.
  - '**Store Diff Info**' — Tick this checkbox, if you want FishEye to cache information about file diffs in its database. This is required for some FishEye features. This setting will be enabled by default for new repositories. See the [Notes](#) section below for important information on this setting.
  - The rest of the fields will vary depending on the SCM. See the following topics:  
*Note, the topics below are for adding a repository, however the fields are the same.*
    - [ClearCase](#)
    - [CVS](#)
    - [Git](#)
    - [Mercurial](#)
    - [Perforce](#)
    - [Subversion](#)
7. Click the '**Apply and Test Connection**' button to test your changes.
  - If you are happy with your changes, click the '**Save**' button to save your changes.
  - If you need to abandon your changes, click the '**Revert**' button.

[Screenshot: Configuring the SCM details for a Subversion repository](#)

Repository "FE"

Summary

Maintenance

SCM Details

Updates

Linkers

Permissions

Allow (Process)

Hidden Directories

Tarballs

Commit Messages

Other Settings

Basic Details

Description: FishEye

Store Diff Info: ☒

SVN Connection Details

SVN URL: \* https://studio.atlassian.com/

Path: FE

Username: tpetersen

Password: ●●●●●●●●

SVN Options

Block Size: 1000

Svn Operation Timeout:

Throttle Connections/s: 0.0

Charset: default (UTF-8)

Access Code:

Start Revision:

Initial Import: Do not import

Follow Base Moves: ☐

SVN Symbolic Rules

Use Built-in Symbolic Rules: ☐

And then Apply the Following Rules:

/trunk/..., /branches/NAME/..., /tags/NAME/...

Customise

	Regex	Name	Logical Path Prefix
Trunk	trunk(/ \$)	trunk	
Branches	branches/([^\s/]+)	\${1}	
Tags	tags/([^\s/]+)	\${1}	

Test Path

Test Connection


Edit

Close

## Notes

### About the 'Store Diff Info' Setting

Enabling the 'Store Diff Info' setting means that FishEye will store information about file diffs in its database, i.e. FishEye will store summary of what lines are added and removed between subsequent versions of the same file. You will still be able view file diffs regardless of whether this setting is enabled or disabled.

 Please note, you need to perform a **full re-index** of your repository after enabling this setting, for FishEye to collect the diff information for all revisions in your repository.

Please also take note of the following information about this setting:

- Disabling the 'Store Diff Info' setting will **disable per-author line graphs**.
- Diff information is always stored for **CVS repositories**. Note, that a full re-index is required to enable per author charts after upgrading from FishEye 1.4.3 or earlier.
- Enabling the 'Store Diff Info' setting will allow FishEye to perform text searches of lines added and removed, in addition to the text search


- of the trunk head.
- Enabling the 'Store Diff Info' setting for **Perforce repositories** will force FishEye to make extra requests to your depot in order to collect the diffs. This may substantially increase the time it takes to scan your repository (scan times for other repositories, like CVS and Subversion, are not affected by the 'Store Diff Info' setting). If your Perforce repository was created before FishEye 1.5, this setting will be disabled by default.

#### Related Topics

[Adding a Repository](#)  
[Repository Options](#)

## Hidden Directories

You can configure unused (deprecated) directories as 'hidden' in FishEye. Hidden directories will not be shown to users in the FishEye user interface, unless a user has specifically elected to view hidden directories in their [user profile](#). This can be useful if you have old directories that you don't want cluttering the screens by default. Please note, FishEye will still index and cache these directories.

 Note, this administration option does not affect the user's option of hiding **empty** directories and deleted files, when browsing a repository. See [Browsing through a Repository](#) for details.



#### On this page:

- Configuring Hidden Directories
  - Configuring Hidden Directories for a Specific Repository
  - Configure Hidden Directories for All Repositories
- Adding a Hidden Directory

### Configuring Hidden Directories



#### Configuring Hidden Directories for a Specific Repository

To configure hidden directories for a repository,

- Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
- Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
- Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.
- Click the '**Hidden Directories**' tab. The 'Hidden Directories' screen will be displayed (see screenshot below).
- Configure the hidden directories for the repository as desired:
  - Click the '**Add...**' link to add a new hidden directory pattern. See the [Adding a Hidden Directory](#) section below for further instructions.
  - Click the cog icon () next to a hidden directory pattern and click '**Edit**' from the dropdown menu to edit the pattern. The editable 'Hidden Directory' dialogue is identical to the 'Add Hidden Directory' dialogue. See the [Adding a Hidden Directory](#) section below for further instructions.
  - Click the cog icon () next to a hidden directory pattern and click '**Delete**' from the dropdown menu to delete the hidden directory pattern.
- Save your changes.

#### Configure Hidden Directories for All Repositories

To configure hidden directories for all repositories,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the **'Administration'** option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the **'Defaults'** link. The 'Repository Defaults' will be displayed.
3. Click the **'Hidden Directories'** tab. The 'Hidden Directories' screen will be displayed (see screenshot below).
4. Configure the hidden directories for all repositories as desired:
  - Click the **'Add...'** link to add a new hidden directory pattern. Hidden directory patterns for your repository defaults will be inherited by all repositories. See the [Adding a Hidden Directory](#) section below for further instructions.
  - Click the cog icon () next to a hidden directory pattern and click **'Edit'** from the dropdown menu to edit the pattern. The editable 'Hidden Directory' dialogue is identical to the 'Add Hidden Directory' dialogue. See the [Adding a Hidden Directory](#) section below for further instructions.
  - Click the cog icon () next to a hidden directory pattern and click **'Delete'** from the dropdown menu to delete the hidden directory pattern.
5. Save your changes.

Screenshot: Configuring hidden directories for all repositories

## Repository Defaults

[Linkers](#) [Permissions](#) [Allow \(Process\)](#) [Hidden Directories](#) [Tarballs](#) [Commit Messages](#) [Other Settings](#)

Any directory marked as hidden will not be displayed by FishEye and Crucible in its user interface (although it will still be indexed and cached). This is useful to hide unused, deprecated or erroneously committed directories. 🟢

Pattern	Case Sensitive
No hidden directories defined.	
<a href="#">Add...</a>	

[Save changes](#) or [revert](#)

## Adding a Hidden Directory

To add a new hidden directory,

1. Navigate to the hidden directories for a specific repository or the repository defaults, as described [above](#), and click the '**Add...**' link to add a new hidden directory pattern. The 'Add Hidden Directory' dialogue will be displayed.
2. Complete the fields on the dialogue as follows:
  - '**Pattern**' — Enter the pattern for directories that you want to be hidden in FishEye.
  - '**Case Sensitive**' — By default, hidden directory patterns are case-sensitive but they can be configured to be case-insensitive. If your repository is set to be case-insensitive ([Perforce](#)) then hidden directory patterns will also be case-insensitive, regardless of how the individual patterns are configured.
3. Click the '**Add**' button to add the hidden directory pattern.

Screenshot: Adding a new hidden directory pattern


**Add Hidden Directory**

Pattern

Case Sensitive: ☐

## Indexer

You can manually perform a number of indexing functions on your repositories in FishEye, such as re-indexing a repository or re-scanning (indexing) a repository.

 Note, an indexing scan for a repository can take hours or possibly days, depending on the size of the repository, network speed, machine performance and other factors.

To access indexing functions for a repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.
4. Click the '**Maintenance**' tab. Indexing information for the repository will be displayed as well as indexing functions (see screenshot below).
  - '**Repository Source Index**':
    - Click the '**Start**' button next to '**Scan for Updates**' to run a repository scan (also referred to as indexing) now. If the repository has already been indexed, it will be an incremental scan, otherwise an "initial" scan. This is especially useful if you have not set the repository to poll automatically, or it is set with a long poll (interval) period.
    - Click the '**Start**' button next to '**Re-index**' to delete the current cache and re-index the repository from the beginning. This action will also restart the repository.
  - '**Review-Revision Data Index**' — *(applies only when using Crucible with FishEye)* Click the '**Start**' button next to '**Re-index**' to re-index all the Crucible review data associated with the current repository.
  - '**Line Count Data Index**' — Click the '**Start**' button next to '**Re-index**' to re-index the linecount data used to generate the LOC (Lines Of Code) charts. The linecount data will be recalculated in daily buckets based on the server timezone.
  - '**Subversion Non-Version Properties (revprops)**' — *(Subversion repositories only)* Set the revision numbers to scan from and to, and click the '**Start**' button next to '**Re-index**' to rescan non versioned properties (revprops). In Subversion it is possible to enable non-versioned properties (e.g. the check-in comments) to be updated by committers. When this happens, FishEye will not automatically pick up the updates. By rescanning specific revisions, FishEye will rescan the non-versioned properties and amend the entry in FishEye accordingly.

Screenshot: FishEye Index Maintenance menu



Repository "FE"

Summary

**Maintenance**

SCM Details

Updates

Linkers

Permissions

Allow (Process)

Hidden Directories

Tarballs

Commit Messages

Other Settings

Indexing Status

Current Activity: **Idle**

Status Message: **N/A**

Last Index Update: **9 seconds ago**

Repository Source Index

Scan For Updates:  ?

Re-index:  ?

Review-Revision Data Index

Re-index:  ?

Line Count Data Index

Re-index:  ?

Subversion Non-Versioned Properties (revprops)

Re-scan:  from revision  to revision  ?

Test Connection

Save and Test Connection

Save

Close Without Saving

## Linkers

FishEye can render any issue IDs or Bug IDs that appear in commit messages or comments as hyperlinks. Users can click the links to quickly navigate to the relevant issue/bug in your issue/bug tracker. This link rendering relies on FishEye detecting certain substrings in commit messages and comments. You can configure the "linker" patterns that FishEye uses to detect these substrings for each repository in FishEye.

Please note, if you have set up [JIRA integration](#) between your FishEye instance and a JIRA server, you will need to disable linkers for that JIRA server. Otherwise, the linkers will override the integration features described on that page (which includes linkers).

### On this page:

- [Configuring Linkers](#)
  - [Configuring Linkers for a Specific Repository](#)
  - [Configure Linkers for All Repositories](#)
- [Adding a Linker](#)
- [Example Linkers](#)
  - [JIRA Examples](#)
  - [Bamboo Examples](#)
  - [Bugzilla Examples](#)
- [Configuring the SyntaxDef Field](#)

### Configuring Linkers

You can configure linkers for a specific repository or configure linkers for all repositories.

#### Configuring Linkers for a Specific Repository

To configure the linkers for a repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an **administrator** to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.
4. Click the '**Linkers**' tab. The 'Linkers' screen will be displayed (see screenshot below).
5. Configure the linkers for the repository as desired:
  - Click the '**Add...**' link to add a new linker. See the [Adding a Linker](#) section below for further instructions.
  - Click the cog icon (⚙️) next to a linker and click '**Edit**' from the dropdown menu to edit a linker. The editable 'Linker' dialogue is identical to the 'Add a Link' dialogue, except that you cannot change the link type. See the [Adding a Linker](#) section below for further instructions.
  - Click the cog icon (⚙️) next to a linker and click '**Delete**' from the dropdown menu to delete the linker.
6. Save your changes.

### Configure Linkers for All Repositories

To configure the linkers for all repositories,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an **administrator** to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Defaults**' link. The 'Repository Defaults' will be displayed, with the '**Linkers**' tab shown (see screenshot below).
3. Configure the linkers for all repositories as desired:
  - Click the '**Add...**' link to add a new linker. Any new linkers added in the repository defaults will be inherited by all repositories. See the [Adding a Linker](#) section below for further instructions.
  - Click the cog icon (⚙️) next to a linker and click '**Edit**' from the dropdown menu to edit a linker. The editable 'Linker' dialogue is identical to the 'Add a Link' dialogue, except that you cannot change the link type. See the [Adding a Linker](#) section below for further instructions.
  - Click the cog icon (⚙️) next to a linker and click '**Delete**' from the dropdown menu to delete the linker.
4. Save your changes.

*Screenshot: Viewing linkers for all repositories*

## Repository Defaults

Linkers
Permissions
Allow (Process)
Hidden Directories
Tarballs
Commit Messages
Other Settings

FishEye and Crucible can search for text patterns that appears in commit messages or comments and generate hyperlinks for them. This is often used to link bug IDs to your issue tracking system. 🐞

Description	Type	Reg. Exp.	
project code linker for Edgy JIRA	Simple	(?i)(CLEP CCD CLN CBL CRU SHAJ)-\d+	⚙️
Atlassian-internal JIRA linker for the "CENQUA" project only	Simple	(?i)CENQUA-\d+	⚙️
sac issue linker	Simple	(?i)(FSH CRC)-\d+	⚙️
Add...			

Save changes
or revert

### Adding a Linker

To add a new linker,

1. Navigate to the linkers for a specific repository or the repository defaults, as described [above](#), and click the **'Add...'** link to add a new linker. The 'Add a Linker' dialogue will be displayed.
2. Complete the fields on the dialogue as follows:
  - **'Linker Type'** — Select 'Simple' or 'Advanced'. Choose 'Simple' unless you are an experienced developer.
  - **'Description'** — Enter a description for your linker.
  - **'Regular Expression'** (*'Simple' Linker Type*) — Enter the regular expression defining the pattern that FishEye will look for when rendering links. FishEye uses the [Java regular expression language](#), which is based on Perl 5 regular expressions. You can test your regular expressions on this [online test page](#).
  - ✓ **Tip:** If you want your regex to be case insensitive, put `(?i)` at the start of the regex.
  - **'Href'** (*'Simple' Linker Type*) — Enter the destination of the link. For example, `http://jira.mycompany.com/browse/${0}`
  - **'SyntaxDef'** (*'Advanced' Linker Type*) — See [Configuring the SyntaxDef Field](#) section below.
3. Click the **'Add'** button to add the linker.
4. Save your changes.

✓ **Tip:** See the [Example Linkers](#) section below for examples of linkers to JIRA and Bugzilla servers.

*Screenshot: Adding a new linker*

### Example Linkers

Here are some examples of simple linkers.

#### JIRA Examples

⚠ Do not create linkers for a JIRA server, if you have already set up [JIRA integration](#) between your FishEye instance and that JIRA server.

- To link any occurrence of a JIRA-style issue to JIRA:

```
Regex: [a-zA-Z]{2,}-\d+
Href: http://jirahost:8080/browse/${0}
```

The regular expression above matches any sequence of two or more alphabetical characters, followed by a dash, followed by a number, which comprise the format of JIRA issue IDs (such as AB-123 or ABC-123 or ABCDE-123). Replace `jirahost` with the hostname of the desired JIRA instance.

- To link a specific set of JIRA projects (e.g. JRA, CONF and CRUC) to a JIRA instance:

```
Regex: (JRA|CONF|CRUC)-\d+
Href: http://jirahost:8080/browse/${0}
```

The regular expression above matches only specific JIRA issue keys with any number, like JRA-123 or CONF-123 or CRUC-123. Replace `jirahost` with the hostname of the desired JIRA instance.

### Bamboo Examples

- To link to specific Bamboo builds:

```
Regex: (ABC)-[a-zA-Z]+-\d+
Href: http://bamboohost/browse/${0}
```

The regular expression above matches Bamboo build IDs like ABC-MAIN-123 or ABC-BRANCH-123. These will then be made links to the build reports in your Bamboo instance. Replace `bamboohost` with the hostname of the desired bamboo instance.

### Bugzilla Examples

- To link bug numbers that occur at the start of a line to Bugzilla:


```
Regex: ^BUG: (\d+)
Href: http://bugzilla/bugzilla/show_bug.cgi?id=${1}
```

- To link bug numbers that occur after the word bug and optionally whitespace, "." or "#" (e.g. Bug123, bug:123, or BUG #123):

```
Regex: (?i)bug[#|\s|:]*(\d+)
Href: http://bugzilla/bugzilla/show_bug.cgi?id=${1}
```

The regular expressions above matches Bugzilla bug IDs. These will then be made links to build reports in your Bamboo instance.

### Configuring the SyntaxDef Field

 This is an advanced feature, intended for use by experienced developers only.

Please note;

- The **'description'** is optional.
- You will want to define the three region properties as in the example below.

This example matches numbers that appear after a PR: and might be separated by commas or 'and':

```
PR: 123
PR: 123 456
PR: 123, 456
PR: 123, 456 and 789
```

```
<syntaxdef>
/PR:\s*((\d+\s*(and|,)?\s*)+)/i : {
  nummatcher(${1});
}
context nummatcher {
  /\d+/ : {
    region {
      href="http://issues.apache.org/bugzilla/show_bug.cgi?id=${0}";
    }
  }
}
```

### Understanding the SyntaxDef example:


- The first regex matches means: match "PR:" followed by a sequence of numbers ("d+") separated by whitespace, "and" or commas.
- The "context" means in the above match, link each number individually.

## Operations

You can carry out operations such as stopping a repository scan, restarting a repository scan, disabling it, etc, via the [repositories list](#) or [repository summary](#) screens.

To access the operations for a repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.
4. A number of repository operations will be available next to the '**Actions**' field:
  - '**Stop**' ('Running' repositories only) — Stop the repository.
  - '**Restart**' ('Running' repositories only) — Restart the repository.
  - '**Enable**' ('Disabled' repositories only) — Enable the repository.

 More repository actions are available via the Repositories list. See [Managing your Repositories](#).

## Permissions

You can control access to specific repositories or all repositories in FishEye. Access can be restricted by user groups. You can also choose to allow anonymous access, i.e. anyone can browse your repositories.

On this page:

- [Configuring Permissions](#)
  - [Configuring Permissions for a Specific Repository](#)
  - [Configure Permissions for All Repositories](#)
- [Configuring Anonymous Access](#)
- [Configuring User Group Access](#)

### Configuring Permissions

You can configure permissions for a specific repository or configure linkers for all repositories.

#### Configuring Permissions for a Specific Repository

To configure the permissions for a repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.
4. Click the '**Permissions**' tab. The 'Permissions' screen will be displayed (see screenshot below).
5. Configure the permissions for the repository as desired:
  - Configure anonymous access — See [Configuring Anonymous Access](#) below.
  - Configuring user group access — See [Configuring User Group Access](#) below.
6. Save your changes.

[Screenshot: Configuring permissions for a specific repository](#)

Repository "FE"

Summary

Maintenance

SCM Details

Updates

Linkers

**Permissions**

Allow (Process)

Hidden Directories

Tarballs

Commit Messages

Other Settings

Anonymous Access

Anonymous access allows anyone to browse your repository.

☐ Use the system default settings for anonymous access to this repository
 ☐ Allow anonymous access for this repository

Access by Built-in Groups

There are default group restrictions defined for all repositories. They will be used in addition to any you define below.

You can instruct FishEye and Crucible to restrict the groups of users who can access the repository.
 ☒ Restrict access to the following groups:

Group	Allowed Access
KLDevToolsSupport	<input checked="" type="checkbox"/>
crucible-users-non-crowd	<input checked="" type="checkbox"/>
group.dot.name	<input type="checkbox"/>
accounts-payable	<input type="checkbox"/>
svn-private-repo	<input type="checkbox"/>
svn-public-repo	<input type="checkbox"/>
uploaders	<input type="checkbox"/>
upm-developers	<input type="checkbox"/>

If one or more groups are marked as allowed, only members of those groups may access the repository (unless otherwise authorised by your authentication settings). This will disable anonymous access.

Test Connection

Save and Test Connection

Save

Close Without Saving

### Configure Permissions for All Repositories

To configure the permissions for all repositories,


1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an **administrator** to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Defaults**' link. The 'Repository Defaults' will be displayed.
3. Click the '**Permissions**' tab. The 'Permissions' screen will be displayed (see screenshot below).
4. Configure the permissions for all repositories as desired:
  - Configure anonymous access — See [Configuring Anonymous Access](#) below.
  - Configuring user group access — See [Configuring User Group Access](#) below.
5. Save your changes.

Screenshot: Configuring permissions for all repositories

## Repository Defaults

[Linkers](#)
[Permissions](#)
[Allow \(Process\)](#)
[Hidden Directories](#)
[Tarballs](#)
[Commit Messages](#)
[Other Settings](#)

### Anonymous Access

Anonymous access allows anyone to browse your repositories. 

☐ Allow anonymous access to the repositories

### Access by Built-in Groups

You can instruct FishEye and Crucible to restrict the groups of users who can access the repositories.

☐ Restrict access to the following groups:

Group	Allowed Access
KLDevToolsSupport	<input type="checkbox"/>
crucible-users-non-crowd	<input type="checkbox"/>
group.dot.name	<input type="checkbox"/>
accounts-payable	<input type="checkbox"/>
svn-private-repo	<input type="checkbox"/>
svn-public-repo	<input type="checkbox"/>
uploaders	<input type="checkbox"/>
upm-developers	<input type="checkbox"/>

If one or more groups are marked as allowed, only members of those groups may access the repository (unless otherwise authorised by your authentication settings). This will disable anonymous access.

[or revert](#)

## Configuring Anonymous Access

To configure the permissions for all repositories,

1. Navigate to the permissions for a specific repository or the repository defaults, as described [above](#), and update the following fields:
  - **'Use the system default settings for anonymous access to this repository'** (*specific repository only*)--- Tick this checkbox if you want to use the system default settings for anonymous access, i.e. if you allow/disallow anonymous access in your repository defaults, this repository will also allow/disallow anonymous access respectively.
  - **'Allow anonymous access for this repository'** (*specific repository only*)--- Tick this checkbox to allow anonymous access to the specific repository, i.e. anyone can browse your repository.
  - **'Allow anonymous access to the repositories'** (*repository defaults only*) — Tick this checkbox to allow anonymous access to all repositories that been configured to use the system default settings for anonymous access.
2. Save your changes.

## Configuring User Group Access

To configure the permissions for all repositories,

1. Navigate to the permissions for a specific repository or the repository defaults, as described [above](#), and update the following fields:
2. Tick the 'Restrict access to the following groups' checkbox, if you want to specify access for particular user groups only.
3. Tick the checkboxes next to the groups that you want to give access to the repository(s). User group access for specific repositories is in addition to user group access granted for all repositories (via your repository defaults).
4. Save your changes.



For more information, see [Associating a Group with a Repository](#).

## Properties

You can configure a number of default or repository-specific properties for FishEye, including enabling/disabling changeset discussions and enabling/disabling the changelog calendar. A default property is inherited by all repositories. A default property may be overridden at the repository level.

### On this page:

- [Configuring Properties for a Specific Repository](#)
- [Configure Properties for All Repositories](#)

### Configuring Properties for a Specific Repository

To configure properties for a repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.
4. Click the '**Other Settings**' tab. The other settings screen will be displayed (see screenshot below).
5. Update the settings for this repository as desired:
  - Tick the '**Use the system default settings for changeset discussions**', if you want to use the system default settings for changeset discussions, i.e. if you enable/disable changeset discussions in your repository defaults, changeset discussions will be enabled/disabled for this repository respectively.
    - Tick the '**Allow changeset discussions**' checkbox, if you want to allow users to be able to comment on and have discussions in changesets. This checkbox will only be enabled if the '**Use the system default settings for changeset discussions**' checkbox is not ticked.
  - Configure settings for watches. See [Watches](#) for more information.
6. Save your changes.

[Screenshot: Configuring properties for a specific repository](#)



Repository "FE"

Summary

Maintenance

SCM Details

Updates

Linkers

Permissions

Allow (Process)

Hidden Directories

Tarballs

Commit Messages

Other Settings

Changeset Discussions

Users can comment on and have discussions within changesets.

☒ Use the system default settings for changeset discussions
 ☒ Allow changeset discussions

Watches

Users can request email notifications when commits are detected in certain parts of the repository.

☒ Use the system default settings for watches
 ☒ Allow users to watch for repository changes

Test Connection

Save and Test Connection

Save

Close Without Saving

### Configure Properties for All Repositories

To configure properties for all repositories,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an **administrator** to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Defaults**' link. The 'Repository Defaults' will be displayed.
3. Click the '**Other Settings**' tab. The other settings screen will be displayed (see screenshot below).
4. Update the settings for all repositories as desired:
  - Tick the '**Allow changeset discussions**' checkbox, if you want to allow users to be able to comment on and have discussions in changesets. This checkbox will only be enabled if the '**Use the system default settings for changeset discussions**' checkbox is not ticked.
  - Configure settings for watches. See [Watches](#) for more information.
5. Save your changes.

Screenshot: Configuring properties for all repositories

Repository Defaults

[Linkers](#)
[Permissions](#)
[Allow \(Process\)](#)
[Hidden Directories](#)
[Tarballs](#)
[Commit Messages](#)
[Other Settings](#)

### Changeset Discussions

Users can comment on and have discussions within changesets. 

☒ Allow changeset discussions

### Watches

Users can request email notifications when commits are detected in certain parts of the repository. 

☒ Allow users to watch for repository changes


or [revert](#)

## Store Diff Info

The Store Diff Info setting is configured as part of the general repository details. See [Configuring Repository Details](#) for more information.

### About the 'Store Diff Info' Setting

Enabling the 'Store Diff Info' setting means that FishEye will store information about file diffs in its database, i.e. FishEye will store summary of what lines are added and removed between subsequent versions of the same file. You will still be able view file diffs regardless of whether this setting is enabled or disabled.

 Please note, you need to perform a **full re-index** of your repository after enabling this setting, for FishEye to collect the diff information for all revisions in your repository.

Please also take note of the following information about this setting:

- Disabling the 'Store Diff Info' setting will **disable per-author line graphs**.
- Diff information is always stored for **CVS repositories**. Note, that a full re-index is required to enable per author charts after upgrading from FishEye 1.4.3 or earlier.
- Enabling the 'Store Diff Info' setting will allow FishEye to perform text searches of lines added and removed, in addition to the text search of the trunk head.
- Enabling the 'Store Diff Info' setting for **Perforce repositories** will force FishEye to make extra requests to your depot in order to collect the diffs. This may substantially increase the time it takes to scan your repository (scan times for other repositories, like CVS and Subversion, are not affected by the 'Store Diff Info' setting). If your Perforce repository was created before FishEye 1.5, this setting will be disabled by default.

## Tarball Settings

FishEye contains a feature that will build an archive of a directory tree. This feature is disabled by default. The '**Tarball Settings**' repository option allows you to customise tarball settings in the Repository Defaults and on a per-repository basis. You can set a limit on the number of files that a tarball can contain, as well as selectively disable the creation of tarballs for certain directories or directory trees.

On this page:

- [Configuring Tarball Settings for a Specific Repository](#)
- [Configure Tarball Settings for All Repositories](#)

### Configuring Tarball Settings for a Specific Repository

To configure tarball settings for a repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an **administrator** to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.
4. Click the '**Tarballs**' tab. The 'Tarballs' screen will be displayed (see screenshot below).
5. Tick the '**Allow users to download repository trees as tarballs**' checkbox, if you want to allow users to download repository trees as tarballs. The following field will be enabled:
  - '**Restrict the number of files in tarballs to**' — Choose either 'No limit', or choose 'No more than <number> files' and specify the number of files.
6. Configure '**Tarball Excludes**' for your repository. The creation of tarballs will not be permitted for directories/directory trees that are excluded:
  - Click the '**Add...**' link to add a new tarball exclude. Enter the '**Base Directory**' and select whether to '**Exclude subdirectories**' in the dialogue that displays.
  - Click the cog icon (⚙) next to a tarball exclude and click '**Edit**' from the dropdown menu to edit the pattern. The editable Tarball dialogue is identical to the 'Add an Exclude' dialogue. See the [Adding a Tarball Exclude](#) section below for further instructions.
  - Click the cog icon (⚙) next to a tarball exclude and click '**Delete**' from the dropdown menu to delete the tarball exclude.
7. Save your changes.

Screenshot: Configuring watches for a specific repository

### Repository "FE"

- Summary
- Maintenance
- SCM Details
- Updates
- Linkers
- Permissions
- Allow (Process)
- Hidden Directories
- Tarballs**
- Commit Messages
- Other Settings

### Tarballs

FishEye and Crucible allows users to download an tar archive file (tarballs) of directory trees.

☐ Use the system default settings for tarballs

☒ Allow users to download repository trees as tarballs

Restrict the number of files in tarballs to:

☒ No limit

☐ No more than:  files

Tarball Excludes:

Base Directory	Exclude Subdirs
No tarball excludes configured.	
<div></div>	
<div></div>	
<div></div>	
<div></div>	
<div>Add...</div>	

Test Connection

Save and Test Connection

Save

Close Without Saving

### Configure Tarball Settings for All Repositories

To configure watches for all repositories,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Defaults**' link. The 'Repository Defaults' will be displayed.
3. Click the '**Tarballs**' tab. The 'Tarballs' screen will be displayed (see screenshot below).
4. Tick the '**Allow users to download repository trees as tarballs**' checkbox, if you want to allow users to download repository trees as tarballs. The following field will be enabled:
  - '**Restrict the number of files in tarballs to**' — Choose either 'No limit', or choose 'No more than <number> files' and specify the number of files.
5. Configure '**Tarball Excludes**' for your repository. The creation of tarballs will not be permitted for directories/directory trees that are excluded:
  - Click the '**Add...**' link to add a new tarball exclude. Enter the '**Base Directory**' and select whether to '**Exclude subdirectories**' in the dialogue that displays.
  - Click the cog icon (⚙️) next to a tarball exclude and click '**Edit**' from the dropdown menu to edit the pattern. The editable Tarball dialogue is identical to the 'Add an Exclude' dialogue. See the [Adding a Tarball Exclude](#) section below for further instructions.
  - Click the cog icon (⚙️) next to a tarball exclude and click '**Delete**' from the dropdown menu to delete the tarball exclude.
6. Save your changes.

*Screenshot: Configuring tarball settings for all repositories*

## Repository Defaults

[Linkers](#)
[Permissions](#)
[Allow \(Process\)](#)
[Hidden Directories](#)
[Tarballs](#)
[Commit Messages](#)
[Other Settings](#)

FishEye and Crucible allows users to download an tar archive file (tarballs) of directory trees. 🌱

☐ Allow users to download repository trees as tarballs

Restrict the number of files in tarballs to:

☒ No limit
 ☐ No more than:  files

Tarball Excludes:

Base Directory	Exclude Subdirs
No tarball excludes configured.	
Add...	

or [revert](#)

## Updater

You can configure how often FishEye/Crucible checks if there have been new commits to the repository. In most cases, you will not need to change the default settings for this "updater" which polls your repository.

[To configure the updater for a repository,](#)

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.
4. Click the '**Updates**' tab. The 'Updates' screen will be displayed (see screenshot below).
5. Tick the '**Use the system default settings for updates**' checkbox to use the default updater settings. In most cases, you can leave this ticked. If you want to customise the updater settings, untick the checkbox and complete the following fields, as desired:
  - '**Disable polling**' — Tick this checkbox if you want to disable repository polling altogether. If you disable repository polling, FishEye/Crucible will only pick up new commits to this repository if you scan it manually. You can perform a manual scan of the repository via the [command line](#) or by using the '[Scan For Updates](#)' function on the repository 'Maintenance' screen.
  - '**Polling Interval**' — Specify how often FishEye will check to see if there have been any new commits to the repository. Use the following terms to specify particular units of time: `s`, `m`, `h`, `d`, `w`, `mo`, `y` (for seconds, minutes, hours, days, weeks, months and years respectively). For example, `10s`. The default value for this field is 60 seconds.
6. The following additional settings can be configured for [CVS](#) repositories. You should not have to change the default values in most cases:



FishEye will monitor your CVS history file `CVSROOT/history` to determine what has changed in your repository. FishEye will also periodically scan the whole repository. CVS is not always configured to create a history file. Talk to your CVS administrator if you need assistance.

- '**History file**' — Specify the location of the CVS history file. If you use a relative path, it must be relative to the CVS directory specified for this repository. The default value for this field is `./CVSROOT/history`.
  - '**Full scan period**' — Specify how often FishEye will perform a full scan of the repository. Use the following terms to specify particular units of time: `second`, `minute`, `hour`, `day`, `week`, `month`, `year`. For example, `10second`. If you do not specify a unit of time, the default unit is days. For example, `15min`. Set this field to '0' to disable the periodic full scan (you can still manually perform a full scan via the [command line](#)). The default value for this field is 15 minutes.
  - '**Strip prefix**' — Specify the prefix to strip off files found in the history file. This will make the files relative to this repository's CVS directory.  
You **must** configure a strip prefix if the CVS directory specified is not the root of the CVS repository. For example, your CVS is located at `/usr/local/cvsroot`, but you have specified `/usr/local/cvsroot/foo/bar` as the CVS directory of this repository. In this case, you will need to set the history file as `../../CVSROOT/history` and specify a strip prefix of `foo/bar`.
7. Click the '**Save**' button to save your changes.
  8. Restart FishEye, if you have changed any values. Your repositories will be scanned in order (depending on the number of threads you have configured) once FishEye starts up. The polling interval and full scan period (CVS only) will then be determined from the time that this initial scan is complete. For example, if you have set your polling interval to one hour, your next scan will begin one hour after your initial scan is complete.

[Screenshot: Repository Updates Settings](#)

Repository "FE"

Summary

Maintenance

SCM Details

**Updates**

Linkers

Permissions

Allow (Process)

Hidden Directories

Tarballs

Commit Messages

Other Settings

Updates

Settings which affect how often FishEye and Crucible will check if there are new commits to the repository. For most installations there is no need to define a custom updater.

☐ Use the system default settings for updates

Disable polling:

☐

Polling Interval:

Test Connection


Save and Test Connection

Save

Close Without Saving

## Watches

FishEye has a "watch" notification system that allows users to receive email notifications when commits are detected. Users can opt in for these notifications by "watching" a particular repository/activity stream. You can configure FishEye to enable or disable watches for all users for a specific repository or for all repositories.

 Please note, if you want to enable watches for your repositories, you must configure a valid [SMTP server](#).

On this page:

- [Configuring Watches for a Specific Repository](#)
- [Configure Watches for All Repositories](#)

### Configuring Watches for a Specific Repository

To configure watches for a repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.
4. Click the '**Other Settings**' tab. The 'Watches' section will be shown on the screen that is displayed (see screenshot below).
5. Configure the watches for the repository as desired:
  - '**Use the system default settings for watches**' — Tick this checkbox if you want to use the system default settings for watches, i.e. if you enable/disable watches in your repository defaults, watches will be enabled/disabled for this repository respectively.
  - '**Allow users to watch for repository changes**' — Tick/Untick this checkbox to enable/disable watches for the repository. This checkbox will only be enabled if the '**Use the system default settings for watches**' checkbox is not ticked.
6. Save your changes.

Screenshot: Configuring watches for a specific repository

## Repository "FE"

- Summary
- Maintenance
- SCM Details
- Updates
- Linkers
- Permissions
- Allow (Process)
- Hidden Directories
- Tarballs
- Commit Messages
- Other Settings**

### Changeset Discussions

Users can comment on and have discussions within changesets.

☒ Use the system default settings for changeset discussions

☒ Allow changeset discussions

### Watches

Users can request email notifications when commits are detected in certain parts of the repository.

☒ Use the system default settings for watches

☒ Allow users to watch for repository changes

Test Connection
Save and Test Connection
Save
Close Without Saving

### Configure Watches for All Repositories

To configure watches for all repositories,


1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an **administrator** to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Defaults**' link. The 'Repository Defaults' will be displayed.
3. Click the '**Other Settings**' tab. The 'Watches' section will be shown on the screen that is displayed (see screenshot below).
4. Configure the watches for all repositories as desired:
  - '**Allow users to watch for repository changes**' — Tick/Untick this checkbox to enable/disable watches for all repositories that been configured to use the system default settings for watches.
5. Save your changes.

Screenshot: Configuring watches for all repositories

## Repository Defaults


- Linkers
- Permissions
- Allow (Process)
- Hidden Directories
- Tarballs
- Commit Messages
- Other Settings**

### Changeset Discussions

Users can comment on and have discussions within changesets. 

☒ Allow changeset discussions

### Watches

Users can request email notifications when commits are detected in certain parts of the repository. 

☒ Allow users to watch for repository changes

Save changes or revert

## Configuring ViewVC Compatibility

For backwards-compatibility and legacy system support, FishEye contains a URL-compatibility mode with the ViewVC (formerly known as ViewCVS) and CVSWeb tools. This allows FishEye to supplant or extend ViewVC, making use of the URLs set up for ViewVC.

To configure ViewVC compatibility, click '**ViewCVS URL Mappings**' on the '**Admin Menu**'.

For example, a ViewVC URL of the form

```
http://host/viewcvs.cgi/x/y/z
```

can be viewed in FishEye at

```
http://fisheyehost/viewcvs/x/y/z
```

FishEye can be configured to determine exactly how it provides this compatibility mode. In particular, you can configure how to map ViewVC repository names (`cvsroot` or `root` in the query parameter) to FishEye repository names.

The **Default Mapping** can be used to configure which repository to use if no repository is specified in the URL. If a repository name is given in the URL, you can tell FishEye how to translate that to the name of a FishEye repository. Otherwise, FishEye will attempt to use the repository name given in the URL directly.

*Screenshot: Configuring ViewVC Compatibility*

**Viewcvs URL mappings** ?

**Default Mapping:** svn [Edit](#)

Viewcvs Name	Repository	Operations
Test	test	<a href="#">Edit</a>   <a href="#">Delete</a>
svn	svn	<a href="#">Edit</a>   <a href="#">Delete</a>

[Add mapping](#)

Once you have entered the mappings you will need to **restart** Fisheye.

## Configuring SMTP

To configure SMTP settings, click '**Server Settings**' on the '**Admin Menu**'.

You can enter the following parameters:

<b>From Address</b>	The from email address used when FishEye sends an email, e.g. 'fisheye-noreply@example.com'
<b>Send mail from</b>	Selects either the 'Server Address' (default, as above) or the 'User Address', which selects the email address in the user's profile. (Note: this only applies to Crucible notifications. FishEye will always use the Server Address.)
<b>SMTP Host Name</b>	The host name of the SMTP server.
<b>Enable debug</b>	Optional. Turn this on to enable debug logging from the mail server. Useful in tracking down mail server connectivity problems.
<b>SMTP Port</b>	Optional, defaults to 25. The port to connect to on the SMTP host.
<b>Use SSL/TLS</b>	Optional, defaults to 'False'. This turns on <a href="#">Secure Sockets Layer/Transport Layer Security</a> security for mail servers that require it, or use it by default.
<b>Username &amp; Password</b>	Optional. Username and password for authenticated SMTP access.

Once you have configured SMTP, you can use the '**Send test email**' link on the '**Server Settings**' page to confirm the SMTP connectivity.

*Screenshot: Configuring SMTP*



**Edit SMTP Config**

**From Address:**

**Send mail from:** ☐ Server Address (above) ☒ User Address

**SMTP Host name:**

*Optional settings:*

**Enable debug:**  ▼

**SMTP Port:**

**Use SSL/TLS:** ☒ True ☐ False

**Username:**

**Password:**

## Setting up a Repository Client

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

### CVS Client

FishEye supports CVS repository access, but this does not require installation of a separate client.

As FishEye reads your CVS repository directly from the local file system, using a CVS repository is a 'zero-installation' scenario. Once you have set up FishEye on the system where your CVS repository resides, FishEye should be able to access it automatically once you have configured it.

See [Configuring FishEye to access your CVS repository](#) for more information.

### Git Client

[Git 1.6](#) is supported at this stage.

#### Configuration

FishEye requires Git 1.6.0 or later. At present, you need to have the Git executables in the path of the user used to run your FishEye instance.

#### Related Links

- [Git Configuration](#)
- [Crucible Repository Configuration](#)
- [General Crucible Configuration](#)

### Mercurial Client

FishEye supports [Mercurial](#) version 1.5.1 or later (Python version 2.4.3 or later).


#### Configuration

To set the location of the Mercurial executable, carry out the following steps:

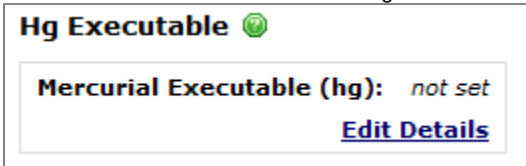
1. Open the FishEye Admin screen.

2. Select '**Server Settings**' under '**Global Settings**' in the left navigation bar.
3. Click '**Edit Details**' under '**Hg Executable**' in the configuration dialog.
4. Enter the path to your hg (Mercurial) binary executable.
5. Click '**Update**'.
6. Restart your FishEye server.

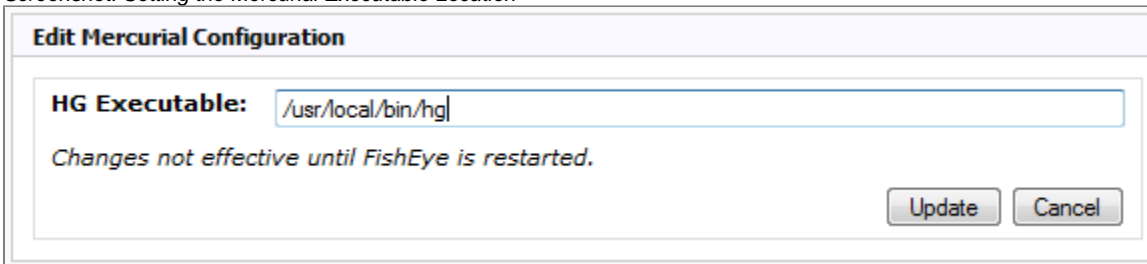
Following this process, you will be able to add your Mercurial repository to FishEye.

 FishEye requires Mercurial 1.5.1 or later.

*Screenshot: Mercurial Executable Settings*



*Screenshot: Setting the Mercurial Executable Location*



#### Submitting Feedback

We're very interested in your feedback. The best place for submitting feedback is the [FishEye forums](#).

#### Related Links

- [Mercurial Configuration](#)
- [Crucible Repository Configuration](#)
- [General Crucible Configuration](#)

## Perforce Client

FishEye can communicate with any Perforce *server*, but it needs to use the P4 command-line client to do so.

By default, FishEye looks for the `p4` executable in the current path. To specify the exact path of the `p4` executable, click '**Server Settings**' in the FishEye '**Admin Menu**'.



#### Files incorrectly considered binary

Some users have reported errors where FishEye considers some files to be binary when they are not. It appears this may be a limitation of earlier P4 clients. If you can upgrade to a recent P4 client (2006.1 onwards), this will fix this issue. You do not need to update the P4 Server.

If you are unable to upgrade to a recent P4 client, the [Repository Details](#) page in FishEye allows you to set a limit on the size of filelog commands sent to the server. Setting this to something around 100 will fix the issue. It will, however, also impact performance significantly.

## Subversion Client

FishEye can communicate with any Subversion *server* running version 1.1 or later, but it needs to use a Subversion *client* to do so.

The SVNKit client is included in the current FishEye package (version 1.4.2 onwards). This is the default client for interfacing with Subversion, is generally the easiest to use, requires "zero-installation" and will be used automatically unless another client is specified. The SVNKit client is recommended for most users.

The alternative is the native client, which should only be used if the SVNKit client is unsuitable.

- [Native Subversion Client](#)
- [SVNkit Client](#)



Using the 'file://' protocol to access your Subversion repository can be much faster than the other network protocols. We recommend using the 'file://' protocol if possible.



Using Subversion 1.3 or later is strongly recommended. Versions prior to 1.3 are no longer supported by the Subversion project. They will work with FishEye, but you may want to consider upgrading to a supported version.

## Native Subversion Client

### Native Client

FishEye can use a native Subversion client installed on your system, but your client needs to be version 1.2 or later, and **must include the JavaHL bindings**. FishEye can use all of the protocols supported by your native client.

The JavaHL bindings include a Java `.jar` file, typically named `javasvnhl.jar`, and a dynamic library such as `libsvnjavahl-1.so` or `libsvnjavahl-1.dll`. FishEye must be configured so it can find both the `.jar` and the dynamic library.

If the JavaHL dynamic library is in your library path (such as `%PATH%` on Windows), then FishEye will automatically find it. Otherwise you can tell FishEye where it is, or set the `FISHEYE_LIBRARY_PATH` environment variable before starting FishEye.

Acquiring native Subversion libraries for your operating system

Pre-compiled native clients are available for most platforms. The [Subversion download page](#) links to platform specific distributions. **Ensure you get the binary that includes JavaHL bindings**, as well as the standard package. Also ensure that the versions of the JavaHL and standard packages match.

- **Subversion for Windows:**

To install Subversion for Windows, visit [this page](#)

You need to download the standard package as well as the **JavaHL** version. The standard package is named `svn-X.Y.Z-setup.exe` and the JavaHL installer file is named `svn-win32-X.Y.Z_javahl.zip` where 'X.Y.Z' refers to the version number (for example, `svn-win32-1.4.6_javahl.zip` at the time of writing).

- **Subversion for Fedora Linux:**

For Linux systems using the yum package manager (such as Fedora Core 3 and above) you can type the following:

```
yum install subversion-javahl
```

at the Linux command line interface to install the JavaHL bindings for Subversion. Note that this will also install the standard Subversion library, which is required.

- **Subversion for Ubuntu and Debian Linux:**

For Linux systems using the apt-get package manager (such as Debian and Ubuntu) you can type the following:

```
apt-get install libsvn-javahl
```

at the Linux command line interface to install the JavaHL bindings for Subversion. Note that this will also install the standard Subversion library, which is required.


### Native Client Configuration

There are two ways you can configure the path to your Subversion client: Via the FishEye user interface, or by editing the `config.xml` configuration file.

Configuring your Native Client in the FishEye User Interface

You can configure your Subversion client in the FishEye Administration screens, under **Admin > Server Settings > Subversion Client**.

JAR	The path to the JavaHL <code>.jar</code> .
-----	--

Dynamic library	<p>The path to the dynamic library, if it is not already on your system's library path.</p> <p> Due to a bug in earlier versions of the JavaHL bindings, setting this value is ineffective unless you are using a Subversion client 1.2.3 or later.</p>
-----------------	--

#### Configuring your Native Client in the FishEye Configuration File

An alternative method to using the FishEye user interface is editing the `<svn-config>` section of your `config.xml`. If you change these settings, you need to restart FishEye.

#### Windows Platform Example (change path locations as required)

```
<svn-config jar="C:\subversion\lib\svn-javahl.jar" jnilib="C:\subversion\lib\libsvnjavahl-1.dll"/>
```

#### Mac OS X Platform Example (change path locations as required)

```
<svn-config jar="/opt/subversion/lib/svn-javahl/svn-javahl.jar"
jnilib="/opt/subversion/lib/libsvnjavahl-1.dylib"/>
```

#### Linux Platform Example (change path locations as required)

```
<svn-config jar="/usr/share/subversion/lib/svn-javahl.jar" jnilib="/usr/lib/libsvnjavahl-1.so"/>
```

## SVNKit Client

SVNKit is included in the current FishEye package, and is the default library for interfacing with Subversion. It is generally the easiest to use, and will be used automatically unless another library is specified.

See [Configuring Subversion repositories](#) for more information.



SVNKit supports the 'file://' protocol for FSFS repositories only.

SVNKit sometimes has problems working with Subversion servers which are running older versions, such as 1.1.x. If you see exceptions such as those listed below in FishEye's log file, you will need to either swap to [use the native client](#) or upgrade your Subversion server to version 1.3 or later.

#### Example exceptions:

- **SEVERE: assert #B**
- **Checksum mismatchwhile reading representation:**

#### Other Subversion Clients

Native Subversion Clients are also supported by FishEye as an alternative to SVNKit. This process requires additional configuration. Read the [Native Subversion Client instructions](#) for more information.

## Setting up your Web Server

To configure the server settings, click '**Server Settings**' on the '**Admin Menu**'.

- [Configuring the FishEye Web Server](#)
- [Integrating with Other Web Servers](#)

[Screenshot: Configuring Server Settings](#)

**Server Settings****Web Server** ⓘ

**HTTP Bind:** :6980  
**Web context:** crucible  
**Proxy scheme:** not set  
**Proxy host:** equity  
**Proxy port:** 80  
**Ajp13 bind:** ⓘ not set  
**Remote API:** ⓘ ON  
**Server timezone:** not set (defaulting to Australia/Sydney)  
**Site URL:** not set (defaults to http://equity/crucible/)

[Edit settings](#)**Mail Server** ⓘ

**From address:** internal-crucible@cenqua.com  
**Host name:** boags.sydney.atlassian.com  
**Port:** not set (defaults to 25)

[Edit config](#) | [Delete config](#) | [Send test email](#)
**Subversion client** ⓘ

**JAR:** /usr/lib/svn-javahl/svn-javahl.jar  
**Dynamic Library:** not set

[Edit Details](#)**Perforce client**

**P4 Executable:** not set

[Edit Details](#)

## Configuring the FishEye Web Server


To configure the server settings, click '**Server Settings**' on the '**Admin Menu**'.

For information on configuring **SSL for Fisheye**, see [FishEye SSL Configuration](#).



Some settings on this page require you to restart FishEye for changes to take effect.

Setting	HTTP Bind
Description	The hostname the FishEye web server will bind to. This can take the form of a host name and port number, or you can leave the host name blank. If no host name is specified, then FishEye will bind to all available interfaces.

<b>Examples</b>	<p>You can use bindings like the following:</p> <ul style="list-style-type: none"> <li>• <b>Host name and port number:</b> <div>hostname:8060</div> </li> <li>• <b>port number only</b> (requires a leading colon): <div>:8060</div> </li> <li>• <b>IP address and port number:</b> <div>10.0.0.11:60</div> </li> </ul> <p>(At least one of 'AJP13 Bind' or 'HTTP Bind' must be set.)</p> <div>  Do not add http:// to the front i.e. do not add <a href="http://hostname:8060">http://hostname:8060</a> or <a href="http://10.0.0.11:60">http://10.0.0.11:60</a>. Simply define hostname:port or IpAddress:port </div>
<b>Restart required</b>	Yes


<b>Setting</b>	<b>Web context</b>
<b>Description</b>	By default, the FishEye application can be accessed via <a href="http://HOST:PORT/">http://HOST:PORT/</a> , where HOST and PORT are defined as above. You can force the FishEye application to be hosted on a different 'context' or 'path' by specifying a value here.
<b>Example</b>	If you specify a web context of ' <b>fisheye</b> ' then FishEye will be accessible from <a href="http://HOST:PORT/fisheye/">http://HOST:PORT/fisheye/</a> instead of <a href="http://HOST:PORT/">http://HOST:PORT/</a> .
<b>Restart required</b>	Yes

<b>Setting</b>	<b>Proxy scheme</b>
<b>Description</b>	Can be set if you are forwarding through to FishEye from another web server.
<b>Example</b>	Valid settings are <code>http</code> and <code>https</code> .
<b>Restart required</b>	Yes

<b>Setting</b>	<b>Proxy host</b>
<b>Description</b>	Can be set if you are forwarding through to FishEye from another web server.
<b>Example</b>	A valid setting would be <code>www.example.com</code> , where 'example' is the domain name of your web server.
<b>Restart required</b>	Yes

<b>Setting</b>	<b>Proxy port</b>
<b>Description</b>	Can be set if you are forwarding through to FishEye from another web server.
<b>Example</b>	The port number of the web server, an integer from 0 through 32,765.
<b>Restart required</b>	Yes

<b>Setting</b>	<b>AJP13 Bind</b>
<b>Description</b>	The bind host name for ajpv13. If no host name is specified, then FishEye will bind to all available interfaces.

<b>Examples</b>	<p>You can use bindings like the following:</p> <ul style="list-style-type: none"> <li>• <b>Host name and port number:</b> <div>hostname:8009</div> </li> <li>• <b>port number only</b> (requires a leading colon): <div>:8009</div> </li> <li>• <b>IP address and port number:</b> <div>10.0.0.11:8009</div> </li> </ul> <p>(At least one of 'AJP13 Bind' or 'HTTP Bind' must be set.)</p> <div>  Do not add http:// to the front i.e. do not add <a href="http://hostname:8060">http://hostname:8060</a> or <a href="http://10.0.0.11:60">http://10.0.0.11:60</a>. Simply define hostname:port or IpAddress:port </div>
<b>Restart required</b>	Yes

Setting	Remote API
<b>Description</b>	Enables/disables FishEye's Remote API. Clicking on the help link will take you to the API doc.
<b>Example</b>	'On' enables the Remote API.
<b>Restart required</b>	No

Setting	Server timezone
<b>Description</b>	The time zone to use within FishEye. This time zone is used when displaying dates and parsing EyeQL date expressions. If blank, then the time zone of the server running FishEye is used.
<b>Example</b>	This defaults to the FishEye server's time zone, but you can select another zone from the drop-down list.
<b>Restart required</b>	No

Setting	Site URL
<b>Description</b>	The base URL for this FishEye instance. If not specified, FishEye will attempt to determine this value.
<b>Example</b>	This is used whenever you have set FishEye up in a sub-folder on the web server, for example <code>www.example.com/apps/fisheye</code> .
<b>Restart required</b>	No

See also [Subversion Client settings](#).

## FishEye SSL Configuration

This page contains instructions on using SSL with FishEye.

### On this page:

- 1. Obtain an SSL Certificate
  - Self-Signed Certificate
  - Certificate Authority Certificate
- 2. Configure FishEye SSL

## 1. Obtain an SSL Certificate

An SSL certificate is required in order for SSL to work in FishEye. There are two ways to obtain one:

- by [signing one yourself](#), or
- by getting one [signed via a Certificate Authority](#).

### Self-Signed Certificate

Self-signed certificates are useful in cases where you require encryption, but do not need to verify the website's identity. They are commonly used for testing and on internal corporate networks (intranets). If a certificate is not signed by a Certification Authority (CA), users may get prompted that the site is untrusted. They may then have to perform several steps to "accept" the certificate before they can access the site. This usually only occurs the first time the site is accessed.



Please note, the following approach to create the certificate uses **Java's keytool**, and has been designed for use with **Java 1.6**. There are other tools for generating certificates such as [openSSL](#), but the examples will be for keytools, unless the functionality required does not exist in keytools.

To obtain a self-signed certificate,

1. Run the following command to create a new keystore file in the FishEye home directory (if one does not already exist):

- **Windows:**

```
%JAVA_HOME%\bin\keytool -keystore %FISHEYE_HOME%\keystore -alias fisheye
-genkey -keyalg RSA
```

- **Unix/Linux:**

```
$JAVA_HOME/bin/keytool -keystore $FISHEYE_HOME/keystore -alias fisheye -genkey
-keyalg RSA
```

2. When the keytool utility prompts you with '**What is your first and last name?**', enter the **fully qualified hostname** of the server running FishEye/Crucible. Do not enter your first name and last name.



#### What is the fully qualified hostname of my server?

The fully qualified hostname of your server is the name you would type in your web browser, after the `http://` section, to access a conventional website. When the client web browser examines the certificate, it checks this field to make sure it matches the hostname. If it does not, the browser may prevent access to the site and will at least generate messages saying that there is a mismatch. An example of a qualified hostname is: `support.atlassian.com`

3. When the keytool utility prompts you to enter the keystore password and key password, enter your desired passwords. You must also specify these passwords in the FishEye/Crucible web admin (recommended) or specify these passwords directly in your `config.xml` in the corresponding attributes (see [Configure FishEye/Crucible SSL](#) below).

```
<web-server context="/crucible"
  site-url="http://localhost:6060/crucible/">
  <http bind=":6060"/>
  <ssl bind=":6443" keystore="keystore" keystore-password="password123"
    truststore="keystore" truststore-password="password123"/>
</web-server>
```

4. You now have the minimal requirements to run SSL in FishEye. Next, configure FishEye/Crucible to use SSL as described in the [Configure FishEye/Crucible SSL](#) section below.

### Certificate Authority Certificate



Digital Certificates issued by trusted 3rd party Certification Authorities (CAs) provide verification of the identity of your website. Many CAs simply verify the domain name and issue the certificate. Other CAs such as [VeriSign](#) also verify the existence of your business, the ownership of your domain name and the authority to whom the certificate application was made, thereby providing a higher standard of identification and authenticity.

A list of CA's can be found [here](#). Some of the most well-known CAs are:

- [Verisign](#)
- [Thawte](#)
- [CAcert](#) (relatively new CA, providing free CA certificates)



This list is not an endorsement of the given certificate authorities by Atlassian, and is only provided as an example.

**To obtain a certificate signed by a CA,**

1. Follow the instructions from the certificate authority you want your certificate signed by. Most CAs have their own instructions for you to follow, e.g. [GoDaddy](#) and [VeriSign](#).
2. If your CA requires a certificate signing request (CSR), use the following command:

- **Windows:**

```
%JAVA_HOME%\bin\keytool -certreq -alias fisheye -keystore
%FISHEYE_HOME%\keystore -file %FISHEYE_HOME%\fisheye.csr
```

- **Unix/Linux:**

```
$JAVA_HOME/bin/keytool -certreq -alias fisheye -keystore
$FISHEYE_HOME/keystore -file $FISHEYE_HOME/fisheye.csr
```

3. Ensure that the keystore being used to generate the signing request contains an existing key/cert keypair. If you don't already have a key/cert keypair, follow the steps in [Self Signed Certificates](#) to generate a keypair.
4. If you have a key and a certificate in separate files, you need to combine them into a PKCS12 format file for loading into a new keystore. Keytool does not perform any of these conversions. Therefore, the easiest way to do this is via openssl, by running the following command:

```
openssl x509 -in certificate.der
-inform DER -outform PEM -out certificate.crt
```

to convert between DER and PEM. See [these instructions](#) for information on how to convert these separate files into PKCS12 format.

5. Load the certificate into the keystore, as follows:

- CA certificate in PEM format:

- **Windows:**

```
%JAVA_HOME%\bin\keytool -keystore %FISHEYE_HOME%\keystore
-import -alias fisheye -file %FISHEYE_HOME%\certificate.crt
-trustcacerts
```

- **Unix/Linux:**

```
$JAVA_HOME/bin/keytool -keystore $FISHEYE_HOME/keystore
-import -alias fisheye -file $FISHEYE_HOME/certificate.crt
-trustcacerts
```

- CA certificate in PKCS12 format:

- **Windows:**

```
%JAVA_HOME%\bin\keytool -importkeystore
-srckeystore %FISHEYE_HOME%\certificate.pkcs12
-srcstoretype PKCS12 -destkeystore %FISHEYE_HOME%\keystore
```

- **Unix/Linux:**

```
$JAVA_HOME/bin/keytool -importkeystore
-srckeystore $FISHEYE_HOME/certificate.pkcs12
-srcstoretype PKCS12 -destkeystore $FISHEYE_HOME/keystore
```

6. You will now have a keystore file with your certificate in it. Next, configure FishEye/Crucible to use SSL as described in the [Configure FishEye/Crucible SSL](#) section below.

## 2. Configure FishEye SSL

FishEye requires additional configuration in order to use SSL. This configuration can be done from the web admin as described below

(recommended), or added directly into your `config.xml`. Setting the bind address and the keystore and password field, as described below, will enable SSL in FishEye. You will need to restart your server after updating the settings, for the changes to take effect.

To configure FishEye to use SSL,

1. Navigate to the FishEye web admin and click **'Server'** under the **'Global Settings'** section. The 'Server Settings' page will be displayed (see 'Server Settings' screenshot below).

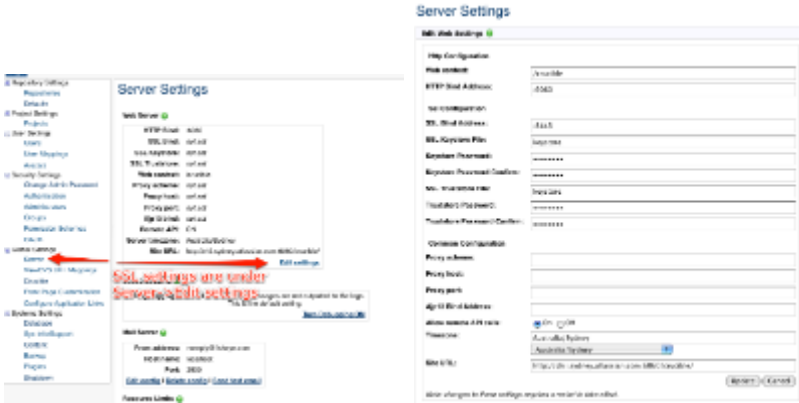
2. Click the **'Edit Settings'** link in the **'Web Server'** section. The settings will refresh as editable.

3. Update the following fields (see 'Example SSL Settings' screenshot below):

Field	Description	Example value
SSL Bind Address	The SSL port. Most browsers default to 443 as the SSL port for the https protocol.	443
SSL Keystore	Path to the keystore file (as generated in the steps above). This path can be a relative path - e.g., putting in <code>keystore</code> will mean that the file is in <code>FISHEYE_HOME/keystore</code>	keystore
SSL Keystore Password	The password you used in the above step when creating the keystore file. If you did not set a password, leave this empty. See the passwords section	
SSL Truststore	<b>Optional setting.</b> Path to the truststore file. May be the same as the keystore. Truststore is a list of trusted CAs. Format is the same as the keystore entry.	
SSL Truststore Password	<b>Optional setting.</b> The password you used in the above step when creating the truststore file. If you did not set a password, leave this empty. See the passwords section	

4. Restart your server.

Screenshots: [Fisheye Server Settings \(click to view larger images\)](#)



- 1. Server Settings
- 2. Example SSL Settings

## Integrating with Other Web Servers

FishEye has a built-in web server, but commonly runs in an environment that has its own web server. You can easily proxy through to FishEye from this primary web server, so that it appears as if FishEye is part of the primary web server.

In most situations, FishEye can determine the host and port of the primary web server automatically. This is useful when you have multiple virtual hosts proxied through to the one FishEye instance.

If it appears FishEye is having trouble automatically detecting the primary web server's host and port, you will need to set the **Proxy host** and **Proxy port** parameters. If the primary web server is running on `WEBHOST:80` and FishEye is running on `FEHOST:8060`, then you can set FishEye's **Proxy host** and **Proxy port** parameters to `WEBHOST` and `80`.

If the primary web server is using SSL, add the parameter `proxy-scheme="https"` to the connecting server as in the following example:

```
<http bind=":8080" proxy-host="extranet.example.com" proxy-port="443" proxy-scheme="https" />
```

You will probably want FishEye to appear in a subdirectory of the primary server. In that case, you need to set FishEye's **web context** parameter. The rest of the page assumes you have set this value to `fisheye`.

You will need to restart FishEye before any of the above parameters take effect.

Then, configure your primary web server as described below.

### Apache

The easiest way to proxy through to FishEye is using the `ProxyPass` directive, which requires the `mod_proxy` module. Add this section to your Apache configuration:

```
ProxyPass /fisheye http://FEHOST:8060/fisheye
```

If you want Apache to serve FishEye's static content, then you can do something like this instead:

```
<Directory "/FISHEYE_HOME/content/static" >
    Allow from all
    AllowOverride None
</Directory>
Alias /fisheye/static /FISHEYE_HOME/content/static
ProxyPass /fisheye/static/ !
ProxyPass /fisheye http://FEHOST:8060/fisheye
```



An alternative to using `ProxyPass` is to use `mod_rewrite` with the `[P]` flag.

### AJP

FishEye also supports AJPv13 connectivity. For more information, please see [AJPv13 Authentication](#).

## Contacting Support

### Raising a Support Request

There are two ways to raise a support request with Atlassian:

- (Recommended) Raise a support ticket directly via our [support site](#) on the internet and then create a [support zip](#). The advantage of this method, is that it includes all the relevant files `fisheye/crucible` support need. You can also be sure that the support case has been created and includes your logs.
- Complete the [support request form](#) via your FishEye **Administration Console**. The disadvantage of this method, is that your mail may not be forwarded correctly due to an issue or security restriction on your mail server. For example, the zip of your log files are huge, hence your mail server rejects the mail.

Both methods are described below.

#### *Raising a Support Ticket via the Internet*

Raise a support ticket via the [Atlassian Support System](#):

1. If you do not already have a free Atlassian support account, [create one here](#).
2. Lodge a detailed description of your problem in the new support ticket.
3. Fill in all applicable information about your system, such as application server, database, etc.
4. If FishEye is running, go to the '**Support/Sys Info**' screen in your **Administration Console** and copy the text of your system information into the ticket.
5. Go to Administration > Server Settings > Debug Logging, and turn debug logging "ON".
6. Reproduce the problem
7. Create a [support zip](#) to attach to the ticket. If your instance does not start up, attach a zip of your `FISHEYE_INST/var/logs` directory to the support case.
8. Log in to <https://support.atlassian.com> and select '**Create New Issue**'.
9. Once your ticket is lodged, wait to be notified by email of updates.

### Support Utility

**i** It is recommended that you add a support zip to every interaction with support. The utility will also dump your system information to the logs before zipping them.

You can also use this method to append system information to an existing support ticket.

1. Log in with as a person with admin access
2. Go to Administration > Sys Info/Support. Ensure that everything is checked, then click on "Create Support Zip" button.
3. Attach the created support zip, to the support case [you raised](#).

A screenshot of the Create Support Zip form is shown below:

The screenshot shows the FishEye Administration Console interface. On the left is the 'Admin Menu' sidebar with categories: Repository Settings, Project Settings, Global Settings, and System. The 'System' category is expanded, showing 'Database Configuration', 'Sys-Info/Support', 'Content', and 'Backup'. The 'Sys-Info/Support' option is highlighted. The main content area is titled 'Support' and contains a 'Create Support Zip' section. This section includes instructions to create a support zip to attach to a support case, a note about patience, and four checked checkboxes: 'Attach FishEye and Crucible Logs', 'Attach Config File', 'Attach Plugins Configuration', and 'Attach Thread Dump(s)'. Each checkbox has a brief description of what it includes and a recommendation. At the bottom of the form is a 'Create Support Zip' button.

### Raising a Support Ticket via the Fisheye Administration Console

**i** Ensure that [SMTP email](#) is set up on your Fisheye instance and your mail server allows zip files.

The advantage of this method is that it is convenient, however the disadvantage is that your mail may not be forwarded correctly due to an issue (e.g. zip file too large) or security restriction on your mail server.

You can also use this method to append system information to an existing support ticket.

On the left navigation bar, click '**Sys-Info/Support**'.

*Screenshot: The Sysinfo/Support Menu Option*



The **System Info/Support** page loads. On this page, you can fill out a web form which will automatically send an email to Atlassian Support, attaching your FishEye logs and configuration file (if you wish).

**i** This functionality requires that the FishEye web server is already set up and capable of sending email.

*Screenshot: The System Info/Support page*

Support Request

Complete as much information as you can and then click 'Send Support Request' to send your request to Atlassian Fisheye Support.  
Note: Please be patient when submitting this form. It may take a few minutes depending on how long it takes to export your data to a file.

**\*Subject:**

Enter a one line summary of the problem.

**Priority:**

**\*Description:**

**Existing Support Request:**

To create a new support request, simply leave this field blank.  
Or: To attach the information on this page to an existing support request, please enter the relevant issue key (eg. FSP-123).

**Contact Name:**

**Contact Email:**

Enter a comma-separated list of email addresses

**Contact Number:**

☒ **Attach Fisheye Logs**

Zip and attach the log file that FISHEYE generates (recommended).

☒ **Attach Config File**

Zip and attach your config file(recommended).  
Atlassian will handle your data with strict confidence and will not disclose it to any third parties.  
NOTE: Your config file is NOT anonymised.

## Fields in the Support Request form

On the **Support Request** form there are a number of fields to fill out and options to select.

- **'Subject':** Enter a one line summary of the problem.
- **'Priority':** Choose from Low, Medium, High or Critical.
- **'Description':** Type a detailed description of the problem you are trying to solve.
- **'Existing Support Request':** Leave this field blank to create a new support request. If you have an existing support ticket open at support.atlassian.com, enter the issue key here. This will append this request to the existing ticket.
- **'Contact Name':** Your contact name.
- **'Contact Number':** Your contact number.
- **'Attach FishEye Logs':** Tick this box to send Atlassian your FishEye log file.
- **'Attach Config File':** Tick this box to send Atlassian your FishEye configuration file.
- **'Support Entitlement Number (SEN)':** Paste your Support Entitlement Number. See [Finding Your FishEye or Crucible Support Entitlement Number \(SEN\)](#).

When you have filled out the required fields, click '**Send Support Request**' to finish.



Note that the form may take several minutes to fully submit, as it takes some time to export and process the log file data.

## Finding Your FishEye or Crucible Support Entitlement Number (SEN)

There are three ways to find you Support Entitlement Number (SEN):

### ▼ Method 1: Check in the FishEye Administration Interface

Select Administration >> SysInfo/Support. The SEN is shown:

**Method 2:**  
Log into [my.atlassian.com](http://my.atlassian.com) as the Account Holder or Technical Contact

The screenshot shows the Atlassian my.atlassian.com interface. The user is logged in as the Account Holder or Technical Contact. The page displays the 'Support' section with a 'Support Entitlement Number' highlighted. The user is welcomed and informed that they have been an Atlassian customer for 3 years. The page lists the user's licenses, including 'Confluence 2 Users: Personal Server' and 'Confluence 500 Users: Commercial License'. The 'Confluence 500 Users: Commercial License' is selected, showing details such as the license key, support expiration date (10 Apr 2011), and a link to 'Request Support'. The 'Support Entitlement Number' (SEN) is also displayed.

**Support Entitlement Number**

Welcome

Hey [redacted] you've been an Atlassian customer for 3 years now. Thank you for your support! You can manage your 8 licenses below. For questions relating to managing your account, licensing or purchasing, please see the [purchasing and licensing FAQ](#) or [contact a customer service representative](#). To request technical support, please visit our [Support Portal](#).

**Licenses** [New Evaluation License](#) | [Expand All](#) | [Collapse All](#)

Product	Name	Support Expires	Support
Confluence 2 Users: Personal Server	[redacted]	02 Jun 2009	
Confluence 500 Users: Commercial License	Atlassian	10 Apr 2011	<a href="#">Request Support</a>

Name : Atlassian (edit)

SEN: [redacted]

Server ID: [redacted] (edit)

Technical Contact: [redacted]

Email:

Add

Billing Contact: [redacted]

Email:

Add

Licensed To: Atlassian

License: [redacted]

This license key is compatible with Confluence 3 or above. If you are using an older version of Confluence, you can [downgrade your license key](#).

Actions: [Renew](#) | [Upgrade](#) | [Download Source](#) | [View Developer License](#)

History:

10 Apr 2008	Initial Purchase
10 Apr 2009	Maintenance Renewal
01 Jun 2009	Converted to Confluence 500 Users: Commercial License
10 Apr 2010	Maintenance Renewal

### Method 3: Atlassian Invoice

Your Support Entitlement Number (SEN) appears on the third page of your Atlassian Invoice.

See [Finding Your Support Entitlement Number](#) in the support space for more general information about how Atlassian Support uses this number.

## Migrating to an External Database

This page contains instructions for migrating from your default embedded FishEye database to an external database. You may want to migrate to an external database for the following reasons:

- Improved Protection Against Data Loss:** The FishEye built-in database, which runs [HSQldb](#), is susceptible to data loss during system crashes. External databases are generally more resistant to data loss during a system crash. As of FishEye 2.4, HSQldb is not supported in production environments and should only be used for evaluation purposes.
- Performance & Scalability:** If you have a large number of users on your FishEye instance, running the database on the same server as FishEye may slow it down. When using the embedded database, the database will always be hosted and run on the same server as FishEye.
- Data Stored in the FishEye Database:** The FishEye database stores information besides the cache for repository scans. Specifically, user data and user preferences information.

## Overview

You can use a number of alternatives to the built-in HSQLDB database for storing FishEye and Crucible's relational data. The supported alternative databases are listed on the [Supported Platforms](#) page. Please note, that only the database versions listed on that page are supported.

The pages linked below outline the steps required to switch to an external database:

- [Migrating to MySQL Enterprise Server](#)
- [Migrating to Oracle](#)
- [Migrating to PostgreSQL](#)

## Support for other Databases

If you are looking for support for Microsoft SQL Server, please vote for the issue below:

- **Request MS-SQL Support:** [CRUC-1407](#)
- **Request DB2 Support:** [CRUC-1490](#)

If you are using another database product that you would like to see supported, please create a [JIRA issue](#) for it under the Crucible project.

## Migrating to MySQL Enterprise Server

To switch to a MySQL Enterprise Server, install MySQL Enterprise Server and follow the steps below. Please note that during the migration of database servers, the FishEye instance will not be available to users or to external API clients.

- [Install and Create a MySQL Database](#)
- [Configure FishEye to use MySQL, and Migrate Data](#)
  - [From FishEye's Administration](#)
  - [From the command line](#)
- [Further Resources](#)



### Install and Create a MySQL Database

1. The JDBC drivers for MySQL Enterprise Server are bundled with FishEye. Skip to step 2 if this meets your needs. If you want to install a specific, different version of the bundled JDBC driver, download the MySQL Enterprise Server JDBC driver (a `.jar` file) from the [download website](#) and copy the `.jar` file to your `FISHEYE_INST/lib` directory (create the `lib/` directory if it doesn't already exist). Move the existing JDBC `.jar` file to another location (and back it up). Restart FishEye or Crucible to have it pick up the new driver.
2. Create a UTF-8 Database:

```
CREATE DATABASE fisheye CHARACTER SET utf8 COLLATE utf8_bin;
```

3. You will also need to set the `Server Characterset` to `utf8`. This can be done by adding the following in `my.ini` for Windows or `my.cnf` for other operating systems. It has to be declared in the `Server` section, which is the section after `[mysqld]`:

```
[mysqld]
character-set-server=utf8
```

4. Use the `status` command to verify database character encoding information:  
*Screenshot: Using the MySQL Enterprise Server Status Command*



```
mysql> status
-----
/Applications/xampp/xamppfiles/bin/mysql Ver 14.12 Distrib 5.0.67, for apple-da
rwin8.11.1 (i686) using EditLine wrapper

Connection id:          5764
Current database:
Current user:           root@localhost
SSL:                    Not in use
Current pager:          stdout
Using outfile:          ''
Using delimiter:        ;
Server version:         5.0.67 Source distribution
Protocol version:       10
Connection:             Localhost via UNIX socket
Server characterset:    utf8
Db characterset:        utf8
Client characterset:    latin1
Conn. characterset:     latin1
UNIX socket:            /Applications/xampp/xamppfiles/var/mysql/mysql.sock
Uptime:                 29 days 1 hour 34 min 56 sec

Threads: 6  Questions: 49238134  Slow queries: 0  Opens: 460445  Flush tables: 1
Open tables: 4  Queries per second avg: 19.607
-----

mysql> 
```

5. Create a user that can log in from the host that Crucible or FishEye is running on and make sure that the user has full access to the newly created database. In particular, the user should be allowed to create and drop tables, indexes and other constraints.

For instance, when FishEye and MySQL Enterprise Server run on the same machine (accessible through `localhost`), issue the following commands (replacing username and password with the appropriate values):

```
mysql> grant all on fisheye.* to 'username'@'localhost' identified by 'password';
Query OK, 0 rows affected (0.00 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.01 sec)
```

## 2

### Configure FishEye to use MySQL, and Migrate Data

In order to migrate to a different database backend, you must create a backup of sql data, configure the database and finally import the data via a backup restoration process. This can be done from either the FishEye administration console, which streamlines the process, or via the command line tool which FishEye provides.

#### From FishEye's Administration

1. Navigate to the Database page in FishEye's Administration console
2. Then click **'Test Connection'** to verify that Crucible or FishEye can log in to the database:
3. Select `MySQL` from the database type
4. Fill in the appropriate fields, replacing the host, port, database name, username and password as required
5. Click on `Test Connection` to validate the values

*Screenshot: Testing the Connection*

### Database Configuration

To switch to a different database, specify the database's configuration settings in the form below and use the Test Connection button to verify that the database can be used. We are currently connected to the Oracle database at jdbc:oracle:thin:@localhost:1521:xe.

Changes to connection pool settings will take effect after the application is restarted before the new settings will take effect.

Type: Built-In PostgreSQL Oracle **MySQL**

Driver Location: User Supplied - FISHEYE\_INST/lib

URL:

User Name:

Password:

Minimum Pool Connections:

Maximum Pool Connections:

Parameters:


If this fails, verify that you have the MySQL Enterprise Server JDBC driver .jar file in the classpath (by placing the .jar file in FISHEYE\_INST/lib). Also, ensure that the database user can log in to the database from the machine that Crucible or FishEye is running on and that all the required privileges are present.

- Click 'Save & Migrate Data' to start the migration process.

During the migration process (which will take several minutes, depending on the size of your database and network throughput), the product will be inaccessible to users and external API clients. Users will see a maintenance screen that informs them of the process. Should the migration fail for any reason, FishEye will not switch to the new database and report on the encountered problems. Because the destination database may now contain some, but not yet all data, drop all tables, indexes and constraints before attempting a new migration.

*Screenshot: Migrating the Database*

### Migrating Database

 **Migrating database...**

**From:** jdbc:hsqldb:file:/Users/ervzijst/cenqua/demotion/var/data/crddb/crucible

**To:** jdbc:mysql://localhost/crucible

```

Started
Creating table definitions...
1 rows written, 0 tables completed.
9 rows written, 1 tables completed.
2328 rows written, 2 tables completed.
7327 rows written, 2 tables completed.
11143 rows written, 3 tables completed.
12676 rows written, 3 tables completed.
12740 rows written, 4 tables completed.
22739 rows written, 4 tables completed.
30492 rows written, 5 tables completed.
30493 rows written, 5 tables completed.
30497 rows written, 6 tables completed.
  
```

#### From the command line

- Create a backup of the `sql` data from the FishEye instance. Information on how to create a backup can be found at [Backing Up and Restoring FishEye Data](#)

2. Run the following command from the `bin` directory in `FISHEYE_INST`

```
$ ./fisheyectl.sh restore --sql \
    --file /path/to/backup.zip \
    --dbtype mysql \
    --jdbcurl jdbc:mysql://hostname/dbname \
    --username crucible \
    --password password
```

3. When the import is complete, FishEye can be started and will use MySQL

## 3

### Further Resources

[Troubleshooting Databases](#)

### Migrating to Oracle

To switch to an Oracle database, install Oracle and follow the steps below. Please note that during the migration of database servers, the FishEye instance will not be available to users or to external API clients.



Oracle support for FishEye and Crucible was introduced in version 2.5.0. In order to migrate to Oracle, your instance must be *currently running* at least version 2.5. If you are running an older version, then you will be required to first upgrade FishEye and then migrate.

- [Install and Create a Oracle Database](#)
- [Configure FishEye to use Oracle, and Migrate Data](#)
  - [From FishEye's Administration](#)
  - [From the command line](#)
- [Further Resources](#)

## 1

### Install and Create a Oracle Database

1. The JDBC drivers for Oracle are bundled with FishEye. Skip to step 2 if this meets your needs. If you want to install a specific, different version of the bundled JDBC driver, download the Oracle JDBC driver `.jar` file from the [Oracle website](#) and copy the `.jar` file to your `FISHEYE_INST/lib` directory (create the `lib/` directory if it doesn't already exist). Move the existing JDBC `.jar` file to another location (and back it up). Restart FishEye or Crucible to have it pick up the new driver.
2. Because creating a database with Oracle is a complex process, we recommend speaking to your resident DBA for creation of a new database for usage with Crucible. We *highly* recommend installing Oracle with the `AL32UTF8` encoding otherwise you may see encoding issues in the product.

## 2

### Configure FishEye to use Oracle, and Migrate Data

In order to migrate to a different database backend, you must create a backup of sql data, configure the database and finally import the data via a backup restoration process. This can be done from either the FishEye administration console, which streamlines the process, or via the command

line tool which FishEye provides.

## From FishEye's Administration

1. Navigate to the `Database` page in FishEye's Administration console
2. Then click '**Test Connection**' to verify that Crucible or FishEye can log in to the database:
3. Select `Oracle` from the database type
4. Fill in the appropriate fields, replacing the host, port, database name, username and password as required
5. Click on `Test Connection` to validate the values

*Screenshot: Testing the Connection*

**Database Configuration** 🟢

To switch to a different database, specify the database's configuration settings in the form below and use the Test Connection button to verify that the database can be used. We are currently connected to the PostgreSQL database at jdbc:postgresql://localhost/crucible.

Changes to connection pool settings will take effect after the next restart before the new settings will take effect.

Type: Built-In PostgreSQL Oracle MySQL

Driver Location: MySQL

URL: jdbc:oracle:thin:@localhost:1521:crucible

User Name: crucible

Password: .....

Minimum Pool Connections: 5

Maximum Pool Connections: 20

Parameters:

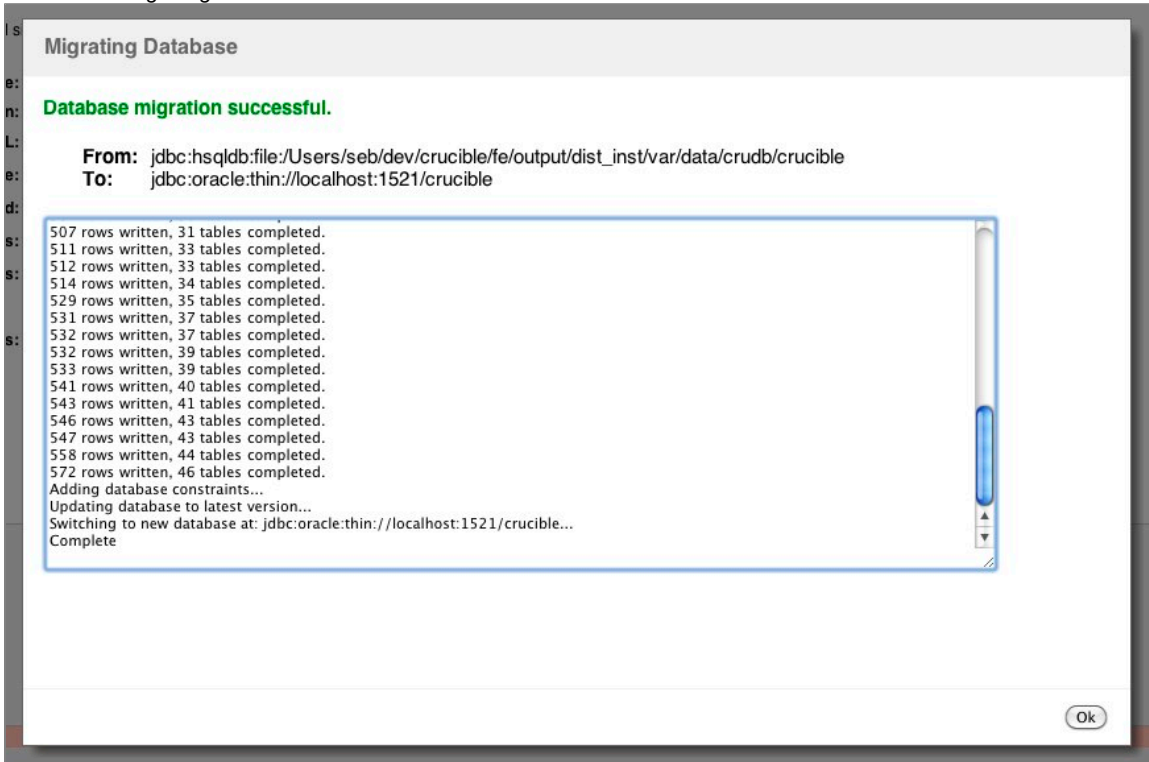
Cancel Save & Migrate Test Connection Save

If this fails, verify that you have the Oracle JDBC driver `.jar` file in the classpath (by placing the `.jar` file in `FISHEYE_INST/lib`). Also, ensure that the database user can log in to the database from the machine that Crucible or FishEye is running on and that all the required privileges are present.

6. Click '**Save & Migrate Data**' to start the migration process.

During the migration process (which will take several minutes, depending on the size of your database and network throughput), the product will be inaccessible to users and external API clients. Users will see a maintenance screen that informs them of the process. Should the migration fail for any reason, FishEye will not switch to the new database and report on the encountered problems. Because the destination database may now contain some, but not yet all data, drop all tables, indexes and constraints before attempting a new migration.

Screenshot: Migrating the Database



### From the command line

1. Create a backup of the `sql` data from the FishEye instance. Information on how to create a backup can be found at [Backing Up and Restoring FishEye Data](#)
2. Run the following command from the `bin` directory in `FISHEYE_INST`

```
$ ./fisheyectl.sh restore --sql \
    --file /path/to/backup.zip \
    --dbtype oracle \
    --jdbcurl jdbc:oracle:thin:@hostname:port:dbname \
    --username crucible \
    --password password
```

3. When the import is complete, FishEye can be started and will use Oracle.

## 3

### Further Resources

[Troubleshooting Databases](#)

### Migrating to PostgreSQL

To switch to a PostgreSQL database, install PostgreSQL and follow the steps below. Please note that during the migration of database servers, the FishEye instance will not be available to users or to external API clients.

- [Install and Create a PostgreSQL Database](#)
- [Configure FishEye to use PostgreSQL, and Migrate Data](#)

- [From FishEye's Administration](#)
- [From the command line](#)
- [Further Resources](#)

# 1

## Install and Create a PostgreSQL Database

1. The JDBC drivers for PostgreSQL are bundled with FishEye. Skip to step 2 if this meets your needs. If you want to install a specific, different version of the bundled JDBC driver, download the PostgreSQL JDBC driver .jar file from the [PostgreSQL website](#) and copy the .jar file to your FISHEYE\_INST/lib directory (create the lib/ directory if it doesn't already exist). Move the existing JDBC .jar file to another location (and back it up). Restart FishEye or Crucible to have it pick up the new driver.
2. Create a new database user (replacing 'username' and 'password' with the appropriate values):

```
$ psql
> create user username password 'password';
```

3. Create a UTF-8 database and make the newly created user the owner:

```
> create database crucible ENCODING 'UTF-8' OWNER username;
```

4. Make sure the user has full access to the database:

```
> grant all on database crucible to username;
```

# 2

## Configure FishEye to use PostgreSQL, and Migrate Data

In order to migrate to a different database backend, you must create a backup of sql data, configure the database and finally import the data via a backup restoration process. This can be done from either the FishEye administration console, which streamlines the process, or via the command line tool which FishEye provides.

### From FishEye's Administration

1. Navigate to the **Database** page in FishEye's Administration console
2. Then click **'Test Connection'** to verify that Crucible or FishEye can log in to the database:
3. Select **PostgreSQL** from the database type
4. Fill in the appropriate fields, replacing the host, port, database name, username and password as required
5. Click on **Test Connection** to validate the values

*Screenshot: Testing the Connection*

### Database Configuration

To switch to a different database, specify the database's configuration settings in the form below and use the Test Connection button to verify that the database can be used. We are currently connected to the PostgreSQL database at jdbc:postgresql://localhost:5432/crucible.

Changes to connection pool sizes require a full restart before the new settings will take effect.

Type: Built-In PostgreSQL Oracle MySQL

Driver Location: jdbc:postgresql://localhost:5432/crucible

URL: jdbc:postgresql://localhost:5432/crucible

User Name: crucible

Password: \*\*\*\*\*

Minimum Pool Connections: 5

Maximum Pool Connections: 20

Parameters: useUnicode=true  
characterEncoding=UTF8

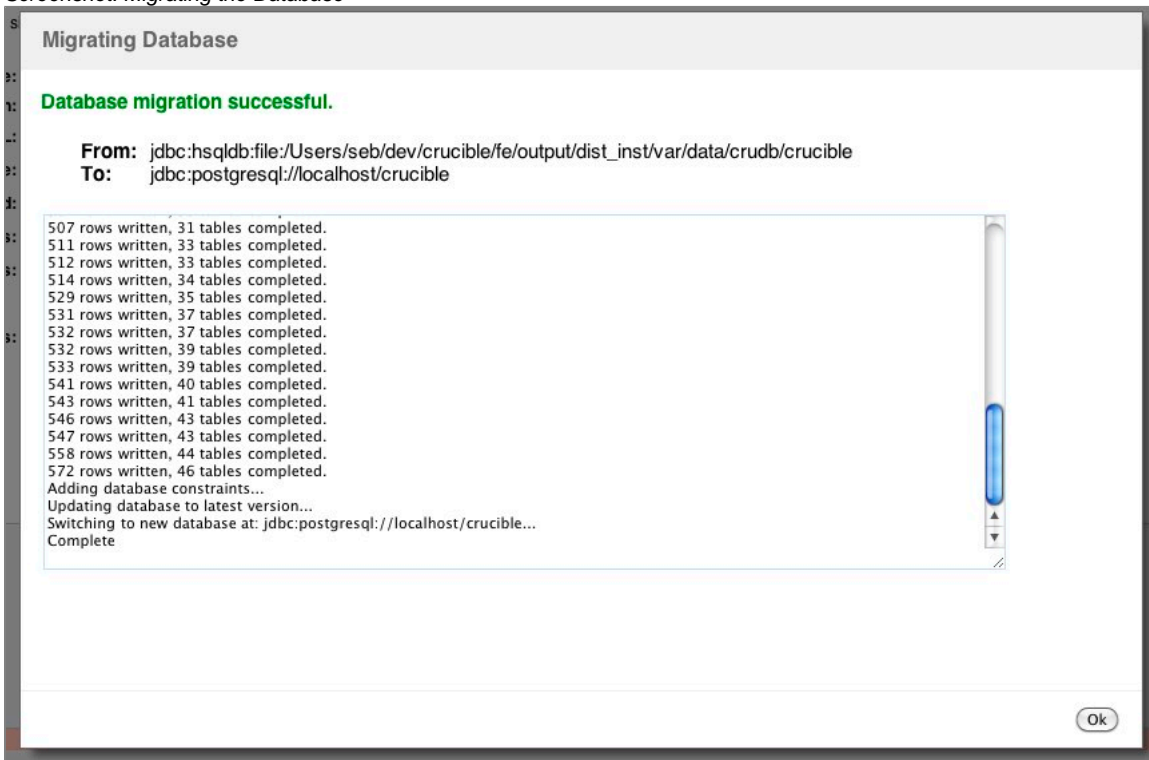
Cancel Save & Migrate Test Connection Save

If this fails, verify that you have the PostgreSQL JDBC driver .jar file in the classpath (by placing the .jar file in FISHEYE\_INST/lib). Also, ensure that the database user can log in to the database from the machine that Crucible or FishEye is running on and that all the required privileges are present.

- Click 'Save & Migrate Data' to start the migration process.

During the migration process (which will take several minutes, depending on the size of your database and network throughput), the product will be inaccessible to users and external API clients. Users will see a maintenance screen that informs them of the process. Should the migration fail for any reason, FishEye will not switch to the new database and report on the encountered problems. Because the destination database may now contain some, but not yet all data, drop all tables, indexes and constraints before attempting a new migration.

*Screenshot: Migrating the Database*



#### From the command line

- Create a backup of the sql data from the FishEye instance. Information on how to create a backup can be found at [Backing Up and Restoring FishEye Data](#)
- Run the following command from the bin directory in FISHEYE\_INST

```
$ ./fisheyectl.sh restore --sql \
    --file /path/to/backup.zip \
    --dbtype postgresql \
    --jdbcurl jdbc:postgresql://hostname/dbname \
    --username crucible \
    --password password
```

- When the import is complete, FishEye can be started and will use PostgreSQL

## 3

### Further Resources

[Troubleshooting Databases](#)

## Software Update Notifications


FishEye (and Crucible) can detect and notify you of new versions of the program. In the Admin screen, you can set a background thread to poll Atlassian's servers and report when a new version of FishEye or Crucible has been released.

To use the Update Notification,

- From the **'Admin Menu'**, click **'Server Settings'** from the left navigation bar.
- The **'Software Status'** line displays either 'Up to Date', 'New Version Available' or 'Unknown'.
- The **'Last Checked'** line displays the date when the feature last checked for a new version.
- Clicking the **'Check Now'** link will immediately check for a new version.
- Clicking the **'Enable'** link allows you to switch on regular polling of the Atlassian servers, which will do periodic checking for the release of new versions. The default interval between checks is one day.
- Once enabled, click **'Edit config'** to adjust the settings. You can set an interval of your choosing. The minimum interval allowed is one minute.

 A status of **'Unknown'** is displayed when the feature has not yet been activated.

*Screenshot: Settings for Update Notification*

**Update Notifications** 

**Software Status:** Unknown

**Last Checked:** Never - you may want to click "Check now" below


**Poll interval:** 1 day

[Disable](#) | [Edit config](#) | [Check now](#)

*Screenshot: Changing the Update Notification Interval*

**Edit Software Update Notifications**

**Check every:**





## Running Scheduled Events



This page is deprecated. Please see [Backing Up and Restoring FishEye Data](#).

## JIRA Integration in FishEye

Atlassian's [JIRA](#) is an issue tracking application, which can be used to manage projects and associated work. JIRA integration with FishEye can be set up by using the bundled Unified Application Links plugin.

On this page:

- [Before You Begin](#)
- [Integrating your JIRA Server with your FishEye Server](#)
- [Known Issues](#)
  - [Related Topics](#)

### Before You Begin

Ensure that you configure your JIRA instance to [enable sub-tasks](#) and [allow Remote API access](#). We also recommend that you [enable unassigned issues](#).

### Integrating your JIRA Server with your FishEye Server

To integrate your JIRA server with your FishEye server, you will need to do the following:

- Note, the links in the instructions below point to the [Application Links](#) documentation.*
1. Create an application link between JIRA and FishEye. See [Adding an Application Link](#).
  2. Configure authentication for the new application link. See [Configuring Authentication for an Application Link](#).
  3. Create entity links for the mappings between your FishEye repositories and JIRA projects, as desired. See [Adding an Entity Link](#).
    - If you want to show issues in your FishEye activity streams, navigate to your application links and click '**JIRA settings**' next to your application link to the JIRA server. Tick the 'Include in '**Activity Streams**' checkbox and click '**Save**'.



The [Application Links Quick Start Guide](#) provides an example of setting up an application link.

### Known Issues

If you elect to use Trusted Applications for authentication with your JIRA server, activity streams will be generated using the currently logged in user. However JIRA project mapping and issue key linking (including the associated "hovering" content) will be retrieved using the user specified on the JIRA Server configuration page in the FishEye administration section.

We are working towards supporting Trusted Applications for issue key linking and project mapping. If this issue is important to you, please vote for [CRUC-1910](#).

### Related Topics

- The JIRA documentation on [Integrating JIRA with FishEye](#), which enables you to view FishEye data from within JIRA.
- The Crucible documentation on [JIRA Integration in Crucible](#), which enables you to view JIRA data from within Crucible.

## Customising Email Notifications

Email notifications in FishEye can be customised to change their formatting, by editing template files. This page contains instructions for this process.

### Editing FishEye Email Templates

Template files for FishEye are stored in the `FISHEYE_HOME/templates/` folder.

They templates are only for changing the appearance and order of certain content inside the messages.



If you edit the templates of an operational FishEye instance, you may disrupt notifications that are being sent at that time. To avoid this, shut FishEye down during template editing.

### Editing the Subject Line

1. Open the '**fisheye-mail-subject.ftl**' template file from `FISHEYE_HOME/templates/` in a text editor.
2. Type in your new text for the email subject, ensuring that all of the content is contained within line 1 of the template. '**fisheye-mail-subject.ftl**' is used as the subject template for all FishEye email notifications.
3. Save and close the file.
4. Restarting FishEye will activate the new templates.

### Editing the Header

Header information will be included at the beginning of the email body text.

1. Open the '**fisheye-mail-header.ftl**' template file from `FISHEYE_HOME/templates/` in a text editor.
2. Add your new header content. '**fisheye-mail-header.ftl**' is used as the header template for all FishEye email notifications.
3. Save and close the file.
4. Restarting FishEye will activate the new templates.

### Editing the Footer

Footer information will be included at the end of the email body text.

1. Open the '**fisheye-mail-footer.ftl**' template file from `FISHEYE_HOME/templates/` in a text editor. '**fisheye-mail-footer.ftl**' is used as the footer template for all FishEye email notifications.
2. Add your new footer content.
3. Save and close the file.
4. Restarting FishEye will activate the new templates.

After an edit, the change to the email template will take place immediately. No restart is required.



Try and avoid editing the live template file, as FishEye may try to use it while you are editing. This could have unpredictable results. Instead, back up the template file (it's wise to keep original versions of all these files), edit a copy you have made, then overwrite the 'live' template once you have finished.

## Advanced Editing of FishEye Email Templates

The email notification templates use the [Freemarker](#) format. Freemarker is a general templating engine enabling automated content.

If you are familiar with Freemarker, more advanced customisations can be made to the email notification templates. However, you make such adjustments at your own risk.

### FishEye Email Template File List

The following template files for FishEye notifications are stored in the `FISHEYE_HOME/templates/` folder.

Template filename	Purpose
<b>fisheye-mail-subject.ftl</b>	Subject template
<b>fisheye-mail-header.ftl</b>	Header template
<b>fisheye-mail-footer.ftl</b>	Footer template
<b>changeset-mail-html.ftl</b>	HTML email template
<b>changeset-mail-plain.ftl</b>	Plain text email template

See also [Customising Crucible Email Notifications](#).

## Freemarker Data Model for Email Templates

### Customising FishEye email templates with Freemarker

This page lists the Freemarker data-model for FishEye email templates. See the [Freemarker documentation](#) for instructions on Freemarker syntax. Use the templates that ship with FishEye as a guide to the properties available on each object.

These templates are used to send both batch (e.g. daily) and immediate emails. The template has access to the **changesets** variable which contains the list of changesets to send.

The default FishEye email templates make use of various data model objects, listed below.

Here is a simple example that prints out each revision in each changeset.

```
[#list changesets as cs]
${cs.id}
Author: ${cs.author}
Comment: ${cs.comment}
Files:
[#list cs.revisionInfos as rev]
  ${rev.path} ${rev.revision}
[/#list]
[/#list]
```

### Primary Data Model Objects

Object name	Function	Notes
<b>repname</b>	The name of the repository	
<b>siteurl</b>	Base URL of the FishEye instance	
<b>timezone</b>	The time zone as configured in admin	
<b>watchpath</b>	The path for this watch	
<b>changesets</b>	A list of changesets	

The syntax to use the data model object '**repname**' as an example, is as follows:

```
${repname}
```

### Changeset objects

The **changesets** list will contain multiple changesets for batch (e.g. daily) notifications and one element for immediate notifications.

These changeset objects have the following properties:

Object name	Function	Notes
<b>comment</b>	The commit comment	Belongs to a <i>changeset</i>
<b>author</b>	Author of the commit	Belongs to a <i>changeset</i>
<b>dateValue</b>	the date of the commit	Belongs to a <i>changeset</i>
<b>revisionInfos</b>	A list of revisions for the changeset	Belongs to a <i>changeset</i>

For example, to iterate through all the changesets notifications, you would use the following:

```
[#list changesets as cs]
  ${cs.id} ${cs.author}
[/#list]
```

### Revision objects

Object name	Function	Notes
<b>path</b>	The path of the file	Belongs to a <i>revisionInfo</i> , under a <i>changeset</i>

<b>revision</b>	The revision number	Belongs to a <i>revisionInfo</i> , under a <i>changeset</i>
<b>binary</b>	Boolean indicating whether file is binary	Belongs to a <i>revisionInfo</i> , under a <i>changeset</i>
<b>dead</b>	Boolean indicating whether file is deleted	Belongs to a <i>revisionInfo</i> , under a <i>changeset</i>
<b>move</b>	Boolean indicating whether file is moved	Belongs to a <i>revisionInfo</i> , under a <i>changeset</i>
<b>copy</b>	Boolean indicating whether file is copied	Belongs to a <i>revisionInfo</i> , under a <i>changeset</i>
<b>added</b>	Boolean indicating whether file is added	Belongs to a <i>revisionInfo</i> , under a <i>changeset</i>
<b>linesAdded</b>	Number of lines added	Belongs to a <i>revisionInfo</i> , under a <i>changeset</i>
<b>linesRemoved</b>	Number of lines removed	Belongs to a <i>revisionInfo</i> , under a <i>changeset</i>

## Setting up your Users and Security

You can implement access control using a set of 'built-in' users stored in the FishEye database, or you can have FishEye look in an [external authentication source](#) for users, passwords and permissions.

Anonymous access to FishEye is allowed by default. You can disable [anonymous access](#) at a global level and per repository.

For an overview of FishEye security, please see [Understanding security](#).

To configure your authentication settings, click '**Users/Security**' on the '**Admin Menu**'.

Select one of the options below for specific information on settings:

- [Adding a User to a Group](#)
- [Associating a Group with a Repository](#)
- [Brute Force Login Protection](#)
- [Configuring Anonymous Access](#)
- [Configuring Avatar Settings](#)
- [Configuring CAPTCHA](#)
- [Configuring External Authentication Sources](#)
- [Configuring Public Signup](#)
- [Creating a Group](#)
- [Creating a User](#)
- [Deleting or deactivating a User](#)
- [Editing a User's Details](#)
- [Granting Administrator Privileges](#)
- [Load all users from Active Directory, LDAP or Atlassian Crowd](#)
- [Understanding security](#)



FishEye provides a pluggable architecture to allow arbitrary forms of authorisation and authentication.

[Screenshot: Authentication Settings](#)

**Admin Menu**

- Repository Settings**
  - Repository List (new...)
  - Repository Defaults
  - Review Coverage
- Project Settings**
  - Project List (new...)
- Global Settings**
  - Server Settings
  - Security**
  - Users
  - User Mapping
  - Avatar Settings
  - Groups
  - Administrators
  - ViewCVS URL Mappings
  - Change Admin Password
  - Customize Crucible Defect Classifications
  - Permission Schemes
  - Trusted Applications
  - JIRA Servers
  - Customize Front Page
- System**
  - Database Configuration
  - Sys-Info/Support
  - Content
  - Backup
  - Plugins
  - Shutdown

**Authentication Settings**

**Permissions Summary**

	Allow anon	Groups	Action
<b>Global:</b>	NO (Turn On)		
<b>Crucible:</b>	NO (Turn On)		
<b>Repository Default:</b>	NO	none set	<a href="#">Edit</a>
<b>Per-repository:</b>			
<b>AGMP:</b>	NO (default)	default	<a href="#">Edit</a>
<b>applinks:</b>	NO (default)	default	<a href="#">Edit</a>
<b>atlassian:</b>	NO (default)	default	<a href="#">Edit</a>
<b>BM:</b>	NO (default)	default	<a href="#">Edit</a>
<b>CLOV:</b>	NO	atlassian-dev atlassian-staff KLDevToolsSupport	<a href="#">Edit</a>
<b>contrib:</b>	NO (default)	default	<a href="#">Edit</a>
<b>Critter:</b>	NO (default)	default	<a href="#">Edit</a>
<b>FE:</b>	NO	atlassian-dev atlassian-staff crucible-users-non-crowd KLDevToolsSupport	<a href="#">Edit</a>

**Built-in**

**Public Signup** : OFF (Turn On)
 **Use CAPTCHA** : ON (Turn Off)
 **User managed mappings** : ON (Turn Off)

**Username Option**

**Force Lowercase Username** : OFF (Turn On)

**Email Visibility**

**User email visibility:**
☒ Public
 ☐ Hidden
 ☐ Visible to logged in users only

Note: emails which are visible are obfuscated and will not be harvested by web spiders.

**Crowd Authentication**

**Application Name:** cenqua-dogfood-fisheye  
**Crowd URL:** http://extranet-crowd.private:8080/crowd/services/  
**Auto-add users into FishEye:** true  
**Single sign on (SSO) enabled:** false  
**Synchronise Period:** false

[Re-Sync](#) | [Edit](#) | [Remove](#)

## Other Related Security Resources

Page: [Security Advisories](#)

Page: [How to Report a Security Issue](#)

Page: [Security Advisory Publishing Policy](#)

Page: [Security Patch Policy](#)


Page: [Setting up your Users and Security](#)

Page: [Severity Levels for Security Issues](#)


## Adding a User to a Group

There are two types of FishEye user groups:

- 'Built-in' groups — these are stored in the FishEye database.
- 'External' groups — these are stored in an external directory (e.g. Crowd), if any are configured. See [Configuring External Authentication Sources](#).

 Note that for external directories and external groups, users can only be added to external groups from within the directory, so the method described below will not apply. However if you want to add external users to internal (built in) groups, then you can using the below.

To add a user to a 'built-in' group,

1. Click **'Users'** on the **'Admin Menu'**.
2. The **'User Browser'** screen will be displayed (see screenshot below), showing a list of users.
3. Locate the user and click the corresponding **'Edit'** link.
  -  If the user doesn't initially appear on the screen, type part of their email address and/or select a group to which they belong, and click the **'Filter'** button.
4. The **'Edit User'** screen will be displayed (for more information please see [Editing a User's Details](#)). Click the **'Edit Groups'** link.
5. The **'Edit User Groups'** screen will be displayed as shown in the screenshot below.
  - To add the user to a group, select the group in the **'Available Groups'** column at left and click the **'Join'** button.
  - To remove the user from a group, select the group in the **'Groups'** column at right and click the **'Leave'** button.
6. Click the **'Back to user'** button.


*Screenshot: Edit User Groups*



## Associating a Group with a Repository

Associating a group with a repository means that only members of that group will be able to access the repository. For more information, please see [Understanding security](#).

To associate a group with a repository,

1. Click **'Security'** on the **'Admin Menu'**.
2. The **'Authentication Settings'** screen will be displayed (see screenshot below), showing a list of existing groups.
3. In the **'Permissions Summary'** section, under **'Per-repository'**, click the **'Edit'** link corresponding to the repository with which you wish to associate a group.
  -  Or, to associate a group with *all* repositories by default, click the **'Edit'** link in the **'Repository Default'** row.
4. The **'Edit Security'** screen will be displayed. Select the relevant group and click the **'Join'** button.
5. Click the **'Update'** button to return to the **'Authentication Settings'** screen.
6. Your new group will now appear in the **'Groups'** column for your chosen repository.

*Screenshot: Authentication Settings*

**Admin Menu**

- Repository Settings**
  - Repository List (new...)
  - Repository Defaults
  - Review Coverage
- Project Settings**
  - Project List (new...)
- Global Settings**
  - Server Settings
  - Security**
  - Users
  - User Mapping
  - Avatar Settings
  - Groups
  - Administrators
  - ViewCVS URL Mappings
  - Change Admin Password
  - Customize Crucible Defect Classifications
  - Permission Schemes
  - Trusted Applications
  - JIRA Servers
  - Customize Front Page
- System**
  - Database Configuration
  - Sys-Info/Support
  - Content
  - Backup
  - Plugins
  - Shutdown

**Authentication Settings**

**Permissions Summary**

	Allow anon	Groups	Action
<b>Global:</b>	NO (Turn On)		
<b>Crucible:</b>	NO (Turn On)		
<b>Repository Default:</b>	NO	none set	<a href="#">Edit</a>
<b>Per-repository:</b>			
<b>AGMP:</b>	NO (default)	default	<a href="#">Edit</a>
<b>applinks:</b>	NO (default)	default	<a href="#">Edit</a>
<b>atlassian:</b>	NO (default)	default	<a href="#">Edit</a>
<b>BM:</b>	NO (default)	default	<a href="#">Edit</a>
<b>CLOV:</b>	NO	atlassian-dev atlassian-staff KLDevToolsSupport	<a href="#">Edit</a>
<b>contrib:</b>	NO (default)	default	<a href="#">Edit</a>
<b>Critter:</b>	NO (default)	default	<a href="#">Edit</a>
<b>FE:</b>	NO	atlassian-dev atlassian-staff crucible-users-non-crowd KLDevToolsSupport	<a href="#">Edit</a>

**Built-in**

**Public Signup** : OFF (Turn On)
 **Use CAPTCHA** : ON (Turn Off)
 **User managed mappings** : ON (Turn Off)

**Username Option**

**Force Lowercase Username** : OFF (Turn On)

**Email Visibility**

**User email visibility:**
☒ Public
 ☐ Hidden
 ☐ Visible to logged in users only
 

Note: emails which are visible are obfuscated and will not be harvested by web spiders.

**Crowd Authentication**

**Application Name:** cenqua-dogfood-fisheye  
**Crowd URL:** http://extranet-crowd.private:8080/crowd/services/  
**Auto-add users into FishEye:** true  
**Single sign on (SSO) enabled:** false  
**Synchronise Period:** false
 

[Re-Sync](#) | [Edit](#) | [Remove](#)

## Brute Force Login Protection

This page explains how to configure or disable FishEye's brute force login protection.

FishEye will protect against brute force login attacks by forcing users to solve a CAPTCHA form after a configurable number of consecutive invalid login attempts. By default, this functionality is enabled, and the number of invalid attempts is set to three.

Once a user logs in successfully, they will no longer be required to solve the CAPTCHA form.

### Configuring brute force login protection

To configure brute force login protection:

1. Open the FishEye Admin screen click Security on the left-hand navigation bar. The 'Authentication Settings' screen opens.
2. Scroll down to the 'Security Settings' section at the bottom of the screen.
3. The option 'Use CAPTCHA' is displayed. You can select the following options:
  - Never.

- After N login attempts (the default number of allowed attempts is three). Select the desired option (where 'N' is the number of attempts), and click 'Apply'. The changes will be made immediately.

Screenshot: Brute Force Login Protection Settings

The screenshot shows a 'Security settings' section. Under the heading 'Use CAPTCHA', there are two radio buttons: 'Never' and 'After'. The 'After' option is selected, followed by a text input field containing the number '3'. To the right of the input field is the text 'failed login attempts', and further right is an 'apply' button.

## Brute force protection against remote API calls

Login requests by the FishEye remote API libraries are also covered by the brute force protections. After the number of invalid attempts is exceeded (the default is three), then the remote API for that user will be prevented from making further login attempts (as that user will now be required to solve a CAPTCHA form through the web interface in order to log in).

## Configuring Anonymous Access

Anonymous access to FishEye is allowed by default. You can disable anonymous access at the following levels:

- Global.
- Repository default.
- Per repository.

Note: in Crucible, anonymous access is also subject to individual project permissions (see [Creating a Permission Scheme](#)).

To configure anonymous access,

From the '**Admin Menu**', choose one of the following options:

- '**Security**' - Allows you to change anonymous access at all levels.
- '**Repository Defaults**' - Allows you to change the default setting for repositories.
- A repository name - Allows you to change the setting for the specific repository.

## Configuring Avatar Settings

Every user with a FishEye/Crucible account will have an avatar image displayed next to their name throughout the application. By default, each user will have a plain grey avatar image. Note, you cannot disable avatars.

You can configure whether to use FishEye/Crucible's own avatars or avatars from an external server (e.g. <http://www.gravatar.com/>). In both cases, users can manually upload their own images to use as avatars.


To configure avatar settings,


1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click '**Avatars**' under the '**User Settings**' section in the left menu. The 'Avatars' page will be displayed (see screenshot).
3. Choose the desired avatar configuration for your FishEye/Crucible instance:
  - '**Internal**' — Choose this option if you want to use FishEye/Crucible's default avatars, "Charlitors" (Semi-unique avatars resembling charlie) or Joe Doe. We recommend this option if you are running FishEye/Crucible behind a firewall. Users will also be able to upload their own images to use as avatars via their user profile, (see [Changing your User Profile](#)). User-defined avatars will override default avatars.
  - '**External**' — Choose this option if you want to use avatars hosted by an external server, (e.g. <http://www.gravatar.com/>). Users will also be able to upload their own images to use as avatars via their user profile, (see [Changing your User Profile](#)). User-defined avatars will override avatars from an external server. Specify your avatar server, as follows:
    - '**Url**' — Type the address of the external server, e.g. <http://gravavatar.com/avatar/>. Use the same protocol that is used to access FishEye, e.g. if FishEye uses the [secure HTTP](#) protocol then you need to use 'https' when specifying your external server.
      - ✓ If you are using the [Gravatar](#) service, we recommend that you use the following URL:  
<https://secure.gravatar.com/avatar/>
    - '**Suffix**' — (optional) Specify any parameters supported by the external server. For example, if you wish to control the type of images to be displayed, Gravatar accepts "r=g" ("rating=general"). The suffix must be in the form of a URL query string, starting with an ampersand, e.g. "&r=g"
4. Click '**Save changes**' to save the avatar configuration.

Screenshot: 'Configure Avatar Settings'



## Avatars

 ☐ Internal  
Use FishEye and Crucible's internal avatar server.

 ☒ External  
Choose an avatar server that FishEye and Crucible can use to get custom user avatars.

Url:   
Enter the URL of the external avatar server that uses the Gravatar URL format. E.g. http://gravatar.com/avatar/

Suffix:   
Enter any query string suffix supported by the external server. E.g. Gravatar accepts "r=g" ("rating=general").

or [revert](#)

### Notes

- If you want to use an external avatar server and are using a web server in front of FishEye, you will need to set your [site URL](#) and [proxy host settings](#).

## Configuring CAPTCHA

This page contains instructions on enabling and disabling [CAPTCHA](#) testing on the following login-screen features of FishEye and Crucible:

- Public signup.
- Password retrieval.

Administrators can enable or disable CAPTCHA testing on the [public signup](#) and [password retrieval](#) screens. CAPTCHA testing is enabled by default.

You may want to turn CAPTCHA off if you are serving FishEye or Crucible behind a firewall.


To do this:


- Open the FishEye **Admin screen**, then choose '**Security**' from the left navigation bar.
- The FishEye Security Settings screen opens.
- Just below '**Public Signup**', the '**Use CAPTCHA**' option can be set to OFF or ON.
- Select the desired setting by clicking '**Turn (OFF or ON)**'.
- The setting is immediately changed.

*Screenshot: The FishEye Security Settings screen*

**Built-in**

**Public Signup**  : OFF (Turn On)

**Use CAPTCHA**  : OFF (Turn On)

 To see instructions on configuring CAPTCHA for brute force login protection, see the page on [Brute Force Login Protection](#).

## Configuring External Authentication Sources

Although FishEye always maintains a list of users internally, you can have FishEye authenticate and authorise users against one or more external authentication sources.

 Be aware that you can [force usernames to become lowercase](#) on import.

### Single External Authentication Source

To set an external authentication source, click '**Security**' on the '**Admin Menu**'. Only one external authentication source can be setup and each repository has the choice of authenticating against that or the internal login. To change authentication sources, you will need to remove the settings that are already configured, by clicking the '**Remove**' link. You will then be presented with the option to add a different authentication. FishEye currently supports:

- [LDAP Authentication](#)
- [Host-Based Authentication](#) - Implemented using PAM on Linux/Solaris/OS-X and Local/Domain Accounts on Windows
- [AJPv13 Authentication](#)
- [Custom Authentication](#)

### Multiple External Authentication Sources

The recommended approach to authenticating against more than one authentication source is to implement single signon (SSO). You can integrate FishEye with an existing SSO solution, or add [Atlassian Crowd](#) integration to combine users and authentication from multiple external user repositories. Crowd connectors are already available for all Atlassian products, LDAP, Active Directory and Subversion:

- [Crowd Authentication](#)
- [Custom Authentication](#)

## AJPv13 Authentication

AJP authentication expects requests to be pre-authenticated via an external server before arriving at FishEye.

Typically, this would be a web server (e.g. Apache) configured to perform password and role checking for a given URL. If successful, the server forwards the request to the FishEye server via the AJPv13 protocol.

### FishEye Configuration

For FishEye to use AJP authentication, the following two values must be configured:

- The AJP Bind Address must be set per FishEye instance. See also [Server Settings](#).
- The user's Auth Type must be set to 'ajp'.

### Apache Configuration

Here is one example of how to configure Apache Httpd so that all requests to Apache Httpd for the path `/fisheye` are forwarded to a FishEye instance on the same machine with an AJP Bind Address of `localhost:8009`.

Add these lines to your apache configuration:

```
LoadModule jk_module modules/mod_jk.so

JkWorkersFile /path/to/workers.properties
JkLogFile /var/log/mod_jk.log
JkLogLevel debug
JkLogStampFormat "[%a %b %d %H:%M:%S %Y] "
JkMount /fisheye/* worker1
```

Then create a file under `/path/to/workers.properties` and add:

```
worker.list=worker1
worker.worker1.type=ajp13
worker.worker1.host=localhost
worker.worker1.port=8009
```

## Crowd Authentication

Atlassian's [Crowd identity management system](#) can be integrated with FishEye. Please see the document [Integrating Crowd with FishEye](#) in the *Crowd Administrator's Guide*.

Note:

- In FishEye versions 1.4 and later, support for Crowd is built in and configuration is greatly simplified.
- In FishEye versions 1.3.x and earlier, using Crowd required installing a custom authentication plugin on your FishEye server. In version 1.4, the custom authentication plugin is no longer required or supported.



FishEye is bundled with the Crowd 1.3 client library, and therefore is intended to operate with Crowd 1.3 or later.

## Custom Authentication

To implement an arbitrary form of authentication and authorisation for FishEye you need to provide a class which extends `com.cenqua.fisheye.user.plugin.AbstractFishEyeAuthenticator`. You can find more information about custom FishEye authorisation in the [online javadocs](#) and the [library jar](#).

For FishEye to use the authenticator, it must be compiled, placed in a jar archive and then put in the `$FISHEYE_INST/lib` directory. If other third-party libraries are required by your authenticator, they must also be in the `$FISHEYE_INST/lib` directory.

### Global Configuration

After implementing a custom authenticator, the next step is to configure FishEye to use it.

Click the '**Setup Custom authentication**' link on the FishEye '**Admin**' -> '**Security**' page.

You will be presented with a form containing the following fields to be set:

Classname	The fully qualified class name of your <code>AbstractFishEyeAuthenticator</code> , e.g. <code>com.cenqua.fisheye.user.plugin.ExampleFishEyeAuthenticator</code> .
Cache TTL (positive)	How long FishEye should cache permission checks. Example values are: 0 secs, 5 mins.
Auto-add	FishEye can automatically create a user it has not previously encountered if the user can successfully authenticate against your authenticator.
Properties	Any properties your authenticator requires. These will be passed to its <code>init()</code> method. This field should comply with the <code>java.util.Properties</code> format. Example: <div style="border: 1px dashed blue; padding: 10px; margin: 10px 0;"> <pre># comments name1=value1 name2=value2</pre> </div>

### Per-Repository Constraint Configuration

You may also require a per-repository constraint to restrict access to specific repositories using your custom authenticator. If a custom authenticator is set, then the [Permissions Summary](#) table will display the constraint per repository and a link to enable you to edit it.



The '**Authentication Test**' page allows you to enter a user's credentials and to test the user's authentication. It will also test which repositories the user is authorised to access.

## Forcing Imported Usernames to be Lowercase

When importing users from external authentication sources, you can set FishEye to force the usernames to become lowercase. This solves an issue with some sources adding duplicate users to the FishEye database.

To force lowercase usernames, carry out the following steps:

1. Log into FishEye's Admin Interface.
2. Under **Authentication settings**, the option **Force Lowercase Username** can be toggled on and off.
3. With this setting switched **On**, when new users are added to FishEye from an external authentication source, all usernames will be converted to lowercase.

Screenshot: *Forcing Lowercase Usernames*

**Username Option**

**Force Lowercase Username:** OFF (On) 

## Host-Based Authentication

Host-based authentication uses the user account mechanism of the underlying operating system on which FishEye is running.



FishEye currently supports PAM-based authentication on **32-bit** Linux/Solaris/OS-X, and NT-based authentication on Windows. An outstanding feature request for 64-bit support is located at [FE-683](#)

### Group Restrictions

FishEye can be configured to check if a user belongs to a group (or groups) before allowing access.

You can list one group name, or join several group names into a boolean expression like `group1 & (group2 | group3)`.

If your group name contains spaces or non-ASCII characters, then you need to use quotes. For example: `"Power Users" | Administrators`.

### Windows



If you are using Active Directory, you can configure FishEye to [use LDAP](#) as an alternative to host-based authentication.

If the computer FishEye is running on is **not** a member of a domain, then the Domain attribute is ignored.

When the computer is a member of a domain, you need to enter the full DNS name of the domain (e.g. `corp.example.com`). If you enter the short version of the domain (e.g. `corp`), then group-based restrictions may fail.

Once you have configured your settings, we recommend you use the **'Test'** function to ensure your access control behaves correctly.

### PAM

On Linux, Solaris and OS-X, host-based authentication uses PAM (Pluggable Authentication Modules) to check users' passwords.

FishEye needs to be configured with the *service name* to use when conversing with PAM. You can create a new service name in the PAM configuration (typically `/etc/pam.conf` or `/etc/pam.d/`), or configure FishEye to use an existing service name (such as `other`, `login` or `xscreensaver`).

Some general operating-system specific tips are given below, but you should consult the PAM documentation for your operating system.

Once you have configured your settings, we recommend you use the **'Test'** function to ensure your access control behaves correctly.

#### Linux

On many Linux distributions, you may need to create a `/etc/pam.d/fisheye` file containing:

```
auth        required    pam_stack.so service=system-auth
```

#### Mac OS-X

On a default OS-X installation, you may need to create a `/etc/pam.d/fisheye` file containing:

```
auth        sufficient   pam_securityserver.so
auth        required     pam_deny.so
```

#### Solaris

If you are using the default `pam_unix_auth` PAM configuration on Solaris, then you may need to add a line like this to your `/etc/pam.conf` file:

```
fisheye auth requisite    pam_authtok_get.so.1
fisheye auth required     pam_unix_auth.so.1
```

If you test this and it does not work, it is probably because when using `pam_unix_auth` on Solaris, the process doing the password check needs read access to `/etc/shadow`.

Giving the FishEye process read access to this file may solve this problem, but using permissions other than `0400` for `/etc/shadow` is not recommended. You should discuss this with your system administrators first, and possibly change to a PAM module other than `pam_unix_auth`.

## Global Settings

Global settings are:

Domain/Service name	<b>Windows:</b> the name of the domain. Leave blank to use the local computer. <b>PAM:</b> The service name in your PAM configuration to use. If blank, <code>fisheye</code> is used.
Required group:	The group or groups a user must belong to in order for them to be able to log in.
Cache TTL (positive)	How long FishEye should cache permission checks. Example values are: 0 secs, 5 mins.
Auto-add	FishEye can automatically create a user it has not previously encountered if the user can successfully authenticate with the host.

## Per-Repository Settings

You can give FishEye a group restriction that will be used to check if a user has access to individual repositories. You can specify this per repository, or just specify it in the repository defaults:

Required Group	A group (or groups) used to check if a given user can access a given repository. For example: <code>cvssusers &amp; cvs\${REP}</code> The <code>\${REP}</code> variable is replaced with the name of the repository in question.
----------------	--

## LDAP Authentication

This page explains the settings for LDAP authentication and their parameters.

On this page:

- [Global Settings](#)
- [Per-Repository Settings](#)
- [Active Directory](#)

## Global Settings

Global LDAP settings are:

URL	The URL of the LDAP server, e.g. <code>ldap://localhost:389</code> .
Base DN	The base search space for users, e.g. <code>dc=example,dc=com</code>
User Filter	The LDAP search for locating users, e.g. <code>uid=\${USERNAME}</code> . The <code>\${USERNAME}</code> variable is expanded to the username of the individual being authenticated. You can use a more complicated LDAP filter to allow only a subset of users, such as: <code>(&amp;(uid=\${USERNAME})(group=fisheye))</code> .
UID Attribute	The name of the username attribute in objects matching the filter.
Email attribute	Optional. The name of an attribute giving the user's email address.
Cache TTL (positive)	How long FishEye should cache permission checks. Example values are: 0 secs, 5 mins.
Auto-add	FishEye can automatically create a user it has not previously encountered if the user can successfully authenticate against LDAP.
Initial bind DN and password	Optional. If your LDAP server does not allow anonymous bind, then you need to specify a user FishEye can use to do its initial bind.
Synchronise users with Crowd	Optional. Sets whether users will be loaded from an external directory.

## Per-Repository Settings

You can give FishEye an LDAP filter that will be used to check if a user has access to individual repositories. You can specify this per repository, or just specify it in the Repository Defaults to have it apply to all repositories where not specified for the individual repository:

LDAP restriction	An LDAP filter used to check if a given user can access a given repository, e.g. <code>(&amp;(uid=\${USERNAME})(group=\${REP}))</code> . The <code>\${REP}</code> variable is replaced with the name of the repository in question.
Match Type	One of 'user' (default) or 'any'. This setting modifies the meaning of LDAP restriction. If set to 'user', then FishEye expects the filter to match the exact DN of the current user. If it does match, then the user has access to the repository. Commonly, if your user object contains the list of groups the user has access to, then you would use a 'user' match. If set to 'any', then the filter just needs to match one result for the user to have access to the repository. Commonly, if your group object contains the list of UID members, then you would use an 'any' match. In such a case, your LDAP restriction filter may look like this: <code>(&amp;(uniquemember=\${USERNAME})(cn=\${REP},ou=groups,ou=com)(objectClass=groupofuniquenames))</code> . That is, return the group of which the current user is a member.

### Active Directory

To have FishEye connect to an Active Directory server, use settings such as the following:

URL	<code>ldap://HOSTNAME:389</code>
Base DN	<code>DC=corp,DC=example,DC=com</code>
User Filter	<code>(sAMAccountName=\${USERNAME})</code>
UID Attribute	<code>sAMAccountName</code>
Email attribute	<code>mail</code>
Initial bind DN	<code>corp.example.com/Users/SomeUser</code>

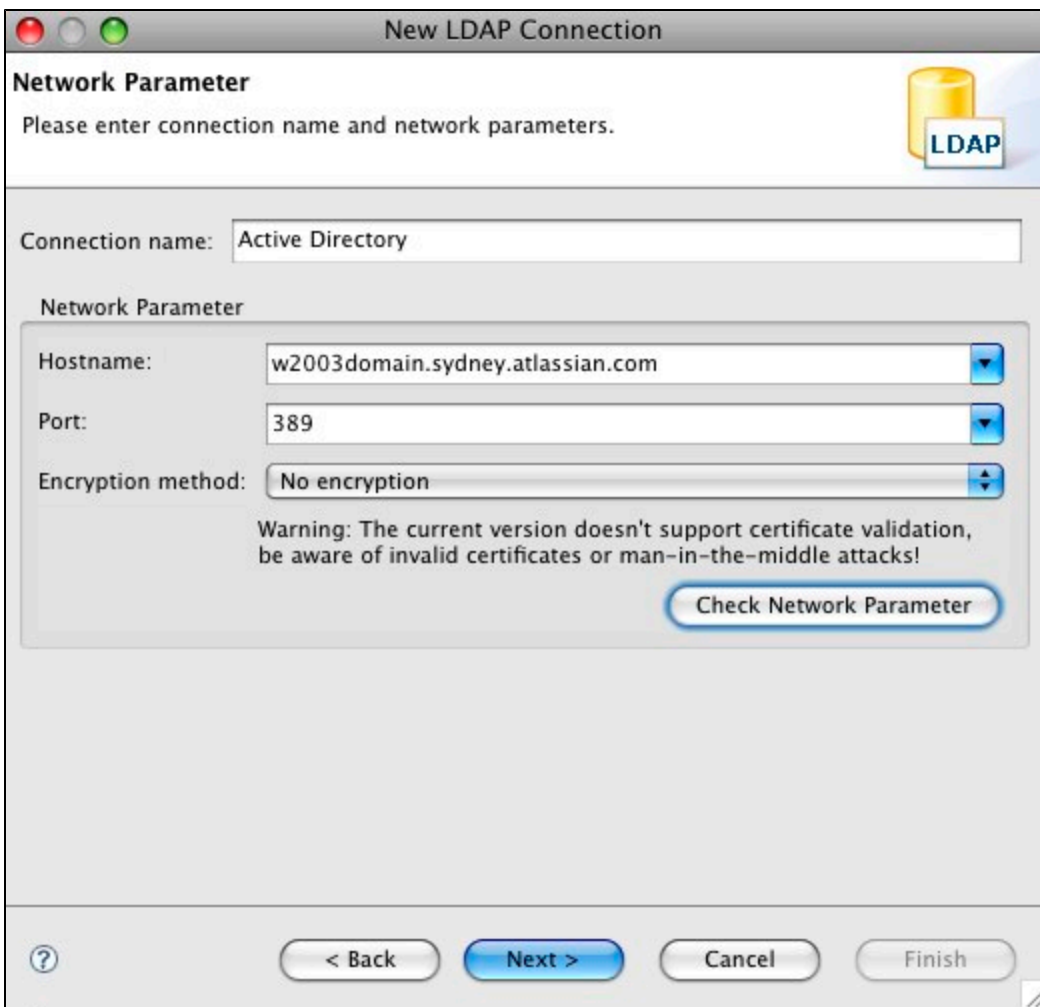
### How to connect FishEye to Active Directory or another LDAP server



These instructions target Active Directory, but you should be able to use the same process for other LDAP servers.

You use Active Directory (AD) for managing your users and you would like to connect FishEye to AD to authenticate users. For many administrators this can be confusing because AD tries to hide the complexities of LDAP from the user.

1. Download and install [Apache Directory Studio](#).
2. Once installed Apache Directory Studio go into File -> New -> LDAP Connection and follow the wizard. The details you enter in step 2 will be the initial bind user / password for FishEye.



The image shows a 'New LDAP Connection' dialog box with a title bar containing standard macOS window controls. The main area is titled 'Network Parameter' and includes an instruction to enter connection details. A yellow LDAP icon is in the top right. The 'Connection name' field is set to 'Active Directory'. Below, the 'Network Parameter' section contains fields for 'Hostname' (w2003domain.sydney.atlassian.com), 'Port' (389), and 'Encryption method' (No encryption). A warning message is displayed below these fields, and a 'Check Network Parameter' button is to the right. At the bottom, there are navigation buttons: a help icon, '< Back', 'Next >', 'Cancel', and 'Finish'.

### New LDAP Connection

**Network Parameter**

Please enter connection name and network parameters.

Connection name: Active Directory

**Network Parameter**

Hostname: w2003domain.sydney.atlassian.com

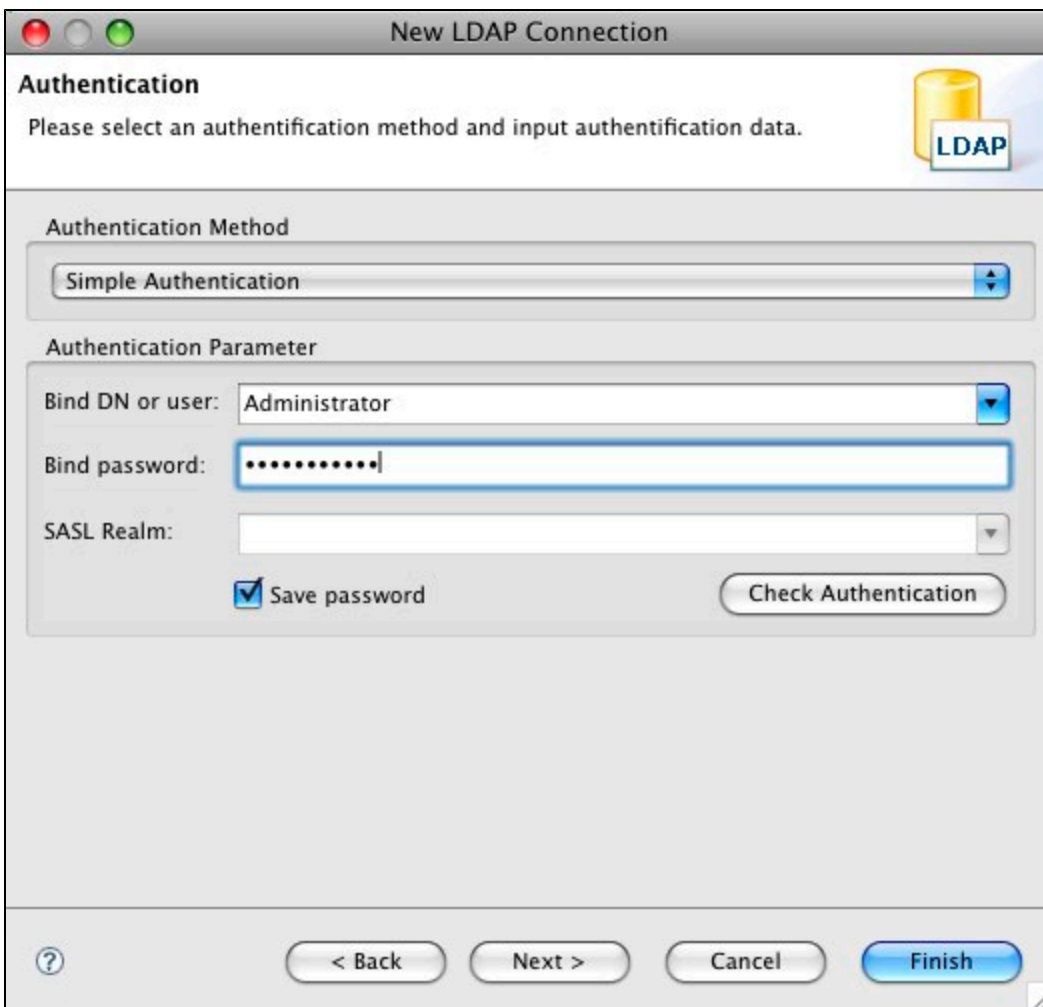
Port: 389

Encryption method: No encryption

Warning: The current version doesn't support certificate validation, be aware of invalid certificates or man-in-the-middle attacks!

Check Network Parameter

? < Back Next > Cancel Finish



The image shows a 'New LDAP Connection' dialog box with a title bar containing standard macOS window controls (red, yellow, green buttons). The main content area is titled 'Authentication' and includes a sub-header 'Please select an authentication method and input authentication data.' in the top right corner, accompanied by a yellow cylinder icon labeled 'LDAP'. Below this, the 'Authentication Method' is set to 'Simple Authentication' in a dropdown menu. The 'Authentication Parameter' section contains three input fields: 'Bind DN or user:' with the value 'Administrator', 'Bind password:' with masked characters '.....', and 'SASL Realm:' which is empty. A 'Save password' checkbox is checked, and a 'Check Authentication' button is located to the right. At the bottom of the dialog, there is a help icon (question mark) and four navigation buttons: '< Back', 'Next >', 'Cancel', and a highlighted 'Finish' button.

**New LDAP Connection**

**Authentication**  
Please select an authentication method and input authentication data.

**Authentication Method**  
Simple Authentication

**Authentication Parameter**

Bind DN or user: Administrator

Bind password: .....

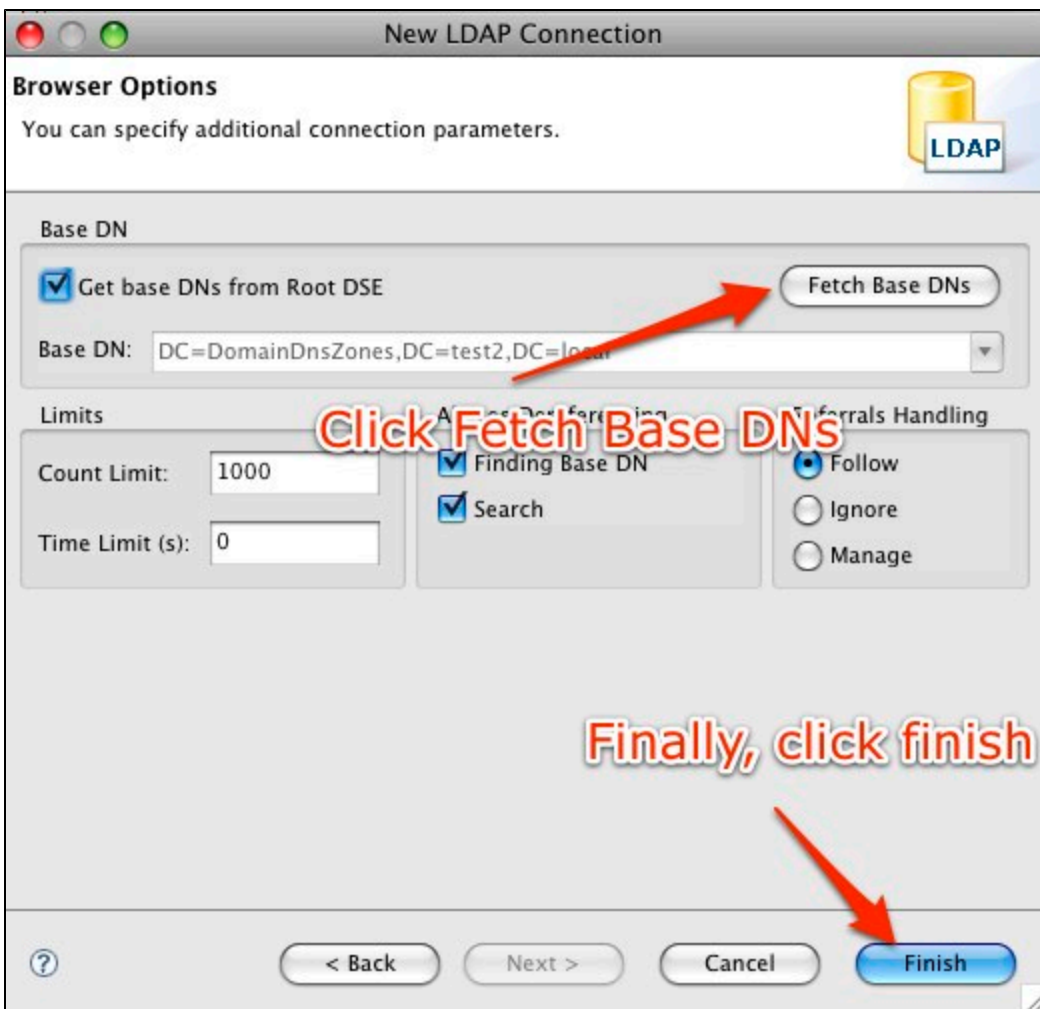
SASL Realm:

☒ Save password

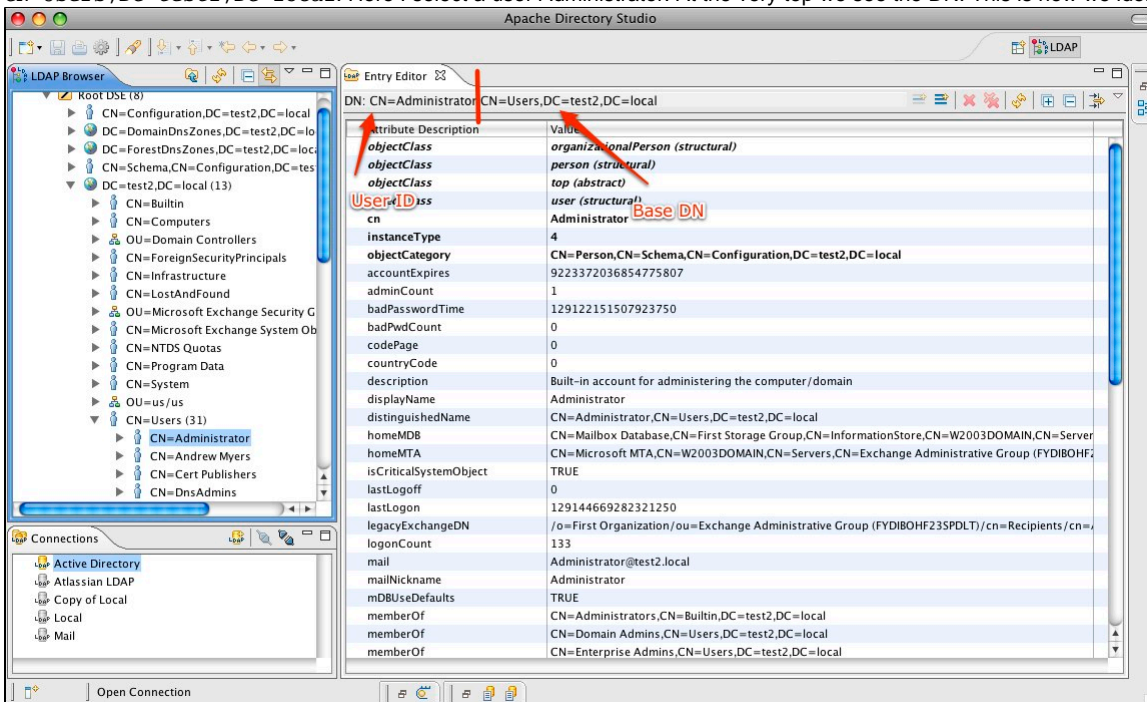
Check Authentication

? < Back Next > Cancel Finish





3. Now we have a connection to AD. Browse to the location where your users are stored. In my case its under CN=Users, DC=test2, DC=local. Here I select a user Administrator. At the very top we see the DN. This is how we identify the users.



In this instance the DN is CN=Administrator,CN=Users,DC=test2,DC=local, so the Base DN for FishEye would be CN=Users,DC=test2,DC=local. CN=Administrator identifies the user, so the user filter would be (CN=\${USERNAME}).



For Active Directory: Windows logins use `sAMAccountName` as the login username, so it is more correct to use `(sAMAccountName=${USERNAME})` as the User ID filter if you want to match the FishEye/Crucible logins to Windows logins.

- For the UID attribute, email attribute and the display name attribute, I can get that information from the right hand pane above. In my case UID attribute is `cn`, the email attribute is `mail` and the display name attribute is `displayName`.
- With all that information we are now ready to connect FishEye to AD. To summarise we have:

<b>LDAP URL</b>	ldap://w2003domain.sydney.atlassian.com:389
<b>Base DN</b>	CN=Users,DC=test2,DC=local
<b>User Filter</b>	(CN=\${USERNAME})
<b>UID Attribute</b>	cn
<b>Email Attribute</b>	mail
<b>Display Name Attribute</b>	displayName
<b>Initial Bind user</b>	Administrator
<b>Initial bind password</b>	password

- Placing that information into FishEye:

**LDAP Authentication settings**

**URL:** ldap://w2003domain.sydney.atlassian.com:389

**Base DN:** CN=Users,DC=test2,DC=local

**User Filter:** (CN=\${USERNAME})

**UID attribute:** cn

**Email attribute:** mail

**Display name attribute:** displayName

**Cache TTL (positive):** 5 minutes

**Auto-add users into FishEye:** true

**Initial bind user:** Administrator

**Synchronise Period:** false

[Re-Sync \\*](#) | [Edit](#) | [Test](#) | [Remove](#)

\* Synchronising with a large user base can lead to [Performance Issues](#)

#### Useful References

- LDAP Authentication
- [http://www.computerperformance.co.uk/Logon/LDAP\\_attributes\\_active\\_directory.htm](http://www.computerperformance.co.uk/Logon/LDAP_attributes_active_directory.htm)

## Configuring Public Signup

If you enable *public signup* for your FishEye system, visitors can create their own FishEye user accounts via the '**Signup**' link on the login screen:

**Login Required**

**Username:**

**Password:**

Not a member? [Signup](#) for an account.

Public signup is disabled by default.

To enable public signup,

1. Go to the FishEye **'Admin Menu'**.
2. Click the **'Security'** link in the left navigation column.
3. The **'Authentication Settings'** page will be displayed (see screenshot below).
4. Next to **'Public Signup'**, click the **'On'** link.
5. Log out of FishEye and verify that the login screen now contains a **'Signup'** link.

*Screenshot: 'Authentication Settings — Public Signup'*

**Authentication Settings**

**Permissions Summary**

	Allow anon access	Built-in Groups	Action
<b>Global:</b>	YES (No)		
<b>Crucible:</b>	NO (Yes)	GR	
<b>Repository Default:</b>	YES	non set	<a href="#">Edit</a>
<b>Per-repository:</b>			
<b>svn:</b>	YES (default)	default	<a href="#">Edit</a>
<b>website:</b>	YES (default)	default	<a href="#">Edit</a>

**Built-in**

**Public Signup:** OFF (On)

**Authentication settings**

[Setup Crowd authentication](#)

[Setup host authentication](#)

[Setup LDAP](#)


[Setup AJP13 authentication](#)

[Setup Custom authentication](#)

## Creating a Group

There are two types of FishEye user groups:

- 'Built-in' groups — these are stored in the FishEye database.
- 'External' groups — these are stored in an external directory (e.g. Crowd), if any are configured. See [Configuring External Authentication Sources](#).

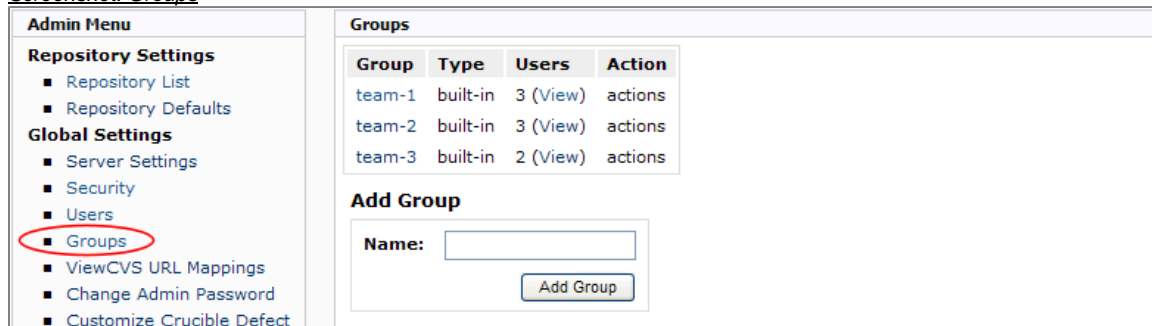
 Note that 'external' groups can only be created in your external directory.

To add a 'built-in' group,

1. Click **'Groups'** on the **'Admin Menu'**.
2. The **'Groups'** screen will be displayed (see screenshot below), showing a list of existing groups.
3. Type the name of your new group into the **'Name'** field and click the **'Add Group'** button at the bottom of the screen.
4. Your new group will now appear in the list of groups.

 To add users to your new group, see [Adding a User to a Group](#).

*Screenshot: Groups*



Group	Type	Users	Action
team-1	built-in	3 (View)	actions
team-2	built-in	3 (View)	actions
team-3	built-in	2 (View)	actions

**Add Group**

Name:

## Creating a User

There are two types of user accounts:


- 'Built-in' user accounts — these are stored in the application's local database.
- 'External' user accounts — these are stored in an external directory (e.g. LDAP), if any are configured. See [Configuring External Authentication Sources](#).



### Note re external directories:

- New users can only be added if they already exist in the external directory. Your external directory will not be modified.
- If you have enabled 'auto-add' for your [external directory](#), users who don't exist locally will be automatically added the first time they log in.

To add a new user,

1. Click **'Users'** on the **'Admin Menu'**.
2. The **'User Browser'** screen will be displayed (see screenshot below). Click the **'Add User'** button at the bottom of the screen.
3. The **'Add new user'** screen will be displayed.
4. In the **'Username'** field, type the user's login name. You can use the following characters:
  - letters and numbers
  - hyphen ('-')
  - underscore ('\_')
  - 'at' sign ('@')
5. In the **'Display name'** field, type the user's display-name.
6. (Optional) In the **'Email'** field, type the user's email address. This address is where the user will receive notifications.
7. In the **'Auth Type'** field, select either **'Built-in'** or the name of the appropriate [external directory](#) where the user will be stored.
8. (For built-in users only) In the **'Password'** and **'Confirm Password'** fields, type the user's password.
-  The user can easily [change their own password](#) later.
9. Click the **'Add'** button.

*Screenshot: User Browser*

**User browser**

The User Browser allows you to browse all the users in the system. Filters allow you to limit the users that you see.  
 Displaying users 1 to 6 of 6. ([Reset filter](#))

**Email contains:** 
**In Group:** Any ▼ Filter

User	Display name	Email	Auth	Action
brendan	Brendan Humphreys	brendan@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
conor	Conor MacNeill	conor@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
matt	Matt Quail	matt@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
nick	Nick Pellow	nick@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
pete	Peter Moore	pete@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
pmcneil	Peter McNeil	pmcneil@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>

[Add User](#)

## Deleting or deactivating a User

To revoke a user's access to FishEye, you need to **delete** the user's account.

To revoke a user's access to Crucible, you can either:

- delete the user's account; or
- deactivate the user's account (this has the advantage of being easy to undo if required).

Note that the number of users granted by your FishEye license may be different from the number of users granted by your Crucible license.

To deactivate a user's Crucible account,

1. Click **'Users'** on the **'Admin Menu'**.
2. The **'User Browser'** screen will be displayed (see screenshot below), showing a list of users.
3. Locate the user and click the corresponding **'Edit'** link.
 

**i** If the user doesn't initially appear on the screen, type part of their email address and/or select a group to which they belong, and click the **'Filter'** button.
4. The **'Edit User'** screen will be displayed. Deselect the **'Active Crucible user'** check-box.
5. Click the **'Apply'** button.

To delete a user's FishEye (and Crucible) account,

1. Click **'Users'** on the **'Admin Menu'**.
2. The **'User Browser'** screen will be displayed (see screenshot below), showing a list of users.
3. Locate the user and click the corresponding **'Delete'** link.
 

**i** If the user doesn't initially appear on the screen, type part of their email address and/or select a group to which they belong, and click the **'Filter'** button.

*Screenshot: Authentication Settings*

**User browser**

The User Browser allows you to browse all the users in the system. Filters allow you to limit the users that you see.  
 Displaying users 1 to 6 of 6. ([Reset filter](#))

**Email contains:** 
**In Group:** Any ▼ Filter

User	Display name	Email	Auth	Action
brendan	Brendan Humphreys	brendan@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
conor	Conor MacNeill	conor@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
matt	Matt Quail	matt@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
nick	Nick Pellow	nick@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
pete	Peter Moore	pete@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
pmcneil	Peter McNeil	pmcneil@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>




[Add User](#)

## Editing a User's Details

There are two types of user accounts:

- 'Built-in' user accounts — these are stored in the application's local database.
- 'External' user accounts — these are stored in an external directory (e.g. LDAP), if any are configured. See [Configuring External Authentication Sources](#).

To edit a user's details,

- Click **'Users'** on the **'Admin Menu'**.
- The **'User Browser'** screen will be displayed (see screenshot below), showing a list of users.
- Locate the user and click the corresponding **'Edit'** link.
  -  If the user doesn't initially appear on the screen, type part of their email address and/or select a group to which they belong, and click the **'Filter'** button.
- The **'Edit User'** screen will be displayed. You can update the following fields:
  - 'Display Name'** — type the user's display-name.
    -  To change the user's login name, see [Renaming a User](#).
  - 'Email'** — type the user's email address. This address is where the user will receive notifications.
  - 'Auth Type'** — select either **'Built-in'** or the name of the appropriate external directory where the user will be stored.
    -  By changing the **'Auth Type'**, you are moving the user to a different directory.
- Click the **'Apply'** button.

*[Screenshot: User Browser](#)*

**User browser**

The User Browser allows you to browse all the users in the system. Filters allow you to limit the users that you see.  
 Displaying users 1 to 6 of 6. ([Reset filter](#))

**Email contains:** 
**In Group:** Any ▼ Filter

User	Display name	Email	Auth	Action
brendan	Brendan Humphreys	brendan@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
conor	Conor MacNeill	conor@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
matt	Matt Quail	matt@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
nick	Nick Pellow	nick@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
pete	Peter Moore	pete@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>
pmcneil	Peter McNeil	pmcneil@cenqua.com	built-in	<a href="#">Edit</a>   <a href="#">Delete</a>   <a href="#">Logout</a>

[Add User](#)

## Changing a User's Password

There are two types of user accounts:

- 'Built-in' user accounts — these are stored in the application's local database.
- 'External' user accounts — these are stored in an external directory (e.g. LDAP), if any are configured. See [Configuring External Authentication Sources](#).

**i** You can only change the passwords of 'built-in' users.

To change a user's password,

1. Click **'Users'** on the **'Admin Menu'**.
2. The **'User Browser'** screen will be displayed (see screenshot below), showing a list of users.
3. Locate the user and click the corresponding **'Edit'** link.
 

**i** If the user doesn't initially appear on the screen, type part of their email address and/or select a group to which they belong, and click the **'Filter'** button.
4. The **'Edit User'** screen will be displayed. Click the **'Change Password'** link.
5. The **'Change Password'** screen will be displayed. Type the new password and click the **'Apply'** button.

## Renaming a User

There are two types of user accounts:

- 'Built-in' user accounts — these are stored in the application's local database.
- 'External' user accounts — these are stored in an external directory (e.g. LDAP), if any are configured. See [Configuring External Authentication Sources](#).

**i** Renaming a user changes their login name. To change their Display Name, please see [Editing a User's Details](#).

To rename a user,

1. Click **'Users'** on the **'Admin Menu'**.
2. The **'User Browser'** screen will be displayed (see screenshot below), showing a list of users.
3. Locate the user and click the corresponding **'Edit'** link.  
 ⓘ If the user doesn't initially appear on the screen, type part of their email address and/or select a group to which they belong, and click the **'Filter'** button.
4. The **'Edit User'** screen will be displayed. Click the **'Rename'** link.
5. The **'Rename user'** screen will be displayed. Type the new username and click the **'Rename'** button.

## Granting Administrator Privileges

FishEye can now grant Admin privileges to users and groups. These exist in addition to the core 'Admin' account (in FishEye/Crucible 1.6 onwards).

⚠ Be sparing in granting Admin privileges, as all Admin users have the 'keys to the kingdom'. They can add or remove other's user or group admin rights, and change the password of the core Admin account.

Once logged in as admin, you have the following option in the Admin screen:

*Screenshot: The Administrators Menu Option*



### Setting Admin privileges for individual users

To set user's Admin rights, log in as the Admin user and select **'Global Settings' > 'Administrators'** from the left navigation bar.

To grant a user admin rights:

- Select the username in the **'Non-Admin Users'** column.
- Click the **'Add'** button.
- The username appears in the **'Admin Users'** column.

To remove a user's admin rights:

- Select the username in the **'Admin Users'** column.
- Click the **'Remove'** button.
- The username appears in the **'Non-Admin Users'** column.

⚠ Take care not to remove admin rights from your own account.

*Screenshot: Setting User's Admin Settings*



Manage Admin Users and Groups

Non-Admin Users

Admin Users

Add >>

<< Remove

aasonitis  
abarron  
achan  
achowdhury  
agoldman  
ahempel  
akazatchkov  
alui  
alynch  
amazkvoi  
andreask  
aprentice  
bbain  
bbaker  
bhumphreys  
cbroadfoot  
cjerozal  
cmacneill  
cmiller  
contegix

abuttfield  
edawson  
mquail  
pmoore

Manage Users

### Setting Admin privileges for groups

To set a group's Admin rights, log in as the Admin user and select '**Global Settings**' > '**Administrators**' from the left navigation bar.

To grant a group admin rights:

- Select the group name in the '**Non-Admin Groups**' column.
- Click the '**Add**' button.
- The group name appears in the '**Admin Groups**' column.

To remove a group's admin rights:

- Select the group name in the '**Admin Groups**' column.
- Click the '**Remove**' button.
- The groups name appears in the '**Non-Admin Groups**' column.



Take care not to remove admin rights from your own account.

*Screenshot: Setting Group Admin Settings*

The screenshot shows a web interface for managing groups. It is divided into two main sections: 'Non-Admin Groups' on the left and 'Admin Groups' on the right. In the 'Non-Admin Groups' section, there is an 'Add >>' button at the top. Below it is a scrollable list of group names: accounts-payable, atlassian-advocates, atlassian-cfo, atlassian-cpp-team, atlassian-dev, atlassian-founders, atlassian-hr, atlassian-individuals, atlassian-management, atlassian-marketing, atlassian-office-management, atlassian-president, atlassian-sales, atlassian-staff, atlassian-support, atlassian-sysadmin, atlassian-xplatform, atlassian-xplatform-dev, bamboo, and bamboo-admin. In the 'Admin Groups' section, there is a '<< Remove' button and an empty rectangular box below it. At the bottom center, there is a link labeled 'Manage Groups'.

## Load all users from Active Directory, LDAP or Atlassian Crowd

FishEye and Crucible can load an external user base stored in Active Directory, Atlassian Crowd, or any LDAP-compatible user repository.

### 1. Configuring your external source

You must firstly set up FishEye/Crucible to connect to your external user repository, either LDAP-based (including Active Directory) or Atlassian Crowd. Follow the steps in the documentation pages listed below and then return to Step 2 on this page.

- [LDAP Authentication](#)
- [Crowd Authentication](#)



You can only have one external user repository connected to FishEye/Crucible. If you need multiple repositories, you can use Atlassian Crowd to collate users from multiple sources and then connect FishEye/Crucible to Atlassian Crowd.

### 2. Loading external users

To load users from Atlassian Crowd;

1. From the '**Admin Menu**', click '**Global Settings**' then '**Security**'.
2. Under Security, find the option '**Synchronise users with Crowd**'. Select the '**Yes**' option by clicking the radio button. Click '**Apply**' to complete the process.
3. As soon as an option has been selected and '**Apply**' has been clicked, users are immediately added to the user list.



Note that users with identical names to existing users will not be imported. In the Users list, you can check whether each user is from the local database or loaded externally.

### 3. Setting the synchronise period

The '**synchronise period**' option allows you to set the time interval when FishEye or Crucible will synchronise with the LDAP directory. You can use intuitive settings such as '**1m**' for one minute, '**1h**' for one hour, and so on. Simply enter the time interval and click '**Apply**'.



#### Synchronising Large User Repositories

If you have a rather large user repository, then please read this document on best practices for [Synchronising With Large Repositories](#).

## Synchronising With Large Repositories

When FishEye synchronises with external repositories (LDAP, AD or Crowd) it adds all visible users in the repository, even if you do not want all these users to have access to FishEye.

For example you may have restricted [viewing permissions to your repositories](#) to a single LDAP group (using a filter). However the synchronise button will import all your LDAP users, because each of these users will be able to log into fisheye, even though they will not have permission to view any repository.

This is unavoidable, as users may create another repository in the future or a repository with no group based restrictions.

Also if you have a large number of users in you LDAP, then a synchronise needs to check if for each user within Fisheye, to see if they still exist in LDAP and for each user in LDAP to see if they exist in Fisheye. This can be quite taxing when you have a large user base. It will also require more memory and could lead to

```
OutOfMemoryError: Java Heap Space errors.
```

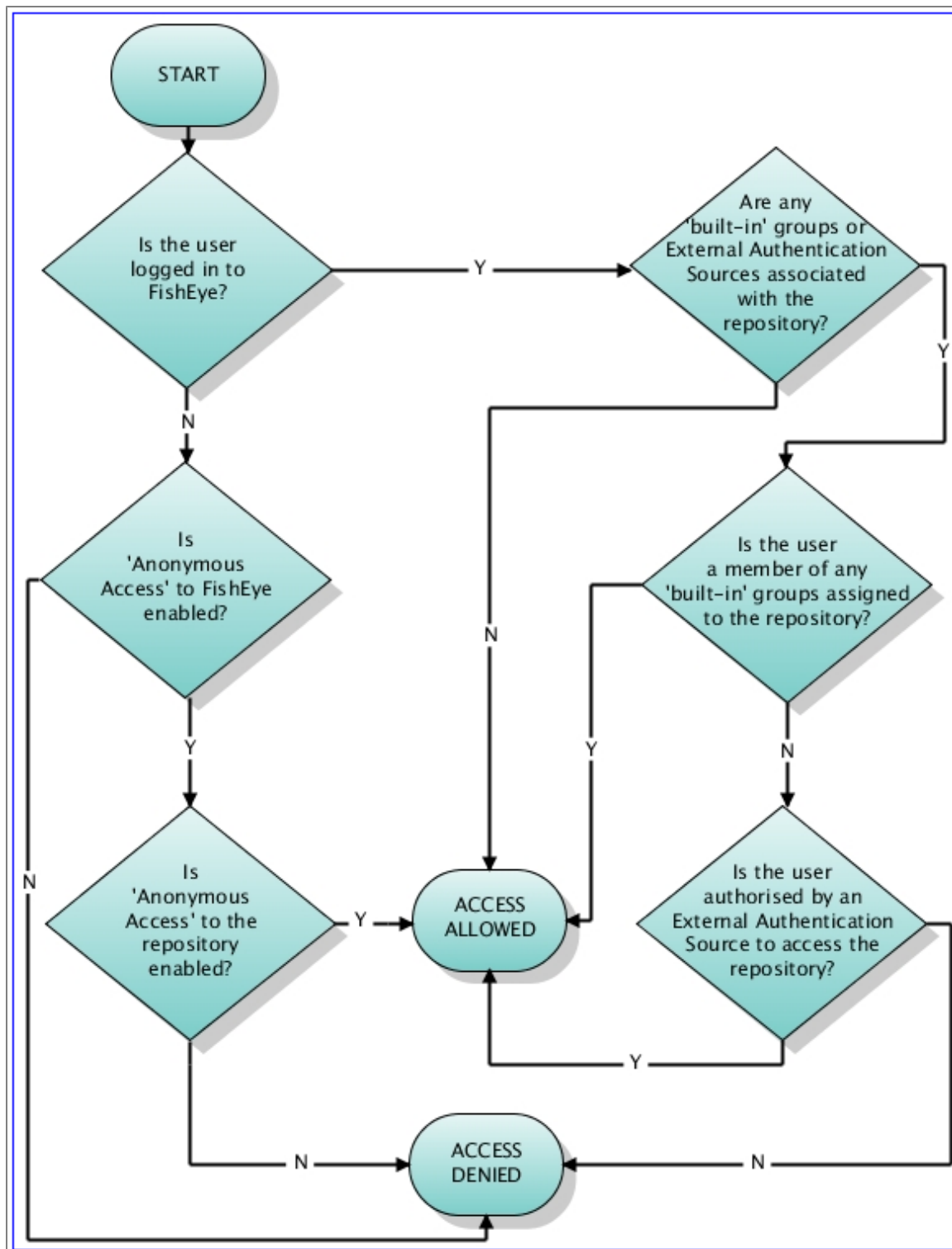
Additionally, when setting up external authentication for large repositories: set "[Synchronise users with LDAP](#)" to no. Next turn on "Auto-add" users to on, so that any External user that matches your defined user filter who logs into FishEye, will be added as a user (NOTE: Auto-add does not mean any user will have access to FishEye, only users that can successful authenticate against your LDAP server, using the settings you have defined within FishEye, will be added. They first must pass the authentication before they will be added).

You should always try to restrict your [user filter](#) when setting up your LDAP authentication to only match the small subset of users that should have access to Fisheye.

## Understanding security

The following flowchart shows how to determine whether a user is allowed to access a FishEye repository:

*Screenshot: FishEye Security Flowchart*



## Trusted Applications

A **'trusted application'** is an application that FishEye will allow to access specific functions in FishEye, on behalf of any user — without the user logging in to FishEye. You can set up trusted apps authentication between FishEye, Crucible, JIRA (3.12 and later) and Confluence (2.7 and later) servers.

Application links with trusted apps authentication (as well as other types of authentication) can be set up by using the bundled Unified Application Links plugin.

For further instructions, please see the [Application Links Documentation](#), particularly the [Application Links Quick Start Guide](#).

**Related Topics**

[Application Links Documentation](#)  
[JIRA Integration in FishEye](#)

## Advanced Administration Options

- [Command-Line Options](#)
- [Configuring Indexing](#)
- [Customising FishEye's Look & Feel](#)
- [Environment Variables](#)
- [Re-indexing your Repository](#)
- [Tuning FishEye](#)

## Command-Line Options

A FishEye instance can be managed using the `fishyeectl` script. Before running this script you need to ensure that you have set the `JAVA_HOME` environment variable, or that `java` is on the path.

Unix usage:

```
/FISHEYE_HOME/bin/fisheyeectl.sh command [options]
```

Windows usage:

```
\FISHEYE_HOME\bin\fisheyeectl.bat command [options]
```

The *command* parameter can be one of `run`, `start` or `stop` (see below). You can also find convenience scripts for running each of these commands, such as `run.sh` or `run.bat`.

### ***run***

The `run` command starts FishEye. This command runs FishEye in the foreground. It does not fork a background process.

### ***start***

The `start` command has the same options as `run`, but starts FishEye in the background.


**Windows:** FishEye will be run in a separate `cmd.exe` window.

**Unix:** FishEye will be run with `nohup` and the console output will be redirected to `$FISHEYE_INST/var/log/fisheye.out`.

Options (for both `run` and `start`):

<code>--config path</code>	Load configuration from the file at <code>path</code> . Default is <code>\$FISHEYE_INST/config.xml</code> .
<code>--quiet</code>	Do not print anything to the console.
<code>--debug</code>	Print extra information to the debug log.
<code>--debug-perf</code>	Print performance-related information to the debug log.

The following options are currently available, but will be removed at a later date:

<code>--xtab-width nchars</code>	Specifies the number of spaces to use to represent a tab character. The default is 8.
<code>--xdisable-dirtree-empty-checks</code>	<p>When rendering the directory tree on some pages, FishEye calculates if each directory subtree is empty. For massive repositories, this calculation can cause the page to take a long time to render. This option disables the calculation that determines emptiness.</p> <div style="background-color: #ffffcc; padding: 10px; border: 1px solid #ccc;">  If you start fisheye with this flag, then empty directories will no longer show up as grey (i.e. deleted) and the option to hide them will also disappear </div>

<code>--Xdisable-content-indexing</code>	Disable the generation of a full-text index for file content. This prevents further indexing, but does not delete any existing full-text indexes. FishEye will not warn you if you specify this option but still try to do a content search. This option is useful if you do not use content search and you are finding FishEye is taking a long time to index your content.
--	--

**stop**

The `stop` command stops a running FishEye instance.

Options:

<code>--config path</code>	Load configuration from the file at <code>path</code> . Default is <code>\$FISHEYE_INST/config.xml</code> .
----------------------------	---

**fullscan**

Usage:

```
fishyeectl fullscan [options] [rename ...]
```

The `fullscan` command requests a full scan of the given repositories, or all repositories if no repository name is given

Options:

<code>--config path</code>	Load configuration from the file at <code>path</code> . Default is <code>\$FISHEYE_INST/config.xml</code> .
----------------------------	---

**rescan**

Usage:

```
fishyeectl rescan [options] rename start end
```

Requests a rescan of the given repository between two specified revision ids.

**Note:** this operation is not supported by CVS repositories.

Options:

<code>--config path</code>	Load configuration from the file at <code>path</code> . Default is <code>\$FISHEYE_INST/config.xml</code> .
----------------------------	---

**reindex**

Usage:

```
fishyeectl reindex [options] [rename ...]
```

Requests a full reindex of the given repositories, or all repositories if no repository name is given.

Options:

<code>--config path</code>	Load configuration from the file at <code>path</code> . Default is <code>\$FISHEYE_INST/config.xml</code> .
----------------------------	---

**scannow**

The `scannow` command requests an incremental scan from the command line.

Usage:

```
fishyeectl scannow -s [rename ...]
```

Options:

-s	Run synchronously; i.e. the command will not terminate until the requested indexing operation is complete.
----	--

- You can set the poll period to '**Never**' in which case the repo will be viewable from the web UI but the repository will not be polled.
- Repositories may be polled in the demand using this code:

```
fishyeectl.sh scannow [reponame ...]
```

This will perform a one-time indexing operation.

**Note:** scannow can also be used on a repository which has a poll period.

## backup

Usage:

```
fishyeectl backup -f [filename]
```

The `backup` command creates a zip archive containing important FishEye configuration files.

Options:

-f filename	Store the backup.zip to filename. Default is \$FISHEYE_INST/backup/backup_yyyyddMMHHmmss.zip.
-------------	---


## Configuring Indexing

### Understanding How FishEye Indexes Repositories

FishEye's administration interface now allows you to configure the number of threads used for repository indexing. FishEye uses two types of indexing operation:

- Initial indexing** - the complete scan of the repository that FishEye does when FishEye first accesses the repository, and
- Incremental indexing** - the quick, background process that regularly scans repositories for changes.

The number of threads available for these indexing operations is now configurable.

 Prior to FishEye 1.5, a transient error during processing the initial indexing operation would cause a repository to move to the incremental indexing thread, even when a large amount of indexing remained. This would impact the incremental indexing of other repositories in the FishEye instance. In FishEye 1.5 this has been corrected. A repository will remain on the initial indexing thread until it has successfully completed the initial indexing operation.

### Setting FishEye's Total Threads

To configure the number of threads FishEye uses for indexing, open the FishEye '**Admin Screen**', then click '**Server Settings**'. Now, click '**Edit Details**' under '**Resource Limits**'. You can increase the number of threads available for each indexing phase independently. Enter the desired number of threads for each process and Click '**Update**'.

*Screenshot: FishEye Multi-threading Configuration*



**Edit Server Resource Limits**

**Max Initial Index Threads:**

**Max Incremental Index Threads:**


### Choosing a Thread Setting

As changing the number of threads always involves a trade-off in performance, you should generally change these settings in increments of one, then observe the performance impact. A safe range is from 1-3 threads on both settings. Using more than three threads on either setting is not

recommended; the more threads, the busier the server will become when indexing. There is certainly no benefit in having more threads than you have repositories. Adding a lot of threads may impact overall system performance.

By default, FishEye uses one thread each for the two indexing modes. This is equivalent to the functionality in FishEye prior to version 1.5.

For more information on managing FishEye's performance, see the [FishEye Tuning](#) page.

 *This feature was introduced in FishEye 1.5.*

## Customising FishEye's Look & Feel

FishEye enterprise license users have access to the HTML/JSP source of FishEye and can customise FishEye's look and feel.

### *FishEye Source Edition*

To use custom HTML/JSP content, you must be using a build of FishEye that contains the JSP source. These builds are named `fisheye-1.x.y-jspsource.zip` instead of the normal `fisheye-1.x.y.zip` bundle.

If you have a commercial license assigned to your account, you will see a '**source download**' option on your download page.

### *Customising Content*

You can modify any of the files in `FISHEYE_HOME/content/`. However we strongly recommend that you use separate `FISHEYE_HOME` and `FISHEYE_INST` directories (as described in the [Installation Guide](#)), and that you store your modified files in `FISHEYE_INST/content` (If you use `FISHEYE_INST/content`, you only need to keep your modified JSP/HTML files in that directory. This simplifies your upgrade process).

When you make changes to content, your changes should appear when you next refresh the page in your browser. If they do not, then log into the FishEye Administration screens, click '**Content**' on the '**Admin Menu**' and follow the instructions on the 'Content' page.

*Screenshot: Content Page*

**Content**

Note: these functions are intended for people with the JSP-Source Edition.

**Custom content directory:** `/opt/local/crucible/instance/content`

[Flush](#)

When updating JSPs or other content, you may need to **flush** before that content is served by FishEye. In some situations, such as deleting an existing file from your custom content, a **flush** not be sufficient. In such cases:

- Stop FishEye.
- Delete the JSP classes directory: `/opt/local/crucible/instance/var/tmp/web`
- Restart FishEye.

## Environment Variables

Environment variables are system-wide settings that are required for certain applications. [Instructions on Setting Environment Variables](#) are [here](#). The following is a list of the environment variables used by FishEye.

### **JAVA\_HOME**

The `JAVA_HOME` environment variable is used by FishEye to select the Java Virtual Machine (JVM) to be used to run FishEye. If this environment variable is not set, FishEye will use whatever Java executable is available on the path. In Linux systems, this may sometimes be GCJ-based which causes some problems running FishEye.

See the [instructions on setting JAVA\\_HOME](#).

### **FISHEYE\_OPTS**

FishEye uses the `FISHEYE_OPTS` environment variable to pass parameters to the Java Virtual Machine (JVM) used to run FishEye. This is typically used to set the Java heap size available to FishEye (see [Fix out of Memory Errors](#)). With a Sun JVM, for example, you would use:

```
FISHEYE_OPTS=-Xmx1024m -XX:MaxPermSize=128m
```

This would give FishEye a max of 1024 MByte heap, a Max permanent generation size of 128m. See [Tuning FishEye](#) for more information.

After having set the `FISHEYE_OPTS` and restarting your server, go to Administration > Sys Info/Support > System Info, and check your JVM Input Arguments to ensure that your server is picking up your `FISHEYE_OPTS` as expected.



## ***FISHEYE\_ARGS***

FISHEYE\_ARGS are the arguments which will be passed to FishEye when it is started. You can set this to --debug, for example, or --debug-perf if you always want to have FishEye debugging put into the FishEye log files.

## ***FISHEYE\_LIBRARY\_PATH***

The FISHEYE\_LIBRARY\_PATH environment variable tells FishEye where it should look to load any additional native libraries.

## ***FISHEYE\_INST***

The FISHEYE\_INST variable tells FishEye where to store its data. If you wish to separate FishEye's data from its application files in FISHEYE\_HOME, you should use this variable.

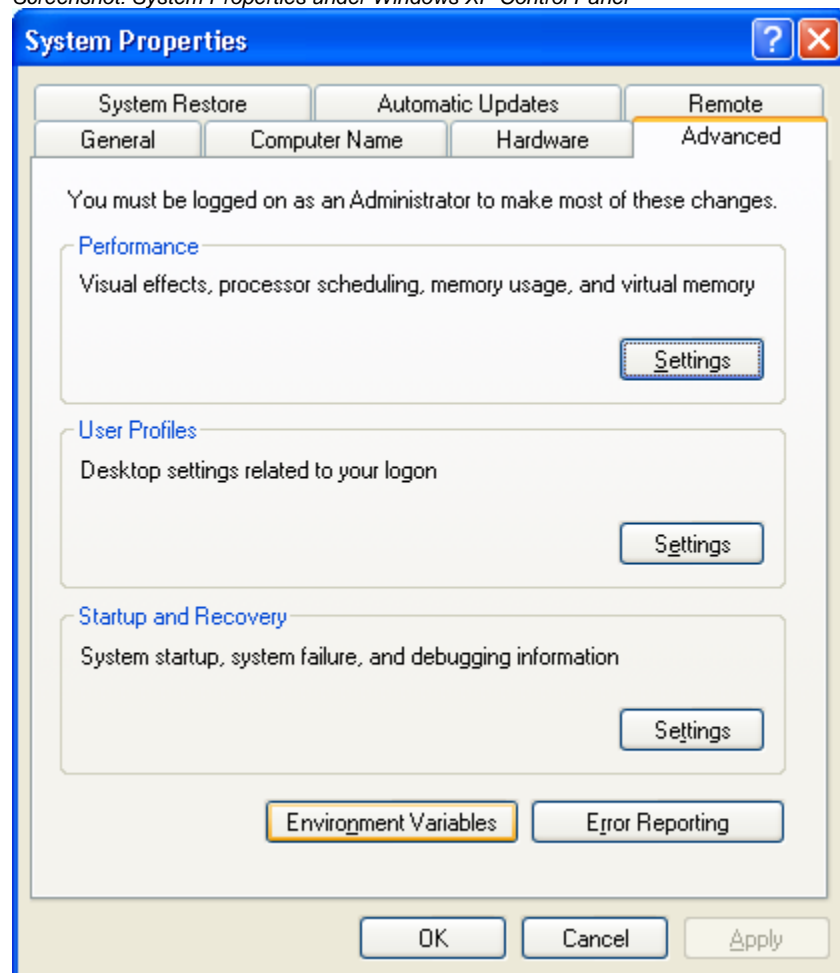
 Read more about using FISHEYE\_INST in the [Installation Guide](#).

## **Setting Environment Variables under Windows XP**

(If you are running Fisheye as a [windows service](#) you need to refer to the instructions [here](#))  
(Linux instructions are [here](#))

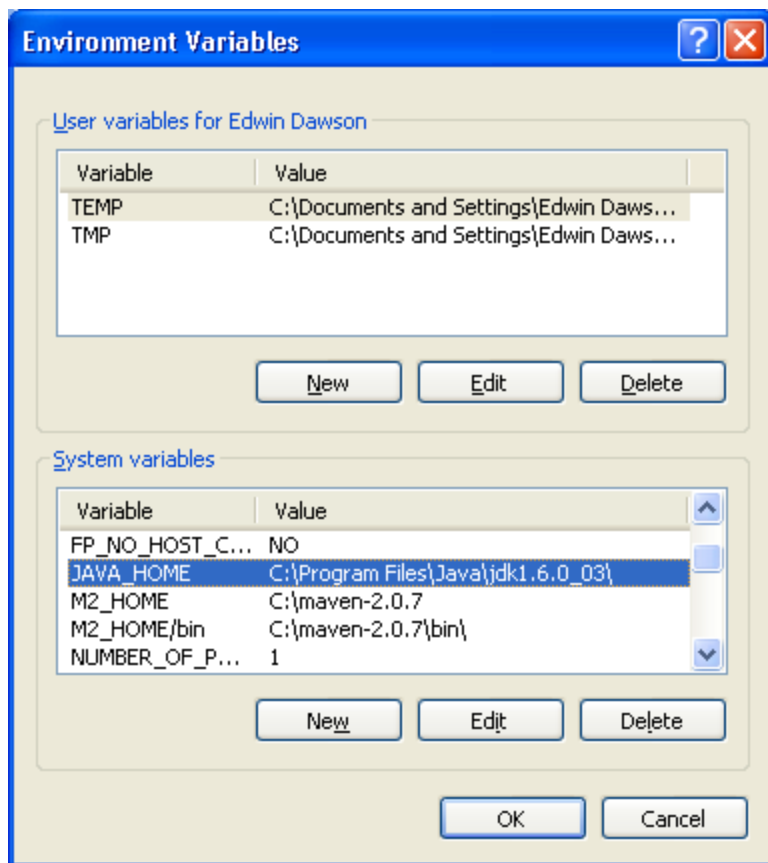
1. Click 'Start' > 'Control Panel' > 'System'.

Screenshot: System Properties under Windows XP Control Panel



2. Click the 'Advanced' tab.
3. Click the 'Environment Variables' button.

Screenshot: Environment Variables under Windows XP Control Panel



4. Click 'New'.
5. In the 'Variable name' field, enter the name of the environment variable, for example

FISHEYE\_OPTS

6. In the 'Variable value' field, enter the setting as required. This may be quite cryptic, for example the default value for FISHEYE\_OPTS is this:

-Xmx256m

*Screenshot: Setting Environment Variables under Windows XP*



7. Restart the computer.

### Setting Environment Variables for Windows Services

Please note, that if you do run as a [service](#), then any Environment Variables that you want to set, need to be set in your FISHEYE\_HOME/wrapper/conf/wrapper.conf file.

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

```
# JDK 1.5 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"
```

For example if you wish to add a FISHEYE\_INST environment variable or add the java parameter "MaxPermSize", or the -Xrs options (should be used if running FishEye as a service under Windows, to prevent the JVM closing when an interactive user logs out) then it would be something like:

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

Your memory settings can also be found in this file:

```
# Initial Java Heap Size (in MB)
wrapper.java.initmemory=32

# Maximum Java Heap Size (in MB)
wrapper.java.maxmemory=256
```

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

### ***Setting Environment Variables under Linux or UNIX based platforms***

There are a number of ways to set environment variables on Linux or UNIX based systems (including **Mac OS X**). Here are just two:

#### **For your current user:**

1. Open up a shell or terminal window
2. Type this command:

```
vi ~/.profile
```

(vi is a text editor, you can use another if desired)

3. Add this command:

```
export (variable name)=(variable value)
```

Where (variable name) and (variable value) are the environment variable elements. For example, if the environment variable you are setting is FISHEYE\_OPTS, and the variable value is -Xmx256m, you would type the following:

```
export FISHEYE_OPTS=-Xmx256m
```


Add this command on its own line at the end of the file.

4. Save, and restart your shell.

#### **For all users in the system:**

1. Open up a shell or terminal window
2. vi /etc/profile (replace vi with your favourite text editor)
3. Add export (variable name)=(variable value) on its own line at the end of the file
4. Save, and restart your shell


If you are using a GUI, you may not need to open up the shell. Instead, you might be able to open the file directly in a graphical text editor.

 If you are experiencing memory errors in FishEye, see [Fix Out of Memory errors by increasing available memory](#).

## Re-indexing your Repository

This page contains instructions on how to re-index your repository in FishEye.


Re-indexing involves FishEye doing an intensive scan of the repository contents, so it can quickly show the repository data via FishEye's web interface. Re-indexing may be required in a number of situations such as server maintenance, changes in your repository, major setting changes and upgrades to FishEye.

 Due to the complexity of SCM repositories, an indexing scan may take many hours or even days to complete. During this time, your FishEye users may be inconvenienced as they will not be able to view the repository being indexed. As a result, Crucible users will not be able to carry out reviews unless you have Crucible set to [store all revisions offline](#).

### Performing a Manual Re-index

To re-index your repository,

1. Open the '**Admin Menu**', by clicking the '**Administration**' link in the footer of any FishEye page.
2. The '**Repository List**' screen opens by default. In the main window, the list of configured repositories is shown. Click '**View**' next to the desired repository, then click on maintenance.
3. Select one of the re-indexing options discussed below.
4. The repository will be re-scanned, a process that may take hours or possibly days, depending on the size of the repository, network speed, machine performance and other factors.

 How do I mitigate long re-index times when upgrading? [See the FAQ page](#) on this topic.

### Indexing Settings

Settings and administrative operations for repository indexing are located on the [Indexer](#) page.

To access indexing functions for a repository,

1. Click the menu labelled with your user name in the the FishEye/Crucible header, and click the '**Administration**' option. You will need to be logged in as an [administrator](#) to see this link. The FishEye/Crucible administration console will be displayed.
2. Click the '**Repositories**' link. The list of repositories set up in your FishEye instance will be displayed.
3. Click the name of the repository, (under the '**Name**' column in the list of repositories). The Repository Options for the repository will be displayed in a dialogue.
4. Click the '**Maintenance**' tab. Indexing information for the repository will be displayed as well as indexing functions (see screenshot below).
  - '**Repository Source Index**':
    - Click the '**Start**' button next to '**Scan for Updates**' to run a repository scan (also referred to as indexing) now. If the repository has already been indexed, it will be an incremental scan, otherwise an "initial" scan. This is especially useful if you have not set the repository to poll automatically, or it is set with a long poll (interval) period.
    - Click the '**Start**' button next to '**Re-index**' to delete the current cache and re-index the repository from the beginning. This action will also restart the repository.
  - '**Review-Revision Data Index**' — *(applies only when using Crucible with FishEye)* Click the '**Start**' button next to '**Re-index**' to re-index all the Crucible review data associated with the current repository.
  - '**Line Count Data Index**' — Click the '**Start**' button next to '**Re-index**' to re-index the linecount data used to generate the LOC (Lines Of Code) charts. The linecount data will be recalculated in daily buckets based on the server timezone.
  - '**Subversion Non-Version Properties (revprops)**' — *(Subversion repositories only)* Set the revision numbers to scan from and to, and click the '**Start**' button next to '**Re-index**' to rescan non versioned properties (revprops). In Subversion it is possible to enable non-versioned properties (e.g. the check-in comments) to be updated by committers. When this happens, FishEye will not automatically pick up the updates. By rescanning specific revisions, FishEye will rescan the non-versioned properties and amend the entry in FishEye accordingly.

Screenshot: *FishEye Index Maintenance menu*

Repository "FE"

Summary

**Maintenance**

SCM Details

Updates

Linkers

Permissions

Allow (Process)

Hidden Directories

Tarballs

Commit Messages

Other Settings

Indexing Status

Current Activity: **Idle**

Status Message: **N/A**

Last Index Update: **9 seconds ago**

Repository Source Index

Scan For Updates:  ?

Re-index:  ?

Review-Revision Data Index

Re-index:  ?

Line Count Data Index

Re-index:  ?

Subversion Non-Versioned Properties (revprops)

Re-scan:  from revision  to revision  ?

Test Connection

Save and Test Connection

Save

Close Without Saving

## Tuning FishEye

This page contains information about improving FishEye's performance.  
On this page:

- [Configurable Indexing Threads](#)
- [Java Heap Size](#)
- [Improve Browse Performance](#)
- [Improving Initial Scan Performance](#)
- [Background Information](#)
- [General Improvements](#)
- [Improve Update Performance during Initial Scan](#)
- [Improving Initial Scan performance for an SVN Repository](#)
- [Performance Support](#)

### Configurable Indexing Threads

FishEye is now multi-threaded, allowing you to control the number of threads dedicated to the repository indexing process. See the page on [Configuring Indexing](#).

### Java Heap Size

The heap size of the FishEye Java Virtual Machine is controlled by the `FISHEYE_OPTS` environment variable. The best heap size to use is dependent on a number of factors including:

- The source code management (SCM) system being used. Subversion scanning typically uses more memory than CVS, for example.
- The complexity of operations in the repository. Processing changesets which affect many files will use more memory.
- The amount of physical RAM in the system. If the Java heap is too large, it may induce swapping which will impact performance.

FishEye will reserve a portion of the available heap for caching of database data. So in general, the more memory you can supply, the better.

For Subversion repositories, it is also possible to reduce FishEye's memory footprint by reducing the [BlockSize](#) parameter.

If you do run into 'Out of Memory' errors, see [Fix out of Memory Errors](#).

## Improve Browse Performance

For users with very large repositories, you may find the rendering of the Subversion tree slow. You can try disabling checking for empty folders by using the [disable-dirtree-empty-checks](#) option in your `FISHEYE_ARGS` environment variable.

## Improving Initial Scan Performance

This page contains information about improving the performance of FishEye repository scans.

### Background Information

When you add a repository, FishEye needs to perform a once-off scan through the repository to build up its initial index and cache. This scan can take some time. Until this scan is complete, you may find that some data is not displayed. As a guide, FishEye should be able to process about 100KB-200KB per second on an averaged-size PC. If FishEye is accessing the repository over the network (e.g. over a NFS mount), then you should expect the initial scan to take longer.

### General Improvements

You can increase the speed of your scans using the following options:

- If your repository is non-local, set up a local repository mirror on the FishEye server. This will provide a major speed boost for anyone scanning a repository across a network.
- [Exclude](#) unused file types, unused directories and specific large files from FishEye.

### Improve Update Performance during Initial Scan

One option is break large repositories into multiple smaller repositories. While this technique will not improve the overall initial scan time, it allows for all fully scanned repositories to be updated while the initial scan is still being performed on those remaining.

In FishEye 1.3.4 and later, the initial and incremental scans happen in separate, single threads. So, splitting the repositories will allow incremental scans to run concurrently alongside the initial scans. You may also wish to split projects into separate repositories, since permissions in FishEye are applied on a per-repository basis.

### Improving Initial Scan performance for an SVN Repository

The http/s protocol has the slowest performance during the initial scan. The svn protocol (`svn://`) is faster and the file protocol (`file:///`) is the fastest.

Therefore if you find your initial scan takes an extended amount of time (in some cases weeks), you should consider switching over from the http/s protocol to the svn or file protocol to define the location of your SVN repository. (Use [svnsync](#) to mirror the repository onto the fisheye server, so that you can access it with the file protocol.)

```
E.g. Switch from
https://example.com/svn/project/
to
svn://example.com/svn/project/
or
file:///home/user/some/location/svn/project
```

In order for SVN protocol to work you need to have set up an [svnserve based server](#).

### Performance Support

If you have implemented at least one of the suggestions above but are still experiencing slow performance, ask us for help:

1. First read the [Tuning Fisheye](#) document.
2. Turn on debug logging using the [command line debug flag](#).
3. Allow FishEye to continue its initial scan overnight.
4. Create a new [support request](#) in the FishEye project, including your server environment and log files with the problem description.

## Managing Plugins

A FishEye plugin is a program that provides an extra piece of FishEye functionality.

You can create your own plugins (see the [FishEye Development Hub](#)), then install them into your FishEye system as follows:

[To add a plugin,](#)

1. Copy the JAR file to the `/FISHEYE_INST/var/plugins/user` directory. You can see the absolute path name of this directory under the plugins list.
2. Access the **'Admin Menu'** and click **'Plugins'**.
3. The **'Plugins'** screen will be displayed (see screenshot below). Click the **'Check for new plugins in...'** link.
4. Your newly added plugin will now appear in the list on the **'Plugins'** screen.

#### To enable a plugin,

1. Click **'Plugins'** on the **'Admin Menu'**.
2. The **'Plugins'** screen will be displayed (see screenshot below).
3. Locate the plugin you wish to enable, and click the **'Enable'** link.
  - To view, enable or disable individual modules within a plugin, click the '+' sign at the left of the plugin's name.

#### To configure a plugin,

1. Click **'Plugins'** on the **'Admin Menu'**.
2. The **'Plugins'** screen will be displayed (see screenshot below).
3. Locate the plugin you wish to enable, and click the **'Configure'** link. This will show the configuration page for that plugin. If the plugin does not require configuration there will not be a **'Configure'** link.
4. Read the documentation for that particular plugin to understand the process of configuring the plugin.



Some plugins require further configuration after they are enabled.

#### Screenshot: Plugin Management Screen

Plugins					
Name	Description	State			
<input type="checkbox"/> File System SCM	An SCM provider for the local file system	Enabled	All modules enabled.	<a href="#">Disable</a>	<a href="#">Configure</a>
<input type="checkbox"/> Confluence SCM	An SCM provider for Confluence instances	Enabled	All modules enabled.	<a href="#">Disable</a>	<a href="#">Configure</a>
<a href="#">Check for new plugins in /opt/j2ee/domains/atlassian.com/eac-fisheye/data/var/plugins/user</a>					

## Customising the Welcome Message



This feature is not fully functional in FishEye 2.2 due to a [bug](#). To read more information about this, please see the [issue](#) in our public issue tracker.

To customise the welcome message, access the administration page, and click **'Customize Welcome & Support Message'** under **'Global Settings'** on the left navigation bar.

The **'Customize Welcome & Support Message'** page opens.

On this page, you can provide your own custom text for the FishEye welcome message that is displayed to users when they first log in. You can also provide custom Support text, providing the contact details of your own support organisation, which also appears on the opening page.

You can enter text into the boxes provided for either message and click the small **'Save Welcome Message'** or **'Save Support Message'** button to save it, or enter text for both messages and click **'Save All'**. The changes are made immediately.

#### Screenshot: FishEye Customize Welcome and Support Messages

**Admin Menu**

- Repository Settings**
  - Repository List
  - Repository Defaults
- Global Settings**
  - Server Settings
  - Security
  - Users
  - Groups
  - ViewCVS URL Mappings
  - Change Admin Password
  - Customize Crucible Defect Classifications
  - Projects
  - Permission Schemes
  - Trusted Applications
  - Customize Welcome and Support Message
- System**
  - Sys-Info/Support
  - Content
  - Backup
  - Plugins
  - Shutdown

**customize Welcome and Support Messages**

Here, you can provide your own custom text for the FishEye Welcome message that is displayed to users when they first log in.

You can also provide custom Support text, providing the contact details of your own support organisation, which also appears on the opening page.

*Note:* If left blank, the default support or welcome message will be used.

**Welcome Message**

**Support Message**

Save welcome message

Save support message

save all

### Restoring the default messages

To revert to the default Welcome or Support messages, simply delete the text shown in the text box and click the respective **'Save'** button.

### Manually editing the opening screen

You can also directly edit the XML file that contains the welcome and support messages. This file is called `config.xml`, located in your `/FISHEYE_HOME/` folder.

To do this, simply add the following XML tags to `config.xml`:

```
<content>
  <front-page-message>Example welcome message here</front-page-message>
  <support-message>Example support message here</support-message>
</content>
```

### Using HTML

The content in the welcome screen can be arranged using tables, images or HTML tags such as the following:

```
<a href="http://www.atlassian.com">Link to Atlassian Home Page</a>
```



## Backing Up and Restoring FishEye Data

FishEye data can be backed up from the admin interface or command line. This page contains the command syntax, options and the required procedure to backup and restore your FishEye instance.

On this page:


- [Backing Up FishEye Data](#)
  - [The FishEye Admin Interface Backup Process](#)
  - [The FishEye Command Line Backup Process](#)
  - [Components of a FishEye Backup](#)
  - [Backup Command Line Options](#)
    - [Command Line Examples](#)
    - [Advanced Backup Command Line Settings](#)
    - [Known Limitations](#)
  - [Scheduling FishEye Backups](#)
- [Restoring FishEye Data](#)
  - [The FishEye Data Command Line Restoration Process](#)
  - [Restore Command Line Options](#)
  - [Advanced Command Line Restore Settings](#)
    - [Notes on Migrating Backup Data](#)
    - [Command Line Example: Migrating Backup Data to MySQL Enterprise Server](#)

## Backing Up FishEye Data

### The FishEye Admin Interface Backup Process


1. Navigate to the FishEye **'Admin'** screen (click the **'Administration'** link in the footer of any FishEye page).
2. On the Admin screen, click **'Backup'** under the **'System'** heading in the left navigation bar. The Backup screen opens.
3. On the Backup screen, the **'File Path'** field indicates where the backup file (in .zip format) will be stored. You can manually edit this path to change it. Under the heading **'Include'**, a list of checkboxes is shown, with the following items:


- Plugins and their configuration data
- SQL database
- Web templates
- Uploaded files and local copies of files under review.
- Repository and application caches.

 Repository and application caches contain temporary data stored from repository scans and library caches that improve startup time. Both will be recreated automatically by re-scanning the source repositories, so the backup files can be reduced by a significant amount by excluding these (if the cost of re-scanning is acceptable).

4. Once you have chosen your options, click **'Create Backup Now'**.

Screenshot: The FishEye Backup Screen

Backup 

 FishEye and Crucible will be unavailable until the backup completes

Depending on the number of repositories and reviews, the backup may take a long time to complete and may require large amounts of disk space (especially when you are including the cache). Please make sure you have enough disk space before proceeding.

File Path:

Specify the absolute path on the server where FishEye and Crucible should export. For example "/opt/fisheyeandcrucible/backup.zip".

Include:

☐ repository and application caches
 ☒ plugins and their configuration data
 ☒ SQL database
 ☒ web templates
 ☒ uploaded files and local copies of files under review


Choose the components that FishEye and Crucible should include in the backup.

Create Backup Now


 or 

Manage Scheduled Backups

## The FishEye Command Line Backup Process


 Your FishEye instance must be running during the backup.

1. Open a command line interface on the FishEye server computer.
2. Navigate to the `FISHEYE_HOME/bin/` directory.
3. Run the backup command on the command line with the desired options.
4. The backup is created as a new Zip archive file and placed in the `FISHEYE_INST/backup/` directory.

 Note that if your FishEye instance uses a custom `FISHEYE_INST` directory, make sure the environment variable is properly set when running the backup command.

## Components of a FishEye Backup

The FishEye backup is highly configurable and allows for many different configurations. This table shows the various components of the backup, what they are for and how they can be used.

Component	Purpose	Defaults
SQL Database	Refers to the SQL content database (used by both FishEye and Crucible and containing all user profile data, reviews and their comments).	Backed up by default.
Cache	The cache contains data that reflects the state of FishEye's repositories. Without it, FishEye must re-scan its repositories after a backup is restored. The cache also contains OSGI library data that increases startup time. These too can be excluded and will be generated automatically when the application is started.	The cache is not backed up by default as it tends to be large (running a risk of pushing the maximum file size for Java backups), whilst also representing replaceable data.
Plugins	Plugins are 3rd-party extensions that you may have installed, and configuration for all plugins (this includes configuration for Crucible's set of standard plugins).	Configuration data for all plugins are backed up by default, as well as all plugins installed in <code>FISHEYE_INST/var/plugins/user</code> .
Templates	In this context, these are custom freemarker templates that you or your users have created. They live in <code>FISHEYE_INST/template</code> .	Templates are backed up by default. You can choose to exclude them from the backup if your templates directory is covered by some other backup mechanism.
Uploads	In this context, uploads refers to files which are added to Crucible via the web interface (such as patch file reviews). It also includes each repository-backed file that went under review, when Crucible is configured to <a href="#">make a local copy of every reviewed file</a> .	Uploads are backed up by default. You can choose not to back them up for example when the <code>FISHEYE_INST/var/data/uploads</code> directory is already covered by some other backup mechanism.  This item only applies when using Crucible with FishEye.

Note that the backup will always include the configuration data (`config.xml`), your license file and the FishEye user data.

## Backup Command Line Options

These examples are for use in a Linux-like operating system. When using these commands on Windows, use the filename `fisheyectl.bat` and use the correct slashes. Run the command from the `FISHEYE_HOME/bin/` directory.

The basic syntax of the backup command is as follows:

```
$ ./fisheyectl.sh backup [OPTIONS]
```

To see inline help for all backup options, run the following command in the `FISHEYE_HOME/bin/` directory:


```
$ ./fisheyectl.sh backup --help
```

|| Option || Switch || Description || Default setting ||

<b>Quiet mode</b>	-q OR --quiet	Suppresses output	No
<b>Output filename</b>	-f OR --file	Specify a different path and filename to the <code>FISHEYE_INST/backup/backup_YYYY-DD-MM_HHmm.zip</code> file. When filename is omitted, the backup filename contains the date and time.	<code>FISHEYE_INST/backup/</code> is the default directory.

<b>Compression level</b>	--compression OR -c	Sets the Zip compression level, from 1-9. Runs at level 6 if no argument is passed.	Yes (6)
<b>Anonymise</b>	-a OR --anonymise	Anonymises the SQL database by replacing all text with 'x'. This is only useful when sending a backup to Atlassian as part of a support case. <b>Please do not anonymise data unless the Support Engineer handling your support case has specifically requested the data anonymised (as often anonymised data will not help reproduce the issue).</b>	No
<b>Cache Backup</b>	--cache	Include the repository caching files in the backup. These hold information gained from scanning the repositories and can be quite large (many gigabytes). However, it can shorten the time needed to re-scan the repositories after data is restored.	No. By default, the cache data is excluded from backups.

## Command Line Examples

 These examples are for use in a Linux-like operating system. When using these commands on Windows, use the filename `fisheyectl.bat` and use the correct slashes. Run the command from the `FISHEYE_HOME/bin/` directory.

### Backing up with compression of 9, quiet mode and setting an output location

```
$ ./fisheyectl.sh backup --compression 9 -q -f /application_backups/fisheye/20090215.zip
```

### Backup including cache data (also includes all default components)


```
$ ./fisheyectl.sh backup --cache
```

### Restoring a backup with cache data (also restores all default components)

```
$ ./fisheyectl.sh restore --cache
```

## Advanced Backup Command Line Settings

In some cases it might be preferable to only backup a limited set of items. This could be useful when your instance uses an external database such as MySQL Enterprise Server or PostgreSQL and your DBA has already configured automatic backups in the database. The commands below allow this.

Option	Switch	Description	Default
<b>Exclude Plugins</b>	--no-plugins	Excludes plugins from the backup.	No. By default, plugins are included in every backup.
<b>Exclude Templates</b>	--no-templates	Excludes templates from the backup.	No. By default, templates are included in every backup.
<b>Exclude Uploads</b>	--no-uploads	Excludes uploaded files (such as patch reviews, stored in Crucible's internal database) from the backup.  This item only applies when using Crucible with FishEye.	No. By default, uploads are included in every backup.
<b>Exclude SQL Database</b>	--no-sql	Excludes the SQL content database used by both FishEye and Crucible.	No. By default, this data is included in every backup.
<b>Show help</b>	--help OR -h	Shows inline help on the command line.	No

## Known Limitations

Please note that the below limitations are common for any Java based backup tool.

### Archives Containing Over 65535 Files

Versions of Java earlier than v1.6 (b25) are incapable of handling zip files that contain more than 65,535 files. The solution for this problem is to either upgrade to a version of Java later than v1.6 (b25), or ensure that the archive does not exceed the threshold (contains less than 65,535 files). The FishEye cache (not included in backups by default) can be a contributor of many small files. Hence, exclude the cache from backups if this is likely to be a concern.

### Archives Larger Than 4GB

Java has trouble reading and writing zip files that are larger than 4GB. As of release 1.5 Java appears capable of reliably creating archives that are over 4GB, but remains unable to extract them. For details see [Sun's bug report](#). Also be aware of the fact that some file systems (including FAT32) have trouble with files larger than 4GB.

As a workaround, make sure you do not create archives that are larger than 4GB. The FishEye cache (not included in backups by default) can be a contributor of a lot of small files (although these tend to compress very well). If you still want to archive everything and end up with an archive that is too large, consider creating separate backups for the FishEye cache and uploaded files respectively.

## Scheduling FishEye Backups


To set a schedule for automatic backups, open the administration screen and click **'Backup'** under **'System'** on the left navigation bar. The 'Backup' page opens. Now, click the link **'Manage Scheduled Backups'** at the bottom of the page. The 'Scheduled Backups' page opens.


On the 'Scheduled Backups' page, click **'Edit'** to adjust the backup schedule. Set the desired options and click **'Save'**.

The options for scheduled backups are detailed in the table below.

Option name	Description	Allowed Values
<b>Disable Scheduled Backups</b>	Stops regular backups from taking place.	On (disabled) or Off (enabled)
<b>Backup path</b>	The path where the backup .zip file will be stored.	Any system or network path that FishEye or Crucible can access.
<b>Backup file prefix</b>	Characters that will be added to the beginning of the backup file name.	Any string of characters that can be used as part of a filename on the local operating system.
<b>Backup file date pattern</b>	Sets a date for the next (or initial) backup to take place.	Any valid date in the format <code>yyyy_MM_dd</code> (year, month, day of the month).
<b>Backup frequency</b>	Sets how often the backup will take place.	Can be set to <b>'every day'</b> , <b>'every Sunday'</b> , <b>'Monday to Friday'</b> and <b>'first day of the month'</b> .
<b>Backup time (HH:mm)</b>	The time when the backup will take place.	Any valid 24-hour time in the format <code>HH:mm</code> (hours, minutes).
<b>Include</b>	Specifies which items must be included in the backups (these components are explained at the top of this page).	As per the options for regular on-demand backup (These components are explained at the top of this page).

*Screenshot: Scheduling Backups in FishEye*

**Scheduled Backups** 

 Please choose the schedule for your backups carefully. FishEye and Crucible will be unavailable for the duration of the backup process.

☐ Disable scheduled backups  
Switch scheduled backups on and off.

**Backup path:**   
The location to store the backups.

**Backup file prefix:**   
The prefix for the generated backup file.

**Backup file date pattern:**   
The date/time format you specify will be added to the file prefix to differentiate between backup files.

**Backup frequency:**   
How often do you want FishEye and Crucible to run a backup.

**Backup Time (HH:mm):**   
What time would you like FishEye and Crucible to run the backup, e.g. 17:30.  
Note that this is 24 hour notation in local server time. Current local server time is: 00:11.

**Include:**

☐ repository and application caches  
☒ plugins and their configuration data  
☒ SQL database  
☒ web templates  
☒ uploaded files and local copies of files under review


Choose the components that FishEye and Crucible should include in the backups.


 Be aware that scheduled backups can fill up disks unless you regularly move or delete old archives.

## Restoring FishEye Data


### The FishEye Data Command Line Restoration Process

 There is currently no way to restore a backup from the web interface because FishEye must be shut down during a data restore.

 Restoring a backup will irreversibly overwrite the data of your installation with the data from the backup archive.

1. [Install FishEye](#) into a new, empty directory (this must be the same version that the backup was created from, or later).  
 Note that you cannot restore data into versions of FishEye which are older than the version that created the backup.
2. Make sure the FishEye instance is not running.
3. Open a command line interface on the FishEye server computer.
4. Run the restore command on the command line with the desired options.
5. The specified elements will be restored.
6. Start the FishEye instance.
7. When using FishEye integrated with Crucible, you will need to re-index your repositories after restoring data, unless the backup archive was created with the `--cache` option.

### Restore Command Line Options

 These examples are for use in a Linux-like operating system. When using these commands on Windows, use the filename `fisheyectl.bat` and use the correct slashes. Run the command from the `FISHEYE_HOME/bin/` directory.

The basic syntax of the restore command is as follows:

```
$ ./fisheyectl.sh restore -f /path/to/backup_2009-10-02_1138.zip [OPTIONS]
```

To see inline help for all backup options, run the following command in the `FISHEYE_HOME/bin/` directory:

```
$ ./fisheyectl.sh restore --help
```


Restores a FishEye/Crucible backup instance.

If you are using an external database (as opposed to the default built-in database), make sure the JDBC driver file is present in the `FISHEYE_INST/lib` directory when running restore.

Option	Switch	Description	Default
Suppress output	--quiet OR -q	Suppress the output messages from the restore program on the command line.	No
Choose file to restore from	--file PATH/FILENAME OR -f PATH/FILENAME	Restore the backup from PATH/FILENAME.	Yes (required)
Show inline help	--help OR -h	Displays help for options on the command line.	No

## Advanced Command Line Restore Settings

By default, the restore program will restore all items found in the backup archive (so if you included the caches using the `--cache` option, these will automatically be restored). However, it is possible to only restore a subset of items from the backup, by explicitly specifying the item names on the command line and only those will be restored.


Option	Switch	Description
Restore FishEye cache	--cache	Restore the repository cache backup.
Restore plugins	--plugins	Restore 3rd-party plugins and their configuration data.
Restore templates	--templates	Restore freemarker templates from the backup (the restored instance will use the built-in templates).
Restore uploads	--uploads	Restore uploads (e.g. patch files uploaded into Crucible and contents of files under review).  This item only applies when using Crucible with FishEye.
Restore Crucible reviews	--sql	Restore the SQL database containing user profiles, reviews and review comments.
Set database type	--dbtype OR -t	SQL database type ('mysql', 'postgresql' or 'built-in'). Only required when restoring to a database location different to that used at backup time.
Set JDBC URL	--jdbcurl OR -j	JDBC URL of the SQL database. Only required when restoring to a database location different to that used at backup time (not applicable for 'built-in').
Set JDBC username	--username OR -u	JDBC username of the SQL database. Only required when restoring to a database location different to that used at backup time (not applicable for 'built-in').
JDBC password	--password OR -p	JDBC password of the SQL database. Only required when restoring to a database location different to that used at backup time (not applicable for 'built-in').
JDBC class	--driver OR -d	Specifies the JDBC driver class name needed to access the SQL database. Only required when restoring to a database location different to that used at backup time and when using a different JDBC driver than the standard driver associated with the database specified though <code>--dbtype</code> . (Not applicable for 'built-in').

## Notes on Migrating Backup Data

When the process restores a SQL database, it looks at the configuration data (`config.xml`) included in the backup archive to learn which database product was used and how to connect to it. When FishEye uses the built-in HSQLDB database (which is the default), the restored instance will also use that.

However, when the restored instance will use a different database than the backed up instance (for instance, HSQLDB was used at the time the backup was created, but it needs to be restored on MySQL Enterprise Server), use the command line options to point the process to the new database.

## Command Line Example: Migrating Backup Data to MySQL Enterprise Server

 These examples are for use in a Linux-like operating system. When using these commands on Windows, use the filename `fisheyectl.bat` and use the correct slashes. Run the command from the `FISHEYE_HOME/bin/` directory.

**Restoring to a FishEye instance that uses a different database (ensure the MySQL Enterprise Server driver jar file is present in the `FISHEYE_INST/lib` directory)**

```
$ ./fisheyectl.sh restore \
--username john \
--password smith \
--jdbcurl jdbc:mysql://localhost:3306/crucible \
--dbtype mysql \
--file /path/to/backup_2009-10-02_1138.zip
```

## Enabling Access Logging in FishEye

Stop Fisheye/Crucible then create the file `FISHEYE_HOME/content/WEB-INF/jetty-web.xml` with the following content:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE Configure PUBLIC "-//Mort Bay Consulting//DTD Configure//EN"
"http://www.eclipse.org/jetty/configure.dtd">

<Configure class="org.mortbay.jetty.webapp.WebAppContext">
  <Call name="addHandler">
    <Arg>
      <New class="org.mortbay.jetty.handler.RequestLogHandler">
        <Set name="requestLog">
          <New id="RequestLogImpl" class="org.mortbay.jetty.NCSARequestLog">
            <Arg><SystemProperty name="jetty.logs" default="./var/log"/>/fisheye-access.log.yyyy_mm_dd</Arg>
            <Set name="retainDays">90</Set>
            <Set name="append">true</Set>
            <Set name="extended">false</Set>
            <Set name="LogTimeZone">GMT</Set>
          </New>
        </Set>
      </New>
    </Arg>
  </Call>
</Configure>
```

Restart Fisheye/Crucible and that will create an access log in `FISHEYE_HOME/var/log/fisheye-access.log.yyyy_mm_dd` format (e.g. `fisheye-access.log.2010_03_17`). If you want to change the path to you `FISHEYE_INST` directory, change the `default="./var/log"` to the path to the log folder in `FISHEYE_INST`.

The logs are written in [NCSA format](#):

```
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=TestRepo&outputtype=image HTTP/1.1" 200
256
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=npanday&outputtype=image HTTP/1.1" 200
177
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=jutils&outputtype=image HTTP/1.1" 200 775
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=P4&outputtype=image HTTP/1.1" 200 177
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=Rails&outputtype=image HTTP/1.1" 200 1311
172.20.5.186 - - [17/Mar/2010:22:50:22 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=FE-2363&outputtype=image HTTP/1.1" 200
128
```

Please refer to the [Jetty documentation](#) for more configuration options.

## FishEye Installation and Upgrade Guide

- [FishEye Release Notes](#)
  - [FishEye 2.5 Release Notes](#)

- [FishEye 2.5 Changelog](#)
    - [FishEye 2.5 Upgrade Guide](#)
  - [FishEye 2.4 Release Notes](#)
    - [FishEye 2.4 Changelog](#)
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    - [Copy of End of Support Announcements for FishEye](#)

## FishEye Release Notes



FishEye 2.5 has now been released. Read the [Release Notes](#).

### FishEye Release Notes and Changelogs

- [Security Advisories](#)
  - [FishEye Security Advisory 2010-10-20](#)
  - [FishEye Security Advisory 2010-06-16](#)
  - [FishEye Security Advisory 2010-05-04](#)
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- [FishEye 1.3 Release Notes](#)
  - [FishEye 1.3 Upgrade Guide](#)
  - [FishEye 1.3 Changelog](#)
- For changes prior to 1.3, see:
  - [1.2.x Changelog](#)
  - [1.1.x Changelog](#)
  - [1.0.x Changelog](#)

## Installation

You can now download FishEye from [here](#). Information on installing FishEye can be found [here](#).

If upgrading from a previous version, please follow the [Upgrade Guide](#).

## FishEye 2.5 Release Notes

**8 February 2011**

With great pleasure, Atlassian presents **FishEye 2.5**, providing vastly improved source code searching and DVCS authentication.

### Highlights of this Release:

- Search Revamp
- Redesigned Activity Stream
- Mercurial and Git Authentication
- RSS Improvements
- Improved Header
- 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 FishEye 2.5

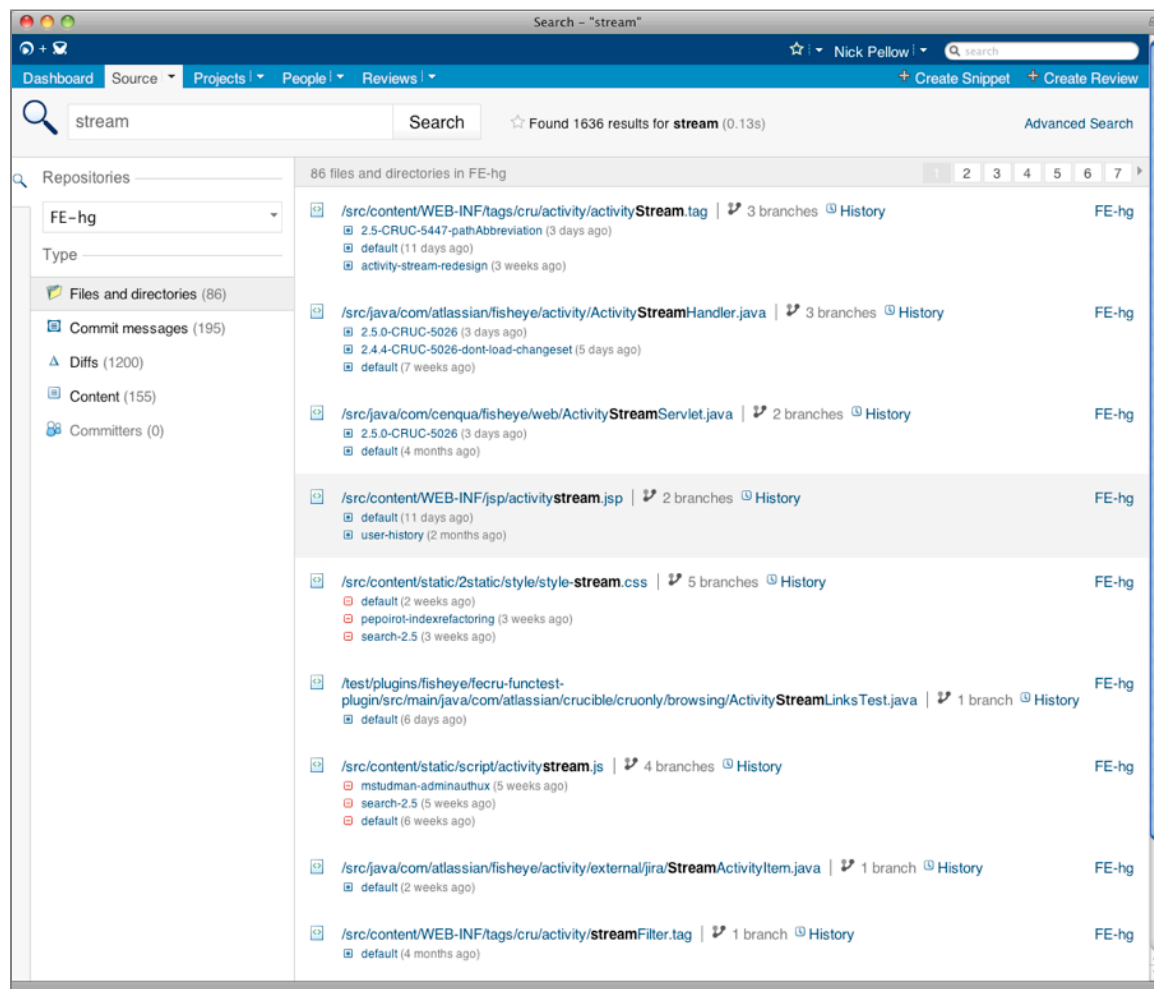
## 1

## Search Revamp

FishEye's Quick Search functionality has been redesigned from the ground up. Among the improvements:

- Faster search breaking out results by content type
- Improved layout for easier scanning
- Smarter search results with results prioritized to the top by modified time
- For each path, view the top three most recent branches with a modification of that file

Read more about Quick Search...



## 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
- Embedded images are thumbnailed

[Read more about the changelog...](#)

Activity
Reviews
Favourites

All
Commits
Reviews
Issues
Expand all
☐ Show My Activity


Tuesday 01 Feb


Brendan Humphreys
11:56 am

21747:4a0c36642896 changed 1 file default

CRUC-5544: relax PSQL UTF8 checking to allow 8.0 servers

+1 -1 /src/java/com/cenqua/crucible/hibernate/DBInfo.java


Pierre-Etienne Poirot
11:36 am

21746:e1a86353ee6d changed 0 files default

Merge

21745:3efd6fctf036 changed 3 files default CR-FE-4804
11:34 am

CRUC-5534: add ant glob support

+79 -0 /src/java/com/atlassian/fecru/search/common/lucene/AntGlobQuery.java

+7 -17 /src/java/com/atlassian/fecru/search/filepaths/FilePathSearcher.java History Source Diff

+190 -0 /test/plugins/fisheye/fecru-funcTest-plugin/.../com/atlassian/fisheye/funcTest/search/FilePathAntGlobFuncTest.java

3

## Mercurial and Git Authentication

We have added http(s) and ssh authentication for **Git** and **Mercurial** repositories, allowing you to more easily browse your private repositories hosted on popular sites such as [GitHub](#) and [BitBucket](#). FishEye now supports http authentication with passwords and ssh using public/private keypairs. You can let FishEye generate a pair and upload the public key to your hosting provider or upload a private key (passphraseless only) to FishEye if you prefer.

[Read more about Authentication...](#)

New Repository - Page 2 of 3

### Mercurial Connection Details

Repository Location:

### Mercurial Authentication

Authentication Style: Generate key pair for ssh

Generate a key pair, then upload the public key to your repository server. Note: SSH keys cannot be used for http(s) urls.

Private Key: Private key has been generated by FishEye

Public Key: `ssh-rsa  
AAAAB3NzaC1yc2EAAAADAQABAAQCOZf6OPjwI2jPxMt4ZRk6Y1IQDwXMfb7aIxCjfs0YYI  
Qw9vy08iB5VI/xBLBbqv7dvc00uJ8gLIODzPGXoBa8r6tCiCN4K2eG7tP5YNA8qpR2HyOMf27oD  
+JEMP2caYgFBwtNmVpVAJxrlaHn0hMjCFqJYU7+U5VKKeuThb0hCw==` ttt on FishEye at  
https://extranet.atlassian.com/crucible

Copy this public key to your repository server  
[Remove](#)

4

## RSS Improvements

FishEye 2.5 introduces some fine tuning for rendered RSS feeds. RSS content is easier to digest (better titles) and allows you to consume FishEye activity through your favourite RSS reader. We render wiki-markup in RSS which will allow you to click through links and view images inline.

FE-hg (search-2.5): NONE: rollback wildcardquery. added logging for upgrading metadata index including timing

FishEye on / 14/01/11 at 4:42 PM Nick Pellow

Nick Pellow committed [21205:3d1c9d521b9c](#) on branch [search-2.5](#) in [FE-hg](#)

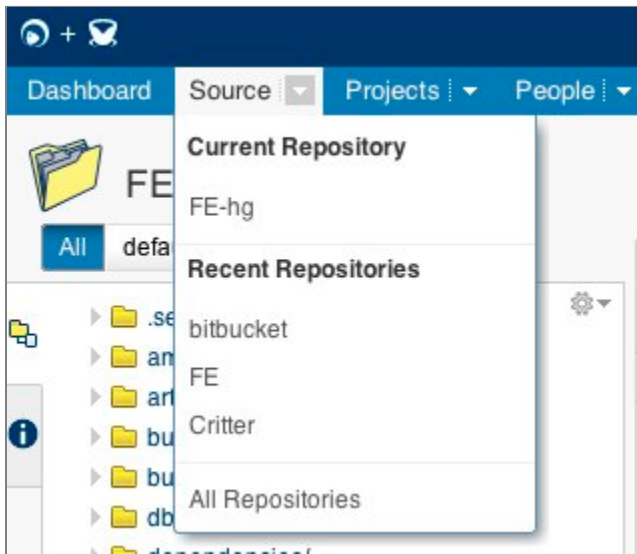
NONE: rollback wildcardquery. added logging for upgrading metadata index including timing

- [src/java/com/atlassian/fecru/gwt/admin/client/ui/repositories/AuthOptionsPresenter.java](#) (-1, +1) | [History](#) | [Source](#) | [Diff](#)
- [src/java/com/atlassian/fecru/search/filepaths/FilePathSearcher.java](#) (-7, +2) | [History](#) | [Source](#) | [Diff](#)
- [src/java/com/atlassian/fecru/search/filepaths/RecencyBooster.java](#) (-1, +8) | [History](#) | [Source](#) | [Diff](#)
- [src/java/com/atlassian/fisheye/dvcs/DvcsScanner.java](#) (-0, +3) | [History](#) | [Source](#) | [Diff](#)
- [src/java/com/atlassian/fisheye/search/Field.java](#) (-1, +1) | [History](#) | [Source](#) | [Diff](#)
- [src/java/com/cenqua/fisheye/lucene/LuceneIndexes.java](#) (-1, +1) | [History](#) | [Source](#) | [Diff](#)
- [src/java/com/cenqua/fisheye/rep/BaseRepositoryScanner.java](#) (-1, +4) | [History](#) | [Source](#) | [Diff](#)
- [src/java/com/cenqua/fisheye/rep/RepositoryScanner.java](#) (-0, +3) | [History](#) | [Source](#) | [Diff](#)

5

## Improved Header

FishEye 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 repositories, projects, users and reviews (if Crucible is installed) are available from the header drop down links as shown:



### And Even More Improvements


- The [Universal Plugin Manager](#)
- Complete branch selector support for Subversion repositories
- [Oracle support](#) when FishEye is teamed with Crucible

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

## Release Notices

### FishEye 2.5 Changelog

This page contains information about the FishEye 2.5 minor releases.

 Please read the [FishEye 2.5 Upgrade Guide](#) before upgrading to any of the minor releases below.







#### On this page:

- [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 2.5.2 to 2.5.3

##### 8 March 2011

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
















JIRA Issues (8 issues)									
Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-2998	clearcase base: use the latest repository activity when indexing branches	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]	↓	 Closed	Fixed	Mar 27, 2011	Mar 27, 2011
	FE-2987	UCM ClearCase: specifying a project inclusion rule and then saving the repository results in an invalid config.xml	Conor MacNeill [Atlassian]	Michael Heemskerk [Atlassian]	↑	 Closed	Fixed	Mar 21, 2011	Mar 24, 2011
	FE-2985	Typo: Sceduled Backups	Tim Pettersen [Atlassian]	Matt Doar (Consulting Toolsmiths)	↓	 Closed	Fixed	Mar 18, 2011	Mar 20, 2011

	FE-2981	HG indexing fails with "not found in manifest!" error	Matthew Watson [Atlassian]	Matthew Watson [Atlassian]		 Closed	Fixed	Mar 15, 2011	Mar 23, 2011
	FE-2974	UCM ClearCase: indexing error 'No such file or directory'	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Mar 08, 2011	Mar 11, 2011
	FE-2972	Go-To-Changeset doesn't work	Matthew Watson [Atlassian]	Erik van Zijst [Atlassian]		 Closed	Fixed	Mar 06, 2011	Mar 24, 2011
	FE-2966	Deadlock in Jetty connection timeout	Joe Xie [atlassian]	Gurleen Anand [Atlassian]		 Closed	Fixed	Feb 24, 2011	Mar 21, 2011
	FE-2954	LineDecorator.decorateLine(int) never call	Tom Davies [Atlassian]	Julien Hoarau		 Closed	Fixed	Feb 16, 2011	Mar 28, 2011

### From 2.5.1 to 2.5.2

**8 March 2011**

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






















JIRA Issues (5 issues)									
Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-2969	Error trying to connect to HG repo using ssh on windows	Geoff Crain [Atlassian]	Matthew Watson [Atlassian]		 Closed	Fixed	Mar 03, 2011	Mar 04, 2011
	FE-2964	ClearCase: FishEye doesn't handle versions that are deleted from a ClearCase VOB	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Feb 24, 2011	Mar 03, 2011
	FE-2960	ClearCase: cleartool error message is missed by FishEye and as a result indexing stops in error for known 'error' conditions	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Feb 22, 2011	Mar 03, 2011
	FE-2956	P4 Unicode Handling	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]		 Closed	Fixed	Feb 17, 2011	Mar 02, 2011
	FE-2948	java.lang.IllegalStateException - No match found exception thrown when the clearcase.processBranch command times out after 1 hour	Michael Heemskerk [Atlassian]	Gurleen Anand [Atlassian]		 Closed	Fixed	Feb 09, 2011	Mar 03, 2011

### From 2.5.0 to 2.5.1

**10 February 2011**

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

[illegible]

	CRUC-5594	Adding an AppLink to a "standalone Crucible" creates a FishEye configuration that is unusable.	Luis Miranda [Atlassian]	Brenden Bain [Atlassian]		 Closed	Fixed	Feb 04, 2011	Feb 13, 2011
	CRUC-5592	The reviews tab may not display after a JIRA server restart if the crucible projects require logged in users + trusted apps configured for authentication + no direct project mapping	Joe Xie [atlassian]	Brenden Bain [Atlassian]		 Closed	Fixed	Feb 03, 2011	Feb 13, 2011
	CRUC-5581	UAL webitem 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 instance being edited	Luis Miranda [Atlassian]	Joe Xie [atlassian]		 Closed	Fixed	Feb 02, 2011	Feb 13, 2011
	CRUC-5574	Update "refresh cache" links to synch form App Links as well.	Joe Xie [atlassian]	Mark Lassau [Atlassian]		 Closed	Fixed	Feb 02, 2011	Feb 15, 2011
	CRUC-5526	FishEyeInstance gets re-created on JIRA restart	Joe Xie [atlassian]	Luis Miranda [Atlassian]		 Closed	Fixed	Jan 30, 2011	Feb 13, 2011
	CRUC-5475	Create func tests for all search result pages	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]		 Closed	Fixed	Jan 21, 2011	Feb 20, 2011
	CRUC-5426	Add a link in admin UI to UAL admin screen	Joe Xie [atlassian]	Luis Miranda [Atlassian]		 Closed	Fixed	Jan 18, 2011	Feb 15, 2011
	CRUC-5400	On Plugin startup, synchronise App Links	Joe Xie [atlassian]	Mark Lassau [Atlassian]		 Closed	Fixed	Jan 17, 2011	Feb 13, 2011
	CRUC-5188	Update admin UI	Mark Lassau [Atlassian]	Joe Xie [atlassian]		 Closed	Fixed	Dec 13, 2010	Feb 13, 2011
	CRUC-5183	Extend oauth services to REST resources (such as gadgets)	Joe Xie [atlassian]	Joe Xie [atlassian]		 Closed	Fixed	Dec 13, 2010	Feb 13, 2011
	CRUC-5156	upgrade tasks to create Application Links for existing legacy links on plugin startup	Joe Xie [atlassian]	Joe Xie [atlassian]		 Closed	Fixed	Dec 12, 2010	Feb 13, 2011
	CRUC-5154	Add support for OAuth authentication	Joe Xie [atlassian]	Joe Xie [atlassian]		 Closed	Fixed	Dec 12, 2010	Feb 13, 2011

## FishEye 2.5 Upgrade Guide

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

### On this page:

- [Upgrade Notes](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the FishEye Upgrade](#)

### Upgrade Notes

- **FishEye 2.5:**
  - This release will trigger an automatic upgrade of the metadata index the first time FishEye is started. FishEye is still usable while this task runs in the background, however the 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?](#)
  - Some RSS readers may duplicate items when first fetching feeds after upgrading because RSS titles have changed.

### Upgrade Procedure





#### Before you begin

- Test your upgrades in your test environment before rolling into production.
- Back up your **entire** FishEye instance (see [Backing Up and Restoring FishEye Data](#)), i.e.
  - If you are backing up your FishEye instance via the Admin interface, tick all of the '**Include**' checkboxes (e.g. repository and application caches, plugins and their configuration data, SQL database, etc).
  - If you are backing up your FishEye instance using the command-line interface, do not use any [exclusion options](#).

If you are already running a version of FishEye, please follow these instructions on [FishEye Upgrade Guide](#).

### Checking for Known Issues and Troubleshooting the FishEye Upgrade

If something is not working correctly after you have completed the steps above to upgrade your FishEye installation, please check for known FishEye 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 FishEye after we have released the software. In such cases we publish information about the known issues in the FishEye Knowledge Base. Please check the [FishEye 2.5 Known Issues](#) in the FishEye Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the FishEye upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the FishEye 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

[FishEye 2.5 Release Notes](#)

## FishEye 2.4 Release Notes

**20 October 2010**

With great pleasure, Atlassian presents **FishEye 2.4**, now with even more improvements to make [browsing your source code](#) easier, especially for [Mercurial](#) and [Git](#) users.

#### Highlights of this Release:

- Branch and Tag Selector
- File History Redesigned
- Easier Application Linking
- SSL Support
- User Interface Improvements
- Performance Improvements
- And Even More Improvements

#### Responding to your Feedback:



Over **80** 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 FishEye 2.4

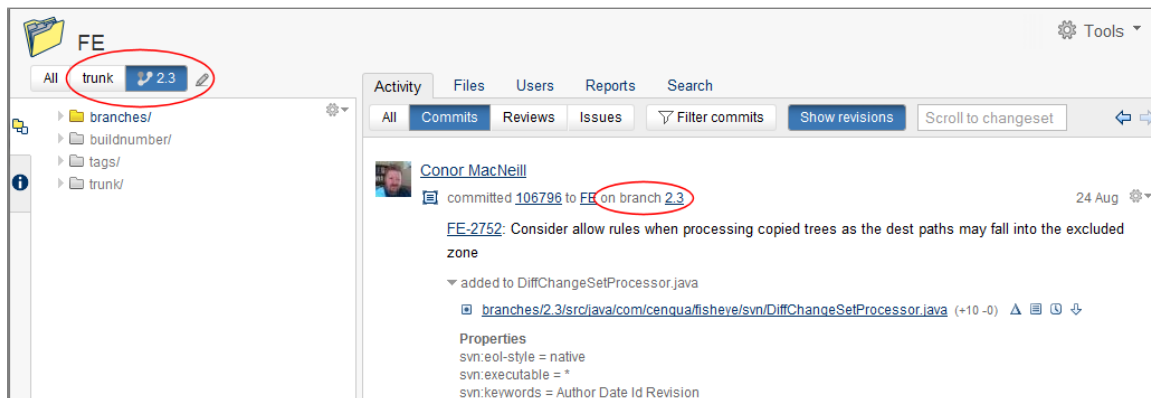


## 1

## Branch and Tag Selector

DVCS users will find it easier to work with their repositories using FishEye's new branch and tag selector. The branch and tag selector allows you to view information only related to a specific branch/tag when browsing your repositories. FishEye will attempt to detect the main branch, e.g. master on Git, default on Mercurial or MAIN on CVS, but you can also select any branch manually. The branch/tag is kept in context when navigating throughout the application, e.g. if you switch from viewing a repository to viewing the activity stream, only information related to the selected branch will be displayed.

*Note, this feature currently does not work for ClearCase repositories due to technical constraints.*

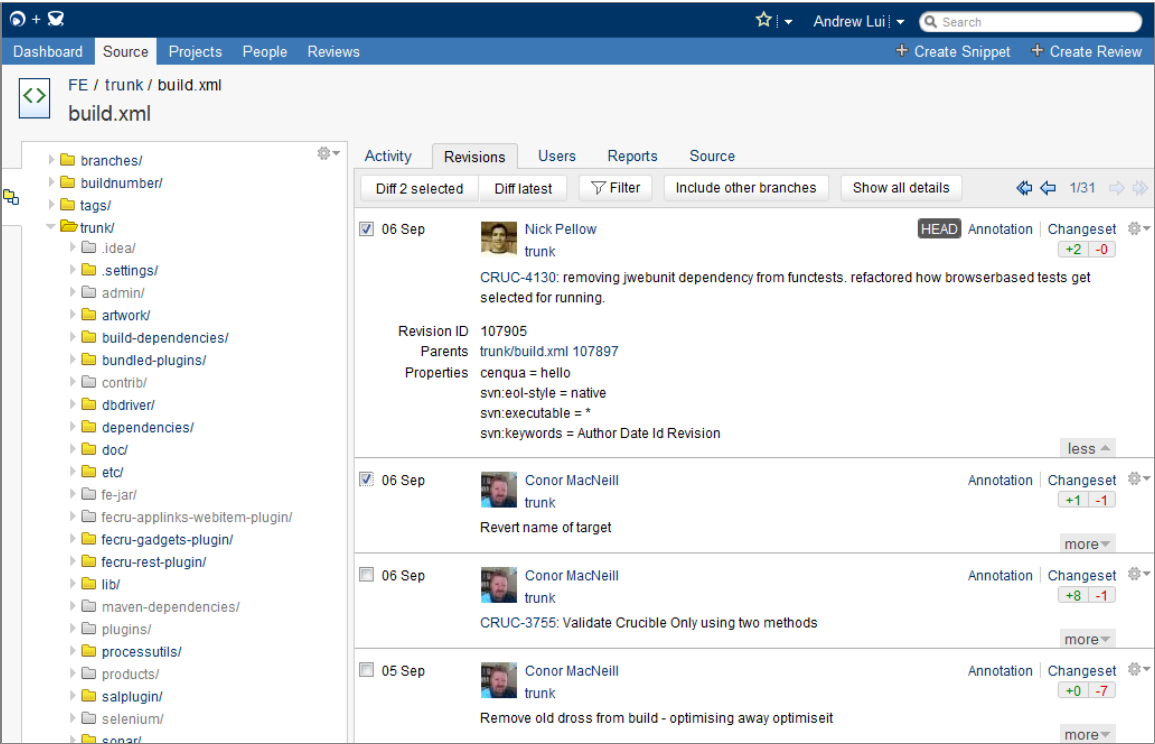


[More....](#)

## 2

## File History Redesigned

The file history display in FishEye has been redesigned to provide a cleaner and more intuitive interface. The neatly summarised list makes it easier for you to find the information you need, at a glance. You can also use the new filter to find the desired file revision, or expand file revisions to display additional information.



More....



Easier Application Linking

FishEye now includes a brand new version of the Application Links plugin. You can use this plugin to easily link your FishEye server to other applications, like a [JIRA](#) server or another FishEye server. You can choose between the Trusted Applications protocol, OAuth or basic HTTP authentication. Linking two applications allows you to share information and access one application's functions from within the other. For example, if you linked your FishEye instance with a JIRA server, you could view JIRA issues in your FishEye activity stream or view the changesets associated with an issue in JIRA.

Configure Application Links <span>?</span>						<span>+</span> Add Application Link
Name	Application	Application URL	Configured Authentication <span>?</span>	Primary	Actions	
STAC	JIRA	https://studio.atlassian.com	Basic Access		Configure   Delete   Make Primary   JIRA Settings	
jac	JIRA	http://jira.atlassian.com	OAuth Basic Access		Configure   Delete   JIRA Settings	

More....




SSL Support

By [popular request](#), this FishEye release provides full SSL support. You will now be able to configure SSL for your FishEye instance using a

self-signed or certificate-authority certificate.

## Server Settings

**Edit Web Settings** 

**Http Configuration**

**Web context:**

**HTTP Bind Address:**

**Ssl Configuration**

**SSL Bind Address:**

**SSL Keystore File:**

**Keystore Password:**

**Keystore Password Confirm:**

**SSL Truststore File:**

**Truststore Password:**

**Truststore Password Confirm:**

**Common Configuration**

**Proxy scheme:**


**Proxy host:**

**Proxy port:**

**Ajp13 Bind Address:**

**Allow remote API calls:** ☒ On ☐ Off

**Timezone:** 

Australia/Sydney
 

**Site URL:**

*Note: changes to these settings requires a restart to take effect.*

[More....](#)



### User Interface Improvements

We're continuing our ongoing work to improve the FishEye user interface. This release includes a brand new repository administration console and a redesigned header. We've also improved the toolbars on a number of screens including the dashboard, as well as replaced dropdowns throughout the application with autocomplete controls.

## Repositories

Native (17) Plugins (5)

FishEye and Crucible natively supports Subversion, CVS, ClearCase, Perforce, Git and Mercurial repositories 🟢

Name	Type	Description	Location	State	Last Update	
AGMP	Subversion	a good marketing ploy	<a href="https://studio.atlassian.com/svn/AGMP">https://studio.atlassian.com/svn/AGMP</a>	Disabled		⚙️
applinks	Subversion		<a href="https://studio.atlassian.com/svn/APL">https://studio.atlassian.com/svn/APL</a>	Disabled		⚙️
atlassian	Subversion		<a href="https://svn.atlassian.com/svn/public/atlassian">https://svn.atlassian.com/svn/public/atlassian</a>	Running	40 seconds ago	⚙️
BM	Subversion	Build Monitor	<a href="https://labs.atlassian.com/svn/BM">https://labs.atlassian.com/svn/BM</a>	Running	47 seconds ago	⚙️
CLOV	Subversion	Clover	<a href="https://studio.atlassian.com/svn/CLOV">https://studio.atlassian.com/svn/CLOV</a>	Running	19 seconds ago	⚙️
contrib	Subversion		<a href="https://svn.atlassian.com/svn/public/contrib">https://svn.atlassian.com/svn/public/contrib</a>	Disabled		⚙️
Critter	Git	Crucible Command Line Client	<a href="git://github.com/sebr/critter.git/">git://github.com/sebr/critter.git/</a>	Running	16 seconds ago	⚙️
FE	Subversion	FishEye	<a href="https://studio.atlassian.com/svn/FE">https://studio.atlassian.com/svn/FE</a>	Running	13 seconds ago	⚙️
FE-hg	Mercurial	FE from hgsubversion conversion	<a href="/opt/hg-bb-clone/fe/">/opt/hg-bb-clone/fe/</a>	Running	46 seconds ago	⚙️
FE-hg-bb	Mercurial	FE indexed from a clone of the bitbucket hosted repo	<a href="/home/mwatson/fe/">/home/mwatson/fe/</a>	Disabled		⚙️
FEP	Subversion	JIRA FishEye Plugin	<a href="https://studio.plugins.atlassian.com/svn/FISH">https://studio.plugins.atlassian.com/svn/FISH</a>	Running	28 seconds ago	⚙️

Add...



6

### Performance Improvements

This FishEye release includes a number of performance improvements. We've been tinkering under the hood to improve page rendering. Viewing file annotations will be significantly faster, once you have loaded the relevant page, as we have implemented progressive rendering for the annotations. Pagination controls have also been added to the bottom of long pages, like the activity stream.

Activity
Revisions
Users
Reports
Source

All
Commits
Reviews
Issues
Filter commits
Show revisions
Scroll to changeset

[Tim Pettersen](#)

- summarized and closed [CR-FE-3698](#) 27 Sep
- No summary.
- summarized and closed [CR-FE-3683](#) 27 Sep
- No summary.

7

### 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

- **Security advisory.** This release fixes a security flaw. Please refer to the [security advisory](#) for details of the security vulnerability, risk assessment and mitigation strategies.
- **Upgrading from a previous version of FishEye.** Upgrading FishEye should be fairly straightforward. *We strongly recommend that you back up FishEye before upgrading.* Please refer to the [FishEye 2.4 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.

## FishEye 2.4 Changelog

This page contains information about the FishEye 2.4 minor releases.



Please read the [FishEye 2.4 Upgrade Guide](#) before upgrading to any of the minor releases below.

### On this page:

- [From 2.4.4 to 2.4.5](#)
- [From 2.4.3 to 2.4.4](#)
- [From 2.4.2 to 2.4.3](#)
- [From 2.4.1 to 2.4.2](#)
- [From 2.4.0 to 2.4.1](#)

### From 2.4.4 to 2.4.5

#### 3 February 2011

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

JIRA Issues (5 issues)									
Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5392	Improve notification DB query performance	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↓	Closed	Fixed	Jan 14, 2011	Feb 01, 2011
	CRUC-5362	Check UCM root dirs against include rules to avoid needless lshistory calls	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↑	Closed	Fixed	Jan 11, 2011	Feb 01, 2011
	CRUC-5359	REST API CreateReview issues	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]	↓	Closed	Fixed	Jan 11, 2011	Feb 01, 2011
	CRUC-5317	Can't Create Reviews via REST API using JSON	Conor MacNeill [Atlassian]	Dylan Hansen [Atlassian]	↑	Closed	Fixed	Jan 05, 2011	Feb 01, 2011
	CRUC-3958	ClearCase: symbolic links cause errors during indexing	Michael Heemskerk [Atlassian]	Ross Rowe [Atlassian]	↑	Closed	Fixed	Apr 07, 2010	Feb 02, 2011

### From 2.4.3 to 2.4.4


































































#### 11 January 2011







































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

The release includes fixes for a number of security issues. Please see the [Security Advisory](#) for more information.



This release includes a number fixes of issues related to **git** support. FishEye users with git repositories should consider a full re-index of their repositories if they have previously experienced any problems. Contact Atlassian Support via <http://support.atlassian.com> if any problems persist.

JIRA Issues (36 issues)									
Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	FE-1883	Option to disable the people tab for security reasons	Unassigned	Ryan Chee [Atlassian]		 Closed	Fixed	Jul 03, 2009	Mar 03, 2011
	CRUC-5312	XSS vulnerability in FishEye/Crucible Code Macro	Unassigned	Andrew Lui [Atlassian]		 Closed	Fixed	Jan 05, 2011	Jan 11, 2011
	CRUC-5310	XSS vulnerability in FishEye Repository Configuration	Unassigned	Andrew Lui [Atlassian]		 Closed	Fixed	Jan 04, 2011	Jan 11, 2011
	CRUC-5307	XSS vulnerability in Crucible's Linked JIRA Issue	Unassigned	Andrew Lui [Atlassian]		 Closed	Fixed	Jan 04, 2011	Jan 11, 2011
	CRUC-5295	ClearCase: indexing stops when a branch is defined but never used in a VOB.	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Jan 03, 2011	Jan 06, 2011
	CRUC-5255	clearcase performance of Isactivity is bad	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]		 Closed	Fixed	Dec 20, 2010	Jan 31, 2011
	CRUC-5254	Add repository name to log messages created during indexing.	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Dec 20, 2010	Dec 23, 2010
	CRUC-5252	UserLoggedInCondition does not work for plugins	Michael Studman [Atlassian]	Michael Studman [Atlassian]		 Closed	Fixed	Dec 20, 2010	Jan 11, 2011
	CRUC-5246	activity stream shows duplicate commits in cvs when commits are aggregated.	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]		 Closed	Fixed	Dec 19, 2010	Jan 11, 2011
	CRUC-5244	clearcase indexing doesnt clear its changes cache in the right spot	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]		 Closed	Fixed	Dec 19, 2010	Jan 09, 2011
	CRUC-5216	problems with permissions	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]		 Closed	Fixed	Dec 15, 2010	Jan 06, 2011
	CRUC-5162	Rescan commit comments in Perforce repositories updates no working	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Dec 12, 2010	Jan 06, 2011
	CRUC-5134	JavaScript errors when loading admin repository tables with hundreds of repositories	Michael Studman [Atlassian]	Michael Studman [Atlassian]		 Closed	Fixed	Dec 09, 2010	Dec 14, 2010
	CRUC-5131	When using git, iterating over the manifest (for tags or branch heads) is too slow	Michael Heemskerk [Atlassian]	Anna Buttfield [Atlassian]		 Closed	Fixed	Dec 08, 2010	Jan 06, 2011
	CRUC-5114	Disable HTTP chunking when sending SOAP requests to JIRA	Jason Hinch [Atlassian]	Pierre-Etienne Poirot [Atlassian]		 Closed	Fixed	Dec 01, 2010	Dec 12, 2010
	CRUC-5105	Copy and rename detection for Git repositories is broken	Jason Hinch [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Nov 30, 2010	Dec 12, 2010
	CRUC-5069	Login screen messaging broken	Craig Sharkie [Atlassian]	Brendan Humphreys [Atlassian]		 Closed	Fixed	Nov 29, 2010	Feb 06, 2011
	CRUC-5065	Git indexing errors (parents not found, stack overflows)	Michael Heemskerk [Atlassian]	Anna Buttfield [Atlassian]		 Closed	Fixed	Nov 29, 2010	Jan 06, 2011
	CRUC-5060	Fisheye Incompatible with Git 1.7.3 on Windows	Jason Hinch [Atlassian]	Dylan Hansen [Atlassian]		 Closed	Fixed	Nov 29, 2010	Dec 12, 2010
	CRUC-5009	Help links in admin are failing	Tom Davies [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Nov 24, 2010	Jan 06, 2011
	CRUC-4993	Git - error when switch directories	Jason Hinch [Atlassian]	Adam Ahmed [Atlassian]		 Closed	Fixed	Nov 21, 2010	Dec 12, 2010
	CRUC-4951	changeset view: when a file has a really long name/path the options	Craig Sharkie	Brydie McCoy		 Closed	Fixed	Nov 15,	Dec 13,














		overflow covering content	[Atlassian]	[Atlassian]		Closed		2010	2010
	CRUC-4915	Repositories created with . in the name cannot be loaded in Admin Console	Michael Studman [Atlassian]	Dylan Hansen [Atlassian]			Fixed	Nov 12, 2010	Dec 22, 2010
	CRUC-4904	Trusted apps jira integration docs are missing paths critical to sub-task creation	Unassigned	Anna Lyons [Atlassian]			Fixed	Nov 11, 2010	Nov 30, 2010
	CRUC-4900	IE8 deleted files aren't greyed out on the filetree	Craig Sharkie [Atlassian]	Tim Pettersen [Atlassian]			Fixed	Nov 11, 2010	Dec 13, 2010
	CRUC-4894	font shiftiness on eyeql results	Craig Sharkie [Atlassian]	Tim Pettersen [Atlassian]			Fixed	Nov 10, 2010	Dec 13, 2010
	CRUC-4891	ie8 - black waiting screen with spinner off to the side before creating a review	Craig Sharkie [Atlassian]	Tim Pettersen [Atlassian]			Fixed	Nov 10, 2010	Dec 13, 2010
	CRUC-4871	Can't click on stars or permalinks on review page in IE8	Craig Sharkie [Atlassian]	Tim Pettersen [Atlassian]			Fixed	Nov 10, 2010	Dec 13, 2010
	CRUC-4865	Loading spinner does not disappear on Binary Files	Jason Hinch [Atlassian]	Nick Pellow [Atlassian]			Fixed	Nov 10, 2010	Dec 12, 2010
	CRUC-4784	ClearCase: checkins of different users may be grouped into the same changeset	Unassigned	Michael Heemskerk [Atlassian]			Fixed	Nov 03, 2010	Jan 04, 2011
	CRUC-4713	GWT Admin: Some styling touchups needed on filterable/pageable repository lists	Michael Studman [Atlassian]	Michael Studman [Atlassian]			Fixed	Oct 28, 2010	Feb 22, 2011
	CRUC-4573	ClearCase: ancestor relations are not created for CC file revisions	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]			Fixed	Oct 14, 2010	Dec 21, 2010
	CRUC-4462	Authors/moderators should be able to complete reviews	Jason Hinch [Atlassian]	Michael Heemskerk [Atlassian]			Fixed	Oct 05, 2010	Dec 12, 2010
	CRUC-4396	Base ClearCase: File revisions from excluded branches are not picked up when merged to an included branch	Michael Heemskerk [Atlassian]	Joe Xie [atlassian]			Fixed	Sep 16, 2010	Jan 06, 2011
	CRUC-4376	Improve the Git documentation	Andrew Lui [Atlassian]	Andrew Lui [Atlassian]			Fixed	Sep 22, 2010	Oct 28, 2010
	CRUC-4086	ClearCase UCM activity support is brittle (detection of modified activities etc.)	Unassigned	Michael Heemskerk [Atlassian]			Fixed	Aug 27, 2010	Feb 03, 2011

#### From 2.4.2 to 2.4.3

























































#### 26 November 2010

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

#### JIRA Issues (23 issues)

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5309	XSS vulnerability in Crucible Review Reload	Unassigned	Andrew Lui [Atlassian]			Fixed	Jan 04, 2011	Jan 1 2011
	CRUC-5008	File history review links are misstyled	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]			Fixed	Nov 24, 2010	Nov 2 2010
	CRUC-5003	Crucible and FishEye dashboard pages have missing or partial ghost features	Craig Sharkie [Atlassian]	Craig Sharkie [Atlassian]			Fixed	Nov 23, 2010	Nov 2 2010
	CRUC-4998	ChangesetTooltipAction.findChangeSet() eagerly creates cruRevisions	Seb Ruiz [Atlassian]	Brendan Humphreys [Atlassian]			Fixed	Nov 22, 2010	Nov 2 2010
		Map .json files to javascript syntax	Seb Ruiz	Seb Ruiz				Nov 22,	Nov 2






	CRUC-4996	highlighting	[Atlassian]	[Atlassian]		Closed	Fixed	2010	2010
	CRUC-4991	Manifest implementation has large memory footprint	Anna Buttfield [Atlassian]	Anna Buttfield [Atlassian]		 Closed	Fixed	Nov 21, 2010	Nov 2, 2010
	CRUC-4987	Git Indexing Issues	Conor MacNeill [Atlassian]	Conor MacNeill [Atlassian]		 Closed	Fixed	Nov 18, 2010	Nov 2, 2010
	CRUC-4985	Cannot Change Password in User Settings	Tom Davies [Atlassian]	Dylan Hansen [Atlassian]		 Closed	Fixed	Nov 18, 2010	Dec 1, 2010
	CRUC-4983	"You do not have permission to see all the search results." for custom search filter in Crucible	Unassigned	Gurleen Anand [Atlassian]		 Closed	Fixed	Nov 18, 2010	Nov 1, 2010
	CRUC-4982	Review splitter dragging highlights text	Craig Sharkie [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Nov 18, 2010	Nov 2, 2010
	CRUC-4972	"Inconsistent state while finding the revision for file" with Git repositories	Michael Heemskerk [Atlassian]	Dylan Hansen [Atlassian]		 Closed	Fixed	Nov 17, 2010	Dec 1, 2010
	CRUC-4928	ClassCastException in ParameterSetInsertion.checkAuthors due to concurrent map modification	Anna Buttfield [Atlassian]	Anna Buttfield [Atlassian]		 Closed	Fixed	Nov 14, 2010	Nov 2, 2010
	CRUC-4912	NullPointerException when Checking the Author for the BaseLineCount	Anna Buttfield [Atlassian]	Chai Ying Chan [Atlassian]		 Closed	Fixed	Nov 12, 2010	Jan 0, 2011
	CRUC-4906	Diffs link gone from watch emails	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Nov 11, 2010	Nov 1, 2010
	CRUC-4879	you are not prompted for a repo rescan after removing an excludes pattern	Joe Xie [atlassian]	Tim Pettersen [Atlassian]		 Closed	Fixed	Nov 10, 2010	Nov 1, 2010
	CRUC-4872	Rescan repo after adding an exclude fails	Tom Davies [Atlassian]	Tim Pettersen [Atlassian]		 Closed	Fixed	Nov 10, 2010	Dec 1, 2010
	CRUC-4846	The way Fisheye handles newlines when parsing command line outputs is completely wrong	Jason Hinch [Atlassian]	Jason Hinch [Atlassian]		 Closed	Fixed	Nov 08, 2010	Jan 0, 2011
	CRUC-4842	Return the ability to add "favourites"	Tom Davies [Atlassian]	Tim Buntel [Atlassian]		 Closed	Fixed	Nov 08, 2010	Nov 2, 2010
	CRUC-4576	Review titles not truncated properly	Unassigned	Seb Ruiz [Atlassian]		 Closed	Fixed	Oct 14, 2010	Jan 0, 2011
	CRUC-4575	Review titles not truncated properly	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Oct 14, 2010	Nov 2, 2010
	CRUC-4488	When the QuickSearch fails, the spinner remains active and there is no failure indication to the user	Pierre-Etienne Poirot [Atlassian]	Pierre-Etienne Poirot [Atlassian]		 Closed	Fixed	Oct 11, 2010	Jan 0, 2011
	CRUC-4231	Not setting a review due date results in an unfriendly message	Tom Davies [Atlassian]	Conor MacNeill [Atlassian]		 Closed	Fixed	Sep 15, 2010	Nov 1, 2010
	CRUC-4175	JspTagException is thrown when navigating annotated view	Unassigned	Ming Giet Chong [Atlassian]		 Closed	Fixed	Sep 01, 2010	Nov 2, 2010
































































#### From 2.4.1 to 2.4.2
































































#### 11 November 2010





























































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

JIRA Issues (63 issues)									
Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5313	XSS vulnerability in FishEye/Crucible Changeset Page Heading	Unassigned	Andrew Lui [Atlassian]		 Closed	Fixed	Jan 05, 2011	Jan 11, 2011



	CRUC-5311	XSS vulnerability in FishEye Charts	Unassigned	Andrew Lui [Atlassian]		 Closed	Fixed	Jan 04, 2011	Jan 11 2011
	CRUC-5308	XSS vulnerability in Crucible's Email Reviews	Unassigned	Andrew Lui [Atlassian]		 Closed	Fixed	Jan 04, 2011	Jan 11 2011
	CRUC-4858	FishEye dialogue sends user to URL escaped URL	Michael Heemskerk [Atlassian]	James Roper [Atlassian]		 Closed	Fixed	Sep 12, 2010	Nov 10 2010
	CRUC-4857	Watch email contains broken link when there is no context path	Michael Heemskerk [Atlassian]	Andrew Myers [Atlassian]		 Closed	Fixed	Jul 14, 2010	Nov 10 2010
	CRUC-4856	Sections of the code are unreadable in side-by-side diff in IE7	Adam Ahmed [Atlassian]	Penny Wyatt [Atlassian]		 Closed	Fixed	Jun 28, 2010	Nov 10 2010
	CRUC-4850	Upgrade to JIRA Blockers 1.6.9	Tim Pettersen [Atlassian]	Tim Pettersen [Atlassian]		 Closed	Fixed	Nov 09, 2010	Nov 09 2010
	CRUC-4845	Map xslt files for xml syntax highlighting	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Nov 08, 2010	Nov 08 2010
	CRUC-4829	Javascript error occurs when clicking a folder when you have never selected a branch in the branch filter	Geoff Crain [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Nov 05, 2010	Nov 10 2010
	CRUC-4799	Too many objects are kept in memory during changeset indexing, resulting in an OutOfMemoryException	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Nov 04, 2010	Nov 10 2010
	CRUC-4774	plain text rendering of wiki text in the activity stream for changeset comments is wrong	Tom Davies [Atlassian]	Joe Xie [atlassian]		 Closed	Fixed	Nov 02, 2010	Nov 10 2010
	CRUC-4742	Excludes cause indexing to fail for Git repositories	Unassigned	Dylan Hansen [Atlassian]		 Closed	Fixed	Nov 01, 2010	Nov 10 2010
	CRUC-4716	PermaID field is empty in REST JSON responses	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]		 Closed	Fixed	Oct 29, 2010	Nov 09 2010
	CRUC-4710	addGeneralComment fails when called outside a HTTP request. e.g. a plugin commit listener	Joe Xie [atlassian]	Nick Pellow [Atlassian]		 Closed	Fixed	Oct 27, 2010	Nov 10 2010
	CRUC-4700	Activity tab for all repositories is gone in 2.4	Seb Ruiz [Atlassian]	Andrew Myers [Atlassian]		 Closed	Fixed	Oct 27, 2010	Nov 10 2010
	CRUC-4699	svn does not fully support the branch selector	Geoff Crain [Atlassian]	Geoff Crain [Atlassian]		 Closed	Fixed	Oct 26, 2010	Nov 10 2010
	CRUC-4698	ClearCase indexing misses revisions or indexes revisions multiple times if the server clocks of the ClearCase server and the FishEye servers are out of synch or in different timezones	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Oct 26, 2010	Nov 10 2010
	CRUC-4693	Snippet Page: Join Review issues	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]		 Closed	Fixed	Oct 26, 2010	Nov 10 2010
	CRUC-4692	Reviewers dropdown in Crucible Reviews spins forever in IE8 - cannot add reviewers	Adam Ahmed [Atlassian]	David Hergert [PAETEC]		 Closed	Fixed	Oct 26, 2010	Nov 09 2010
	CRUC-4691	PropertyNotFoundException when Priting Snippet	Michael Heemskerk [Atlassian]	Chai Ying Chan [Atlassian]		 Closed	Fixed	Oct 26, 2010	Nov 10 2010
	CRUC-4690	No Description for Repository LDAP Settings	Seb Ruiz [Atlassian]	Chai Ying Chan [Atlassian]		 Closed	Fixed	Oct 26, 2010	Nov 09 2010
	CRUC-4681	Show the branch a changeset was committed to in watch emails	Seb Ruiz [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Oct 25, 2010	Nov 10 2010





























































	CRUC-4679	ClearCase: 'Add' and 'Test Connection' buttons in admin don't do anything when both 'VOB To Include' and 'Include Pattern' and/or 'Exclude Pattern' is specified	Pierre-Etienne Poirot [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Oct 25, 2010	Nov 11, 2010
	CRUC-4675	ClearCase: nothing is indexed when branch excludes is non-empty and branch includes is empty	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Oct 25, 2010	Nov 08, 2010
	CRUC-4671	Path segments in Include/Exclude cannot be parsed in 2.4.0	Nick Pellow [Atlassian]	Dylan Hansen [Atlassian]		 Closed	Fixed	Oct 24, 2010	Nov 11, 2010
	CRUC-4668	ClearCase: project exclude rules aren't being stored	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Oct 24, 2010	Nov 11, 2010
	CRUC-4667	ClearCase: specifying include or exclude rules for projects and vobs results in an invalid config.xml file, causing errors on restart	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Oct 24, 2010	Nov 11, 2010
	CRUC-4663	ClearCase: performance of incremental indexing has decreased in 2.4.0 (Base CC only)	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Oct 21, 2010	Nov 11, 2010
	CRUC-4659	ClearCaseRepositoryCache.getChangeSet throws IllegalStateException when the changeset does not exist. The cache for other SCM types don't	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Oct 21, 2010	Nov 11, 2010
	CRUC-4657	"IllegalStateException: Indexer is stopped" on 2.4 Upgrade	Seb Ruiz [Atlassian]	Dylan Hansen [Atlassian]		 Closed	Fixed	Oct 21, 2010	Nov 11, 2010
	CRUC-4656	"Edit Details", "Summarize" and "Tools" menu missing under "Reviews" tab in Opera in 2.4	Craig Sharkie [Atlassian]	Gurleen Anand [Atlassian]		 Closed	Fixed	Oct 21, 2010	Nov 08, 2010
	CRUC-4646	Quick file links in activity stream disappear if browser isn't wide enough	Craig Sharkie [Atlassian]	Nicolas Venegas [Atlassian]		 Closed	Fixed	Oct 20, 2010	Nov 11, 2010
	CRUC-4636	Make more of GWT admin deep linkable	Michael Studman [Atlassian]	Michael Studman [Atlassian]		 Closed	Fixed	Oct 19, 2010	Nov 11, 2010
	CRUC-4635	Better linking in GWT Admin	Michael Studman [Atlassian]	Michael Studman [Atlassian]		 Closed	Fixed	Oct 19, 2010	Nov 11, 2010
	CRUC-4623	Git: Use of file content-hash to map to file revision is insufficient	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Oct 18, 2010	Nov 11, 2010
	CRUC-4614	Annotation links from file history don't preserve wayback spec	Tom Davies [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Oct 18, 2010	Nov 11, 2010
	CRUC-4613	Links to comments in the same review don't work	Tom Davies [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Oct 18, 2010	Nov 11, 2010
	CRUC-4612	infinite redirects to login via dialog iframes	Tom Davies [Atlassian]	Geoff Crain [Atlassian]		 Closed	Fixed	Jun 20, 2010	Nov 11, 2010
	CRUC-4604	Search results data sorting incorrect	Pierre-Etienne Poirot [Atlassian]	Tim Buntel [Atlassian]		 Closed	Fixed	Oct 15, 2010	Nov 11, 2010
	CRUC-4597	Clear filter button goes to changeset	Tom Davies [Atlassian]	Chris Lam [Atlassian]		 Closed	Fixed	Oct 15, 2010	Nov 21, 2010
	CRUC-4585	Crucible Inbox: Summarize state review with incomplete reviewers shows in no filter	Tom Davies [Atlassian]	Matthew Watson [Atlassian]		 Closed	Fixed	Oct 14, 2010	Nov 21, 2010
	CRUC-4580	Change the logging level of valid 'error' messages	Michael Heemskerk [Atlassian]	Ross Rowe [Atlassian]		 Closed	Fixed	Jun 02, 2010	Nov 11, 2010
	CRUC-4568	Committer name bolds when you mouseover it somewhere else	Craig Sharkie [Atlassian]	Chris Lam [Atlassian]		 Closed	Fixed	Oct 13, 2010	Nov 11, 2010

	CRUC-4547	Join Review is duplicated	Craig Sharkie [Atlassian]	Seb Ruiz [Atlassian]			Closed	Fixed	Oct 12, 2010	Nov 01, 2010
	CRUC-4541	Sometimes can't edit objectives	Adam Ahmed [Atlassian]	Seb Ruiz [Atlassian]			Closed	Fixed	Oct 12, 2010	Nov 21, 2010
	CRUC-4529	Wiki links are broken	Pierre-Etienne Poirot [Atlassian]	Seb Ruiz [Atlassian]			Closed	Fixed	Oct 12, 2010	Nov 01, 2010
	CRUC-4527	[Admin] No 'test connection' button when creating repo	Michael Studman [Atlassian]	Seb Ruiz [Atlassian]			Closed	Fixed	Oct 12, 2010	Nov 21, 2010
	CRUC-4523	[IE] More ie issues	Craig Sharkie [Atlassian]	Jason Hinch [Atlassian]			Closed	Fixed	Oct 12, 2010	Nov 11, 2010
	CRUC-4491	[Admin] Repo list needs pagination and filtering	Michael Studman [Atlassian]	Seb Ruiz [Atlassian]			Closed	Fixed	Oct 11, 2010	Nov 11, 2010
	CRUC-4450	ClearCase: CPU usage has increased significantly between 2.3.6 and 2.4-M6	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]			Closed	Fixed	Oct 04, 2010	Nov 11, 2010
	CRUC-4449	ClearCase: error in storing repository configuration after creating new repo	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]			Closed	Fixed	Oct 04, 2010	Oct 31, 2010
	CRUC-4415	GWT admin for ClearCase is slow because cleartool commands are being executed too often and too early	Michael Studman [Atlassian]	Michael Heemskerk [Atlassian]			Closed	Fixed	Sep 27, 2010	Nov 11, 2010
	CRUC-4411	Reload of admin page causes CPU max out	Unassigned	Michael Heemskerk [Atlassian]			Closed	Fixed	Sep 27, 2010	Nov 21, 2010
	CRUC-4390	Can't view projects in FishEye only mode	Michael Heemskerk [Atlassian]	Andrew Myers [Atlassian]			Closed	Fixed	Aug 09, 2010	Nov 01, 2010
	CRUC-4363	Changeset header UI annoyances	Jason Hinch [Atlassian]	Seb Ruiz [Atlassian]			Closed	Fixed	Sep 22, 2010	Jan 01, 2011
	CRUC-4350	ClearCase: FE maxes out CPU when the connection to the ClearCase server is lost	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]			Closed	Fixed	Sep 21, 2010	Nov 11, 2010
	CRUC-4347	Set min height on body of snippet page	Adam Ahmed [Atlassian]	Jason Hinch [Atlassian]			Closed	Fixed	Sep 21, 2010	Nov 01, 2010
	CRUC-4241	selecting a tag on reports page won't work	Tom Davies [Atlassian]	Geoff Crain [Atlassian]			Closed	Fixed	Sep 16, 2010	Nov 11, 2010
	CRUC-4132	ClearCase interactive process logs timeout and forgets it has failed	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]			Closed	Fixed	Aug 30, 2010	Nov 11, 2010
	CRUC-4131	Links in new admin ui are not real links	Michael Studman [Atlassian]	Anna Butfield [Atlassian]			Closed	Fixed	Aug 30, 2010	Nov 11, 2010
	CRUC-4081	[Stars] Stars in dropdowns are broken	Tom Davies [Atlassian]	Seb Ruiz [Atlassian]			Closed	Fixed	Aug 26, 2010	Nov 11, 2010
	CRUC-4047	[IE] Problems on Snippet Page	Adam Ahmed [Atlassian]	Anna Lyons [Atlassian]			Closed	Fixed	Aug 22, 2010	Nov 01, 2010
	CRUC-3673	Make the rename user functionality more visible	Pierre-Etienne Poirot [Atlassian]	Andrew Myers [Atlassian]			Closed	Fixed	Jun 23, 2010	Nov 01, 2010

From 2.4.0 to 2.4.1

27 October 2010

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

JIRA Issues (20 issues)									
Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated
	CRUC-5312	XSS vulnerability in FishEye/Crucible Code Macro	Unassigned	Andrew Lui [Atlassian]		 Closed	Fixed	Jan 05, 2011	Jan 11, 2011
	CRUC-5310	XSS vulnerability in FishEye Repository Configuration	Unassigned	Andrew Lui [Atlassian]		 Closed	Fixed	Jan 04, 2011	Jan 11, 2011
	CRUC-5307	XSS vulnerability in Crucible's Linked JIRA Issue	Unassigned	Andrew Lui [Atlassian]		 Closed	Fixed	Jan 04, 2011	Jan 11, 2011
	CRUC-4696	NullPointerException on p4 describe	Conor MacNeill [Atlassian]	Dylan Hansen [Atlassian]		 Closed	Fixed	Oct 26, 2010	Oct 26, 2010
	CRUC-4695	Perforce patch reviews throw errors in 2.4.0	Conor MacNeill [Atlassian]	Dylan Hansen [Atlassian]		 Closed	Fixed	Oct 26, 2010	Oct 26, 2010
	CRUC-4674	Permlid element can not be serialized to JSON for REST requests	Nick Pellow [Atlassian]	Nick Pellow [Atlassian]		 Closed	Fixed	Oct 25, 2010	Nov 15, 2010
	CRUC-4673	fix api breakage from 2.3.x to 2.4.0	Joe Xie [atlassian]	Joe Xie [atlassian]		 Closed	Fixed	Oct 24, 2010	Jan 05, 2011
	CRUC-4661	Perforce case-sensitivity issues on FE 2.4 Upgrade	Conor MacNeill [Atlassian]	Dylan Hansen [Atlassian]		 Closed	Fixed	Oct 21, 2010	Nov 15, 2010
	CRUC-4653	Perforce branch specification doesn't work	Matthew Watson [Atlassian]	Ian J. Einman		 Closed	Fixed	Nov 19, 2008	Oct 31, 2010
	CRUC-4652	NullPointerException when indexing perforce repositories on upgrade to 2.4	Anna Butfield [Atlassian]	Matthew Watson [Atlassian]		 Closed	Fixed	Oct 21, 2010	Nov 15, 2010
	CRUC-4651	NullPointerException in SvnCache.getFileRevision	Michael Heemskerk [Atlassian]	Michael Heemskerk [Atlassian]		 Closed	Fixed	Oct 21, 2010	Nov 15, 2010
	CRUC-4650	Invocation of git blame fails for files that contain spaces	Conor MacNeill [Atlassian]	Stefan Reuter		 Closed	Fixed	Oct 20, 2010	Oct 26, 2010
	CRUC-4649	Whenever viewing the users tab, if the user has an email address for their login name, Crucible errors out	Jason Hinch [Atlassian]	Dylan Hansen [Atlassian]		 Closed	Fixed	Oct 20, 2010	Nov 15, 2010
	CRUC-4648	Nasty error message when trying to start repo	Andrew Myers [Atlassian]	Andrew Myers [Atlassian]		 Closed	Fixed	Oct 20, 2010	Jan 05, 2011
	CRUC-4626	NPE when scanning git repo trying to read commit date:	Conor MacNeill [Atlassian]	Andrew Myers [Atlassian]		 Closed	Fixed	Aug 31, 2010	Nov 15, 2010
	CRUC-4616	SVN branch selector enabled with ajax loaded directories	Tom Davies [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Oct 18, 2010	Nov 15, 2010
	CRUC-4598	Testing a Connection in the Edit Repo Dialog, doesn't use the values from the form	Pierre-Etienne Poirot [Atlassian]	Nick Pellow [Atlassian]		 Closed	Fixed	Oct 15, 2010	Nov 15, 2010
	CRUC-4591	[IE7] - Horizontal Scrollbar on File History page	Adam Ahmed [Atlassian]	Adam Ahmed [Atlassian]		 Closed	Fixed	Oct 14, 2010	Jan 05, 2011
	CRUC-4538	Changeset link changes server url	Tom Davies [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Oct 12, 2010	Jan 05, 2011
	CRUC-4534	Changeset hover of CVS broken	Tom Davies [Atlassian]	Seb Ruiz [Atlassian]		 Closed	Fixed	Oct 12, 2010	Jan 05, 2011

## FishEye 2.4 Upgrade Guide

Below are some important notes on upgrading to **FishEye 2.4**. For details of the new features and improvements in this release, please read the [FishEye 2.4 Release Notes](#).

**On this page:**

- [Upgrade Notes](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the FishEye Upgrade](#)

### **Upgrade Notes**

- **FishEye 2.4:**
  - If you are using a **Mercurial** or **Git** repository with FishEye, it will be **automatically re-indexed** when you upgrade to FishEye 2.4. This is because we have upgraded the database schema for these SCMs.
  - Lines of code data will not display for Git and Mercurial repositories in this release. This affects features like [charts](#). Please see this FAQ for more information: [Cannot View Lines of Code Information in FishEye](#).
- **FishEye 2.4.1:**
  - If you use FishEye/Crucible with **Perforce** and previously upgraded to FishEye/Crucible 2.4.0, you must reindex all of your Perforce repositories after upgrading to FishEye/Crucible 2.4.1. Note, FishEye/Crucible will not automatically reindex your Perforce repositories, you will need to start the reindex manually.
- **FishEye 2.4.2:**
  - If you are using a **ClearCase** repository with FishEye, it will be **automatically re-indexed** when you upgrade to FishEye 2.4.2. This is because we have upgraded the database schema for this SCM.

### **Upgrade Procedure**



**Upgrade a test environment first**

As always, please test your upgrades in your test environment before rolling into production.

If you are already running a version of FishEye, please follow these instructions on [FishEye Upgrade Guide](#).

### **Checking for Known Issues and Troubleshooting the FishEye Upgrade**

If something is not working correctly after you have completed the steps above to upgrade your FishEye installation, please check for known FishEye 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 FishEye after we have released the software. In such cases we publish information about the known issues in the FishEye Knowledge Base. Please check the [FishEye 2.4 Known Issues](#) in the FishEye Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the FishEye upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the FishEye 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

[FishEye 2.4 Release Notes](#)

## **FishEye 2.3 Release Notes**

26 May 2010



For details on minor releases since FishEye 2.3, see the [FishEye Changelog](#).

### **Atlassian presents FishEye 2.3**

**FishEye 2.3** brings support for Mercurial, the distributed version control system. It also delivers a brand-new installation wizard, for seamless initial setup.

#### **Highlights of this release:**



- Mercurial SCM Alpha
- New 'Aggregate' functions in EyeQL query language
- Revamped Installation Process
- Numerous improvements and bug fixes

Thank you for your interest in FishEye 2.3.



See the documentation on [Upgrading to this version](#).

### Installing FishEye 2.3

Download FishEye 2.3 now. See the documentation on [Upgrading to this version](#).

## Highlights of FishEye 2.3



### Mercurial SCM Alpha

FishEye 2.3 adds alpha support for Mercurial repositories. Atlassian is providing early access to this functionality for our customers. There are still a few kinks to be worked out, but it provides full access to FishEye.

*Screenshot: A Mercurial Repository in Action*

A screenshot of the FishEye web interface. The top navigation bar includes 'Dashboard', 'Source', 'Projects', 'People', and 'Reviews'. The 'Source' tab is active, showing a Mercurial repository named 'mercurial' with the file 'commands.py' selected. On the left is a file tree view. The main area displays a list of revisions for 'commands.py'. The table has columns for 'Diff', 'Revision', 'Date', 'Message', 'Lines', and 'Author'.

Diff	Revision	Date	Message	Lines	Author
	10835:6e876718d0cf	05 Apr	commands: leftover from d7b601f1e02c	-1	
	10834:4ab459a6c25c	05 Apr	commands: small refactoring in summary	+5 -8	
	10833:d7b601f1e02c	05 Apr	commands: retrieve tags from context object	+1 -2	
	10832:420bc8124904	05 Apr	summary: make use of output labeling The individual	+22 -9	
	10830:824310023e4a	05 Apr	commands: fix typo	+1 -1	
	10818:d14d45fae927	03 Apr	diff: make use of output labeling	+7 -5	
	10817:2096496b40ec	03 Apr	status: make use of output labeling	+7 -3	
	10816:635d601e8f21	03 Apr	grep: make use of output labeling	+10 -2	
	10654:153dd9139b0e	12 Mar	any is not available for python2.4	+1 -1	
	10651:5f091fc1bab7	12 Mar	style: use consistent variable names (*mod) with	+3 -3	
	10650:9ea7238ad935	12 Mar	archive: autodetect archive type by extension	+22 -4	
	10649:e13797685ee6	12 Mar	merge with stable	+16 -16	
	10644:63948e7d37f7	11 Mar	server: initialize wsgi app in command, then wrap	+10 -6	
	10635:27027bee318e	11 Mar	serve: fix port config	+6 -1	
	10632:54fb6e1fafa6	11 Mar	drop (default: 8000), non-zero default is automatically	+1 -1	

See the documentation for more details.

2

New 'Aggregate' functions in EyeQL query language

EyeQL, FishEye's sophisticated query language has become much more powerful with the addition of new aggregating functions. These allow you to quickly gather statistics such as counts, maximums, minimums and averages across the following:

- Lines added or removed,
- Authors,
- Changesets,
- Tags,
- Reviews (and more).

Screenshot: New EyeQL Functions

DashboardSourceProjectsPeopleReviews

Mercurial > mercurial

Search Criteria

Enter your EyeQL query: (EyeQL Help)

```
select revisions
where date >=
2010-01-31T13:00:00.00Z
and on branch default

group by changeset

return csid,
count(revisions),
sum(linesAdded),
sum(linesRemoved)
```

mercurial

FilesActivityUsersReportsQuery

Link to this searchDownload results as CSV

Row	Changeset ID	count(Revision)	sum(Lines Added)	sum(Lines Removed)
1	10299:e768941f14c1	1	5	5
2	10302:00099580ca35	1	1	1
3	10313:31141fd7c9cc	1	1	1
4	10316:d117089386e2	1	3	2
5	10320:808c187fc556	1	1	1
6	10322:d9a2bc2f776b	2	4	3
7	10324:55d134ef8ab7	1	1	1
8	10325:bc72e21f9dc8	1	12	7

These data points can be calculated across your whole query result, or grouped by changeset, file or directory. When you're browsing the results, you can click in the results area to see the relevant group contents on an item.

Screenshot: FishEye Group Contents Dialog

FilesActivityUsersReportsQuery

Link to this searchDownload results as CSV

Displaying changesets 1 - 30 of 152: 123456▶

Row	Changeset ID	Date	count(Revision)	sum(Lines Added)	sum(Lines Removed)	max(Total Lines)
1	10299:e768941f14c1	01 Feb	1	5	5	360
2	changeset e768941f14c1b0fdb428023c58ca06bd9c9da30c					
3				1	1	253
4				3	2	3728
5	10320:808c187fc556	06 Feb	1	1	1	2169
6	10322:d9a2bc2f776b	06 Feb	2	4	3	2170

Go to: Group Contents

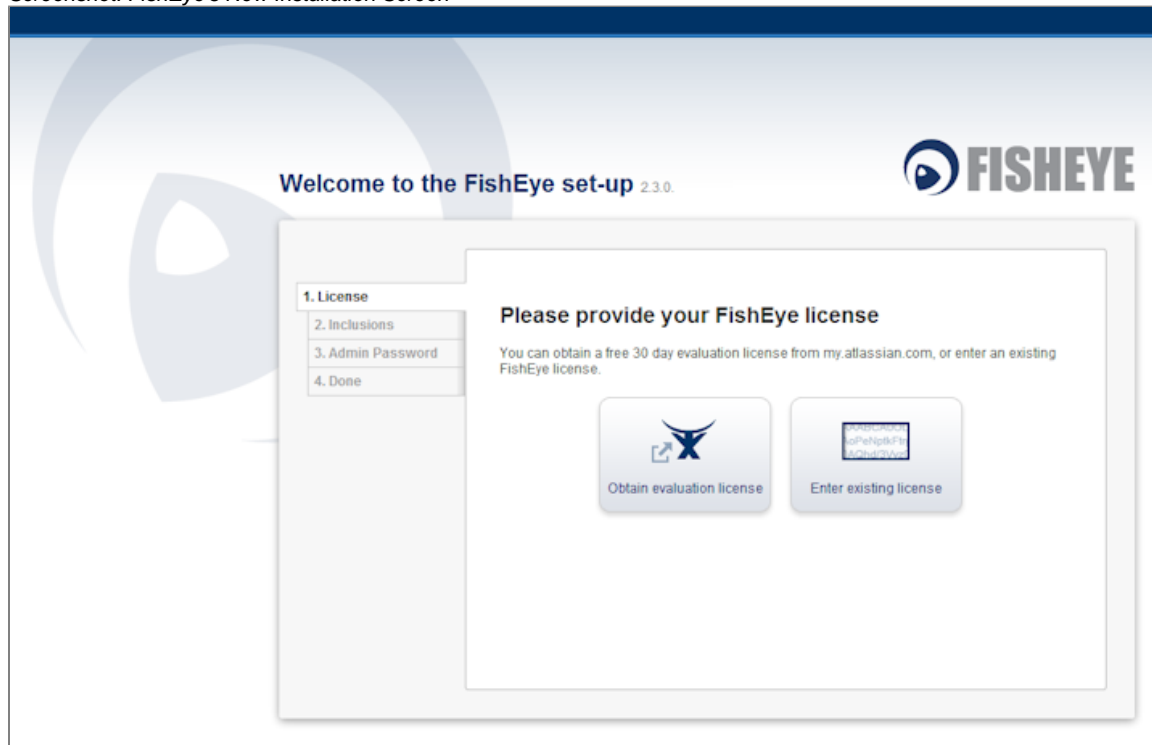
See the [EyeQL documentation](#) for more information.

3

Revamped Installation Process

FishEye's installation process has been given a thorough revision and a visual facelift. It's now smoother, faster and provides a better experience.

Screenshot: FishEye's New Installation Screen



See the [documentation](#) for more details.



## Numerous improvements and bug fixes

Visit our [issue tracker](#) to see the full list of improvements and bug fixes.

## FishEye 2.3 Changelog

This page contains information about the FishEye 2.3 minor releases.



Please read the [FishEye 2.3 Upgrade Guide](#) before upgrading to any of the minor releases below.

### On this page:

- [From 2.3.7 to 2.3.8](#)
- [From 2.3.6 to 2.3.7](#)
- [From 2.3.5 to 2.3.6](#)
- [From 2.3.4 to 2.3.5](#)
- [From 2.3.3 to 2.3.4](#)
- [From 2.3.2 to 2.3.3](#)
- [From 2.3.1 to 2.3.2](#)
- [From 2.3.0 to 2.3.1](#)

### From 2.3.7 to 2.3.8







#### 12 January 2011

This is a bug fix release that only addresses security issues. Please see the [Security Advisory](#) for more information.

The complete list of issues follows below.

#### JIRA Issues (3 issues)



Key	Summary	Priority	Status
CRUC-5313	XSS vulnerability in FishEye/Crucible Changeset Page Heading		 Closed
CRUC-5312	XSS vulnerability in FishEye/Crucible Code Macro		 Closed
CRUC-5311	XSS vulnerability in FishEye Charts		 Closed

From 2.3.6 to 2.3.7

















20 October 2010

This is a bug fix release that only addresses security issues. Please see the [Security Advisory](#) for more information.

From 2.3.5 to 2.3.6

25 August 2010











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

JIRA Issues (8 issues)			
Key	Summary	Priority	Status
CRUC-3857	ClearCase autcreate view broken if view already exists (in a different location)		 Closed
CRUC-3825	Check P4TICKETS environment variable when testing p4 connection, and on p4 login failure		 Closed
CRUC-3952	Test Repository option for ClearCase repositories needs to do more thorough checks		 Closed
FE-2719	Clearcase: use -stgloc -auto for creating views.		 Closed
CRUC-3854	restore will happily "restore" any zip file, regardless of content		 Closed
FE-2733	Error while indexing a performe repository		 Closed
FE-2530	Provide ability for users to specify the config spec to be used for the auto created views		 Closed
FE-2543	FishEye fails to process changes for a dynamic view		 Closed

From 2.3.4 to 2.3.5

26 July 2010





















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

JIRA Issues (5 issues)			
Key	Summary	Priority	Status
FE-2708	XML/HTML/PDF Docs are not available for FishEye/Crucible 2.3		 Closed
FE-2691	Git scanning fails with "Repository index failed due to error - class java.lang.IllegalStateException: Failed to parse specs correctly"		 Closed
CRUC-3730	FishEye - ClearCase incorrectly detects a dynamic view as snapshot view when FE is not started with current view set to dynamic view		 Closed
CRUC-3752	ClearCase FishEye indexer is re-indexing changes it has already indexed.		 Closed
CRUC-3782	HG: Error getting content for a file stops entire indexing process.		 Closed

From 2.3.3 to 2.3.4

**13 July 2010**


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

<b>JIRA Issues (10 issues)</b>			
<b>Key</b>	<b>Summary</b>	<b>Priority</b>	<b>Status</b>
FE-2640	SAL API packages not properly exported		 Closed
FE-2673	Clearcase Indexing can fail to progress in incremental indexing after initial index completed		 Closed
FE-2676	Search results preview dropdown not showing up		 Closed
FE-2649	Merge studio crowd classloader fix from 1.6.x		 Closed
CRUC-1220	Support a url parameter to specify the REST return format		 Closed
FE-2317	Update changeset-mail-*.ftl files		 Closed
CRUC-3093	incorrect line count changes		 Closed
CRUC-3667	Atlassian returning empty RSS feeds		 Closed
CRUC-3641	Error when sending changeset notifications to users with a batch-email preference		 Closed
CRUC-3675	Lucene indexer fails on null values		 Closed

**From 2.3.2 to 2.3.3****16th June 2010**













This is a bug fix release that addresses security issues. Please see the [Security Advisory](#) for more information.

The complete list of issues follows below.

<b>JIRA Issues (1 issues)</b>			
<b>Key</b>	<b>Summary</b>	<b>Priority</b>	<b>Status</b>
FE-2633	use safe parameter interceptor		 Closed















**From 2.3.1 to 2.3.2****3rd June 2010**

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

<b>JIRA Issues (6 issues)</b>			
<b>Key</b>	<b>Summary</b>	<b>Priority</b>	<b>Status</b>
FE-2612	Sys-Info page does not show all the LDAP settings correctly		 Closed
FE-2610	Rest login method is ambiguous for CAPTCHA		 Closed
FE-2608	within a repo, a quicksearch spins forever (NPE on server)		 Closed
FE-2607	Fisheye 2.3.x is missing ability to rescan revisions		 Closed
FE-2592	UCM Activity/Project information should be cached to stop FishEye re-requesting the same information		 Closed
FE-2380	SASL support with bundled svnkit		 Closed

**From 2.3.0 to 2.3.1****27th May 2010**

This is a bug fix release, addressing an issue that occurs when upgrading FishEye with an expired license.

<b>JIRA Issues (7 issues)</b>			
<b>Key</b>	<b>Summary</b>	<b>Priority</b>	<b>Status</b>
FE-2613	Document Clearcase branch inclusion/exclusion rules		 Closed
FE-2605	Startup is broken for upgrades with licenses that have expired maintenance.		 Closed
FE-2597	FishEye continually reindexes Base ClearCase changesets made at the same time by different users		 Closed
FE-2595	Allow users to include/exclude specific UCM Streams from indexing		 Closed
FE-2573	Duplicate comments shown for UCM Projects when 'Integration Streams Only' set to false		 Closed
FE-2570	FishEye currently does not index version '0'		 Closed
FE-1766	In annotated file view, line-level links to other revisions go to wrong line		 Closed

**FishEye 2.3 Upgrade Guide**

Below are some important notes on upgrading to **FishEye 2.3**. For details of the new features and improvements in this release, please read the [FishEye 2.3 Release Notes](#) and [FishEye 2.3 Changelog](#).

**On this page:**

- [Upgrade Notes](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the FishEye Upgrade](#)

**Upgrade Notes**

- If you use FishEye with ClearCase and you upgrade to FishEye/Crucible 2.3.4 or later from a version prior to 2.3.4, FishEye/Crucible will reindex all ClearCase repositories.

**Upgrade Procedure****Upgrade a test environment first**

As always, please test your upgrades in your test environment before rolling into production.

If you are already running a version of FishEye, please follow these instructions on [FishEye Upgrade Guide](#).

**Checking for Known Issues and Troubleshooting the FishEye Upgrade**

If something is not working correctly after you have completed the steps above to upgrade your FishEye installation, please check for known FishEye 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 FishEye after we have released the software. In such cases we publish information about the known issues in the FishEye Knowledge Base. Please check the [FishEye 2.3 Known Issues](#) in the FishEye Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the FishEye upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the FishEye 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

[FishEye 2.3 Release Notes](#)  
[FishEye 2.3 Changelog](#)

## FishEye 2.2 Release Notes



FishEye 2.5 has now been released. Read the [Release Notes](#).

18 February 2010



For details on minor releases since FishEye 2.2, see the [FishEye Changelog](#).

### Atlassian presents FishEye 2.2

**FishEye 2.2** is focused on improved user experience, adding a powerful side-by-side diff visualisation, along with improved quick-navigation, quick-search and performance enhancements.

#### Highlights of this release:

- [Enhanced Side-by-Side Diff View Mode](#)
- [Improved Quick Navigation](#)
- [Annotation Context Menu](#)
- [Code Copying](#)
- [ClearCase and Git Support Now Final](#)
- Numerous improvements and bug fixes

Thank you for your interest in FishEye 2.2.



See the documentation on [Upgrading to this version](#).

Installing FishEye 2.2
Download FishEye 2.2 now. See the documentation on <a href="#">Upgrading to this version</a> .

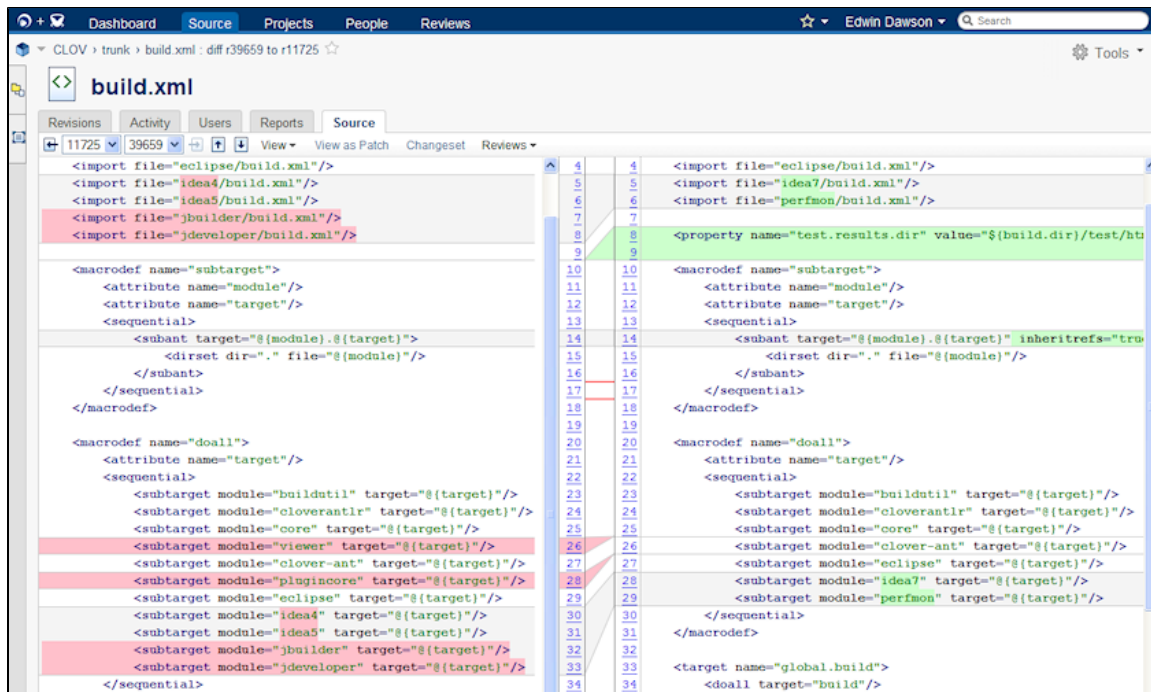
### Highlights of FishEye 2.2



#### Enhanced Side-by-Side Diff View Mode

FishEye 2.1 adds improvements for the side by side diff view mode, which displays a powerful visualisation of how code has changed between revisions. Two independently scrolling windows allow you to see new and old content clearly delineated, with explicit dynamic markings that anchor each change to its exact location in the left and right windows.

*Screenshot: Enhanced 'Side-by-Side Diff' Mode*



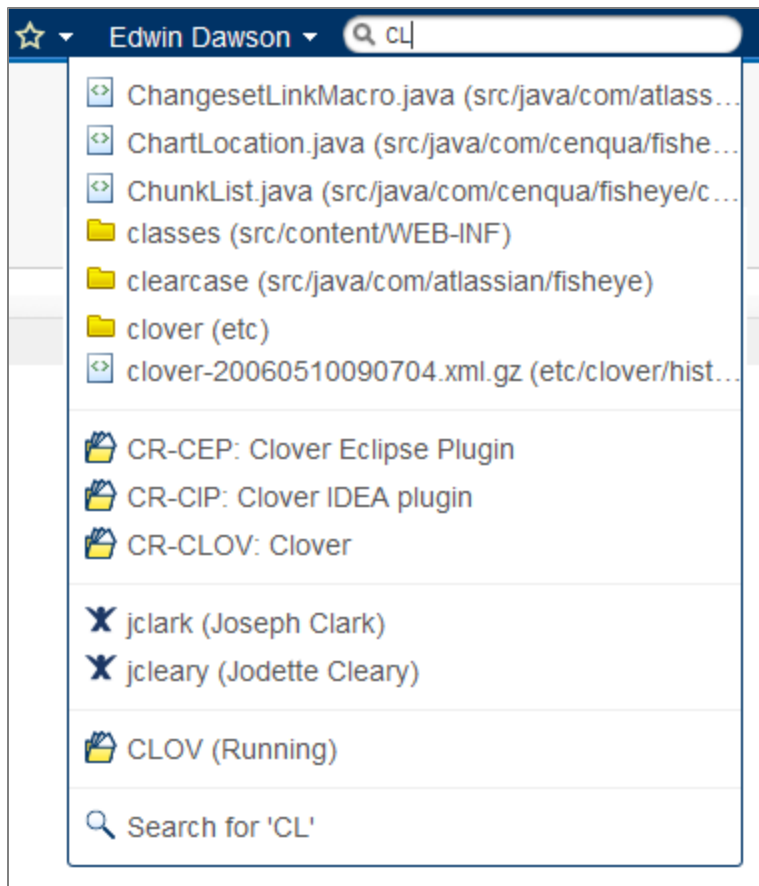
See the [documentation](#) for more details.

## 2

### Improved Quick Navigation

FishEye's Quick Nav has been re-written to display results faster, and to return more relevant results. It still supports powerful IDE-like functions such as camelcase detection, multiple directory selection and cross-repository results. All these items appear in a handy preview window, when you type text into the search box.

*Screenshot: Improved Quick Nav*



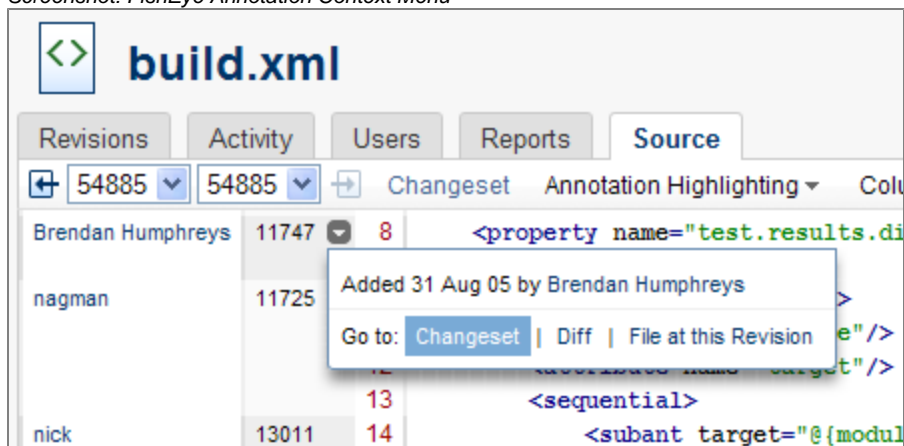
See the [documentation](#) for more details.

### 3

#### Annotation Context Menu

In FishEye, you can now drill down into the history of any line of code in a file. By hovering your mouse cursor next to the revision number in the left column, you can open the annotation context menu. From there, you can view the changeset where this file was changed, the diff of this line with the last change, or the full file from the time when this line changed. This speeds investigation of how certain lines have changed, when, and by whom.

Screenshot: *FishEye Annotation Context Menu*



See the [documentation](#) for more details.

## 4

## Code Copying

FishEye now lets you neatly copy and paste multiple lines of code directly from FishEye to the system clipboard, by dragging in the FishEye window to select. Previously, some other information would also be copied from the browser display. Now, only the code itself is copied for your convenience.

*Screenshot: Copying Code from FishEye*

The screenshot shows the FishEye interface for a file named `build.xml`. The 'Source' tab is active, displaying a list of revisions on the left and the source code on the right. A selection of lines 10 through 18 is highlighted in blue. A yellow 'Copy' button is visible over the code. The code is an Ant build file snippet.

Revisions	Activity	Users	Reports	Source
54885	54885	Changeset	Annotation Highlighting	Columns
Michael Studman	39659	6		<code>&lt;import file="perfmon/build.xml"/&gt;</code>
daniel	9432	7		
Brendan Humphreys	11747	8		<code>&lt;property name="test.results.dir" value="\${build.dir}/test/html-report"/&gt;</code>
nagman	11725	10		<code>&lt;macrodef name="subtarget"&gt;</code>
		11		<code>  &lt;attribute name="module"/&gt;</code>
		12		<code>  &lt;attribute name="target"/&gt;</code>
		13		<code>  &lt;sequential&gt;</code>
nick	13011	14		<code>    &lt;subant target="@{module}.@{target}" inheritrefs="true" inheritall="true"&gt;</code>
nagman	11725	15		<code>      &lt;dirset dir="." file="@{module}"/&gt;</code>
		16		<code>    &lt;/subant&gt;</code>
		17		<code>  &lt;/sequential&gt;</code>
		18		<code>&lt;/macrodef&gt;</code>
daniel	9432	19		
nagman	11725	20		<code>&lt;macrodef name="doall"&gt;</code>
		21		<code>  &lt;attribute name="target"/&gt;</code>
		22		<code>&lt;sequential&gt;</code>

See the [documentation](#) for more details.

## 5

## ClearCase and Git Support Now Final

FishEye's support for IBM ClearCase and Git has been in public beta for a number of months, but with the release of FishEye 2.2 it's now officially final. Having benefited from a good dose of spit and polish by our developers, these features are now fully supported and ready for production use.

See the [FishEye ClearCase documentation](#) and the [FishEye Git documentation](#) for more details.

## 6

## Numerous improvements and bug fixes

Visit our [issue tracker](#) to see the full list of improvements and bug fixes.

## FishEye 2.2 Changelog

This page contains information about the FishEye 2.2 minor releases.



Please read the [FishEye 2.2 Upgrade Guide](#) before upgrading to any of the minor releases below.

**On this page:**

- [From 2.2.1 to 2.2.3](#)
- [From 2.2.0 to 2.2.1](#)

**From 2.2.1 to 2.2.3****4th May 2010**

This release addresses critical security issues. Atlassian strongly recommends that you upgrade to the latest version. Please read the [Security Advisory](#) for details.

This is a security and bug fix release, addressing the issues listed below. See the [Security Advisory](#) for specific information about the fixes and patches which are available.

<b>JIRA Issues (34 issues)</b>			
<b>Key</b>	<b>Summary</b>	<b>Priority</b>	<b>Status</b>
FE-2572	Repository rescan configuration options not visible		Closed
FE-2567	Add CAPTCHA-reset to admin interface		Closed
FE-2566	Repository reindex performed after aborted index using incorrect start date		Closed
FE-2559	Use HttpOnly cookies for session cookies		Closed
FE-2558	Base ClearCase support should handle processing VOB subpaths when reusing snapshot views		Closed
FE-2557	Use the Repository name when creating views for Base ClearCase projects		Closed
FE-2554	Base ClearCase code is not processing all branches of a VOB		Closed
FE-2534	Incorrect author information being used when processing version deletions		Closed
FE-2527	FileNotFoundException generated when content is processed		Closed
FE-2524	NullPointerException generated when repository index is processed		Closed
FE-2508	Permissions error with new projects - no Moderator role		Closed
FE-2503	When using the "initial import" feature, an anonymous committer is automatically created which counts against your license		Closed
FE-2448	Allow user to suppress specific branches		Closed
FE-2401	Support XML files for ClearCase repository		Closed
FE-2385	'remember' cookies for users with characters needing to be url escaped (e.g. '@' or ' ') in their username do not work		Closed
FE-2301	Close LDAP NamingEnumerations		Closed
FE-2016	Repository link is broken when the file name with a hash in the P4 repository		Closed
FE-1844	if the file revision is marked as binary the "diff" checkbox should be disabled		Closed



FE-1840	user options has "File history view mode: Physical/Logical" — does this mean anything now?		Closed
FE-1838	user options has "Default annotation mode: Age/Author/None" — where is mixed?		Closed
FE-1833	STUPID - user options has "Length of tag list: Hide/Medium/Long" — "hide" isn't a length		Closed
FE-1826	funny line artefact in review statistics		Closed
FE-1685	activity stream sporadically display a wrong author for a commit activity item		Closed
FE-1677	hover near edge of page pushes page out of layout		Closed
FE-1517	Safari ignores content type for FishEye URLs ending in .tar.gz		Closed
FE-1474	Sidebar outstanding todos		Closed
FE-1317	Update existing report plugins		Closed
FE-1315	Scrap VelocityHelper & expose Velocity classes to plugins		Closed
FE-1134	Global Scheduler improvements		Closed
FE-1060	allow a way to set the misfire instruction		Closed
FE-963	allow a way to register job class names with the quartz manager		Closed
FE-913	continuing work on the fisheye api		Closed
FE-883	show partial matches in quicknav results		Closed
FE-664	Create a sanity/perf test of the FishEye REST api		Closed





























FishEye version 2.2.2 was an internal release.

#### From 2.2.0 to 2.2.1

#### 9th March 2010

This is a bugfix release, addressing the following issues:

JIRA Issues (19 issues)			
Key	Summary	Priority	Status
FE-2517	Java errors when using ClearCase		Closed
FE-2498	Paths with upper-case characters break stats from changeset index		Closed
FE-2495	OOME on quicknavchangeset indexing		Closed
FE-2492	Include support for users whose names have spaces		Closed
FE-2490	Unable to open connection to Subverion version 1.6.6		Resolved

FE-2482	Upgrade bundled SVNKit from 1.3.1 to 1.3.2		 Closed
FE-2475	git repo updater cannot be set		 Closed
FE-2472	java.lang.IndexOutOfBoundsException generated when updating repository details		 Closed
FE-2462	Listing Projects via REST is slow because we eagerly load the allowed reviewers, even though that field is 'expandable'		 Closed
FE-2459	Incorrect location used when processing the Base ClearCase history for a multi-level VOB		 Closed
FE-2456	jira keys are not autolinked in html email		 Closed
FE-2450	Updater - Poll Period - Disable Poll always remains unchecked for 'never'		 Closed
FE-2432	Trailing spaces added to some file names in scan, causing cleartool desc to fail		 Closed
FE-2425	Configurable polling period for Git repositories		 Closed
FE-2405	NPE reported when new directories/files are indexed		 Closed
FE-2402	VCS error   SVN repository client error accessing local file		 Closed
FE-2390	FishEye becomes a CPU Hog (infinite loop) if you enter the wrong password for a repository		 Closed
FE-2385	'remember' cookies for users with characters needing to be url escaped (e.g. '@' or ' ') in their username do not work		 Closed
FE-2280	ClearCase scan issue		 Closed

## FishEye 2.2 Upgrade Guide

Below are some important notes on upgrading to **FishEye 2.2**. For details of the new features and improvements in this release, please read the [FishEye 2.2 Release Notes](#) and [FishEye 2.2 Changelog](#).

On this page:

- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the FishEye Upgrade](#)

### Upgrade Procedure



#### Upgrade a test environment first

As always, please test your upgrades in your test environment before rolling into production.

If you are already running a version of FishEye, please follow these instructions on [FishEye Upgrade Guide](#).

### Checking for Known Issues and Troubleshooting the FishEye Upgrade

If something is not working correctly after you have completed the steps above to upgrade your FishEye installation, please check for known FishEye 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 FishEye after we have released the software. In such cases we publish information about the known issues in the FishEye Knowledge Base. Please check the [FishEye 2.2 Known Issues](#) in the FishEye Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the FishEye upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the FishEye 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

[FishEye 2.2 Release Notes](#)

## FishEye 2.1 Release Notes



FishEye 2.5 has now been released. Read the [Release Notes](#).

12 November 2009



For details on minor releases since FishEye 2.1, see the [FishEye Changelog](#).

### Atlassian presents FishEye 2.1

**FishEye 2.1** adds new search options, streamlined JIRA integration and runs significantly faster.

#### Highlights of this release:

- [Wiki Markup in Commit Messages](#)
- [Streamlined JIRA Integration](#)
- [FishEye Admin API](#)
- [History Page Performance Increases](#)
- [ClearCase Support Now in Beta](#)
- [Numerous improvements and bug fixes](#)

Thank you for your interest in FishEye 2.1.



See the documentation on [Upgrading to this version](#).

#### Installing FishEye 2.1

You can now download FishEye 2.1 from [here](#). See the documentation on [Upgrading to this version](#).

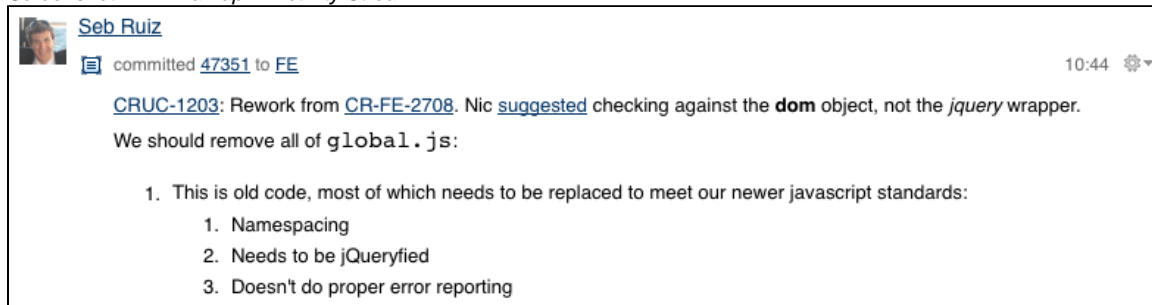
### Highlights of FishEye 2.1



#### Wiki Markup in Commit Messages

You can now use Atlassian Wiki Markup in your [commit messages](#) — **bold text**, *italics*, code, links, images and much more — FishEye will render it. [Crucible](#) now has Wiki Markup Rendering as well.

*Screenshot: Wiki Markup in Activity Stream*



## 2

## Streamlined JIRA Integration

The JIRA hover feature has been improved, now resolving JIRA user names as they appear in FishEye. The integration has also been updated to support JIRA 4.

*Screenshot: Streamlined JIRA Integration*

The screenshot shows the FishEye Dashboard for user Edwin Dawson. The dashboard has tabs for Activity, Reviews, and Favourites. Under the Activity tab, there are sub-tabs for All Activity, Commits, Reviews, and Issues. The Issues tab is selected, showing a list of JIRA issues. Each issue entry includes a JIRA icon, the issue key, the user's action, and the date. The issues listed are:

- closed [FE-2130](#) (26 Oct)  
On a ruling from the product owner, I've deleted the page.
- commented on [FE-1964](#) (26 Oct)  
Does this recent documentation cover the requirements here?  
**How do I avoid long reindex times when I upgrade?**  
<http://confluence.atlassian.com/pages/viewpage.action?pageId=204047210>
- closed [CRUC-828](#), [CRUC-874](#), [CRUC-2499](#) (26 Oct)
- updated the Description of [CRUC-2461](#) (26 Oct)
- changed the status to To be reviewed of [CRUC-2499](#) (26 Oct)
- updated the Description of [CRUC-2461](#) (26 Oct)
- commented on [CRUC-2499](#) (26 Oct)

## 3

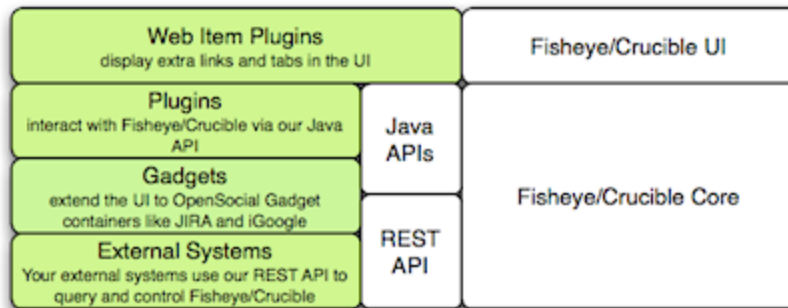
## FishEye Admin API

The FishEye administration API has been improved. It is now possible to let plugins control repositories, for example adding new repositories, starting, stopping and so on. This work will be followed by a REST layer to also make this available to remote clients and scripts. We also added [Atlassian Plugin SDK](#) support to FishEye and Crucible, simplifying build management for plugin developers. The developer documentation for FishEye and Crucible has been co-located into a [new documentation space](#) as well.

*Screenshot: New Development Documentation Space*

## A map of FishEye and Crucible technology

This image shows how the various components of FishEye and Crucible interact with each other:



Key: In this diagram, Green items are your code. White items are FishEye/Crucible components.

4

## History Page Performance Increases

The History page's now uses "lazy loading" - getting only those features, such as revisions and commit log messages, that can initially be seen by the viewer and then building out the rest of the page contents as they're required. New pagination options were added giving access to the first and last pages of information, in addition to the previous and next. This makes things work a lot faster.

Screenshot: FishEye's History Page

The screenshot displays the FishEye History Page for the file `build.xml`. The page is divided into several sections:

- Navigation:** Dashboard, Source, Projects, People, Reviews. User: Edwin Dawson.
- File Tree:** A sidebar showing the project structure, including `branches/`, `buildnumber/`, `tags/`, `trunk/`, `artwork/`, `build-dependencies/`, `bundled-plugins/`, `dependencies/`, `doc/`, `etc/`, `lib/`, `selenium/`, `sonar/`, `src/`, `support/`, `test/`, `gitignore`, `build.xml`, `common.properties`, `locations.properties`, `pom.xml`, and `schemadiffs.sh`.
- Revisions Table:**

Diff	Revision	Date	Message	Changeset
	47064	03 Nov	NONE: checkstyle fixes, setup-idea overwrites existing files in .idea	+2 -2
	47055	03 Nov	NONE: force the ant restore to use the specified jdbc jar file by putting it as the first entry in the classpath	+4 -4
	46973	02 Nov	NONE: minor cleanup	+10 -9
	46807	29 Oct	NONE: double ensure that we don't deploy snapshots on test failure	+2 -1
	46540	27 Oct	Revert 46538 'Add clover-tasks back to run tests'	+1 -1
	46538	27 Oct	Add clover-tasks back to run tests	+1 -1
	46052	19 Oct	CRUC-2379: improve AMPS sample data, take 2	-1
	46036	19 Oct	CRUC-2379: improve AMPS sample data	+4 -2
	46026	19 Oct	progress towards amps.dist & dist2amps ant tasks	+49 -16
	46025	19 Oct	NONE: add ability to deploy snapshots on CI builds	+12 -6
	45973	19 Oct	NONE: including crucible db in amps dist	+1
	45945	18 Oct	NONE: Added amps-fecru-data zip deploy.	+5
	45808	15 Oct	NONE: Fix doc.dac build target that broke after the api directory got moved.	+5 -5
	45786	14 Oct	NONE: definepoms can't depend on copypoms for prod builds	+2 -2
	45612	13 Oct	FE-2180: Update to modz 0.8	+1 -1
- Revision Details:**
  - Message:** NONE: checkstyle fixes, setup-idea overwrites existing files in .idea
  - Author:** Tom Davies
  - Revision:** 47064
  - Changeset:** 47064
  - Date:** 03 November 2009 22:54 (25 hours)
  - Properties:**
    - cenqua = hello
    - svn:eol-style = native
    - svn.executable = \*
    - svn.keywords = Author Date Id Revision

## 5

**ClearCase Support Now in Beta**

FishEye's support for IBM ClearCase is now in beta, following extensive feedback from our brave alpha testers.

## 6

**Numerous improvements and bug fixes**

Visit our [issue tracker](#) to see the full list of improvements and bug fixes.

**FishEye 2.1 Changelog**

This page contains information about the FishEye 2.1 minor releases.



Please read the [FishEye 2.1 Upgrade Guide](#) before upgrading to any of the minor releases below.

**On this page:**

- [From 2.1.3 to 2.1.4](#)
- [From 2.1.2 to 2.1.3](#)
- [From 2.1.1 to 2.1.2](#)
- [From 2.1.0 to 2.1.1](#)

**From 2.1.3 to 2.1.4****27th January 2010**































This is a bugfix release, addressing the following issues:

<b>JIRA Issues (9 issues)</b>			
<b>Key</b>	<b>Summary</b>	<b>Priority</b>	<b>Status</b>
FE-2415	NullPointerException generated when viewing XML documents	↓	✓ Closed
FE-2411	cvs updater ignores period==0 if it finds a remote tag	↑	✓ Closed
FE-2409	Initial scan lshistory of large VOB never finishes	↑	✓ Closed
FE-2404	FishEye should re-examine Activity contents to determine if subsequent changes have been added	↑	✓ Closed
FE-2403	Information about VOB comparisons is being logged at INFO rather than DEBUG	↓	✓ Closed
FE-2398	Base ClearCase logic should apply the include/exclude rules when processing lshistory output	↓	✓ Closed
FE-2386	StringIndexOutOfBoundsException when viewing files in a ClearCase repo	↑	✓ Closed
FE-2127	EyeQL only returns one file per changeset	↑	✓ Closed
FE-2017	Cache directory not deleted when repository removed from Fisheye	↓	✓ Closed

**From 2.1.2 to 2.1.3****13th January 2010**

This is a bugfix release, addressing a number of ClearCase bugs and performance problems.

The following issues are addressed by this release:





<b>JIRA Issues (15 issues)</b>			
<b>Key</b>	<b>Summary</b>	<b>Priority</b>	<b>Status</b>
FE-2424	Fisheye's default shell fails on Solaris		 Closed
FE-2366	Make View Storage Location an optional field		 Closed
FE-2345	Invoke cleartool in interactive mode rather than creating new instances for each invocation		 Closed
FE-2343	Improve git rename detection		 Closed
FE-2342	Allow git executable location to be configured		 Closed
FE-2337	An cleartool exception is generated when the Admin UI is opened		 Closed
FE-2333	The 'VOB to Include' field only displays non-PVOBs		 Closed
FE-2328	Values entered in the VOB/UCM Inclusion rules are not displayed on the Repository Details page		 Closed
FE-2327	NullPointerException in ClearCaseRepositoryEngine		 Closed
FE-2325	Allow FishEye to index private ClearCase VOBs		 Closed
FE-2323	Improve performance of Base ClearCase indexing		 Closed
FE-2312	No vobsToReturn were found error scanning ClearCase even though the Vobs were shown in the UI when configuring the repo		 Closed
FE-2299	Base ClearCase code generates incorrect view name on Windows		 Closed
FE-1921	author mappings dont work in the settings dialog		 Closed
FE-1642	Pasting a license string with an ampersand in the ui, breaks FE		 Closed

#### From 2.1.1 to 2.1.2

#### 19th November 2009

This is a bugfix release.

















The following issues are addressed by this release:

<b>JIRA Issues (4 issues)</b>			
<b>Key</b>	<b>Summary</b>	<b>Priority</b>	<b>Status</b>
FE-2308	Do not creat tags when files are copied into a tag area from outside the repository scope		 Closed
FE-2307	Can't set the use built-in symbolic rules for Subversion repositories		 Closed
FE-2303	revision icons not inline on p4 repo activity streams		 Closed
FE-2282	Quicklaunch of repositories closes before repository selection.		 Closed

**From 2.1.0 to 2.1.1****17th November 2009**

This is a bugfix release.

The following issues are addressed by this release:

<b>JIRA Issues (8 issues)</b>			
<b>Key</b>	<b>Summary</b>	<b>Priority</b>	<b>Status</b>
FE-2302	File History Diff navigation broken in 2.1		 Closed
FE-2301	Close LDAP NamingEnumerations		 Closed
FE-2300	Column headers don't display correctly in IE7 on Repositories tab		 Closed
FE-2298	out of bounds error?		 Closed
FE-2296	Attempt to continue when errors occur in the content retrieval logic		 Closed
FE-2271	Exceptions generated when users attempt to test ClearCase Repository connection		 Closed
FE-2255	Activity details are being duplicated on the Activity tab		 Closed
FE-2176	Enable users to specify if they want the includes/excludes rule to be exact matches		 Closed

**FishEye 2.1 Upgrade Guide**

Below are some important notes on upgrading to **FishEye 2.1**. For details of the new features and improvements in this release, please read the [FishEye 2.1 Release Notes](#) and [FishEye 2.1 Changelog](#).

**On this page:**

- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the FishEye Upgrade](#)

***Upgrade Procedure*****Upgrade a test environment first**

As always, please test your upgrades in your test environment before rolling into production.

If you are already running a version of FishEye, please follow these instructions on [FishEye Upgrade Guide](#).

***Checking for Known Issues and Troubleshooting the FishEye Upgrade***

If something is not working correctly after you have completed the steps above to upgrade your FishEye installation, please check for known FishEye 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 FishEye after we have released the software. In such cases we publish information about the known issues in the FishEye Knowledge Base. Please check the [FishEye 2.1 Known Issues](#) in the FishEye Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the FishEye upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the FishEye 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**

[FishEye 2.1 Release Notes](#)

[FishEye 2.1 Changelog](#)



## FishEye 2.0 Release Notes



FishEye 2.5 has now been released. Read the [Release Notes](#).

30 June 2009



For details on minor releases since FishEye 2.0, see the [FishEye Changelog](#).

### Atlassian presents FishEye 2.0

**FishEye 2.0** adds enhanced JIRA integration and a brand new user interface.

#### Highlights of this release:

- Activity Streams
- People
- Favourites, bookmarks & saved search
- Enhanced JIRA Integration
- Projects
- New User Interface
- Quick Navigation & Improved Quick Search
- Git Beta
- Numerous improvements and bug fixes

Thank you for your interest in FishEye 2.0.



See the documentation on [Upgrading to this version](#).

#### Installing FishEye 2.0

You can now download the FishEye 2.0 from [here](#). See the documentation on [Upgrading to this version](#).

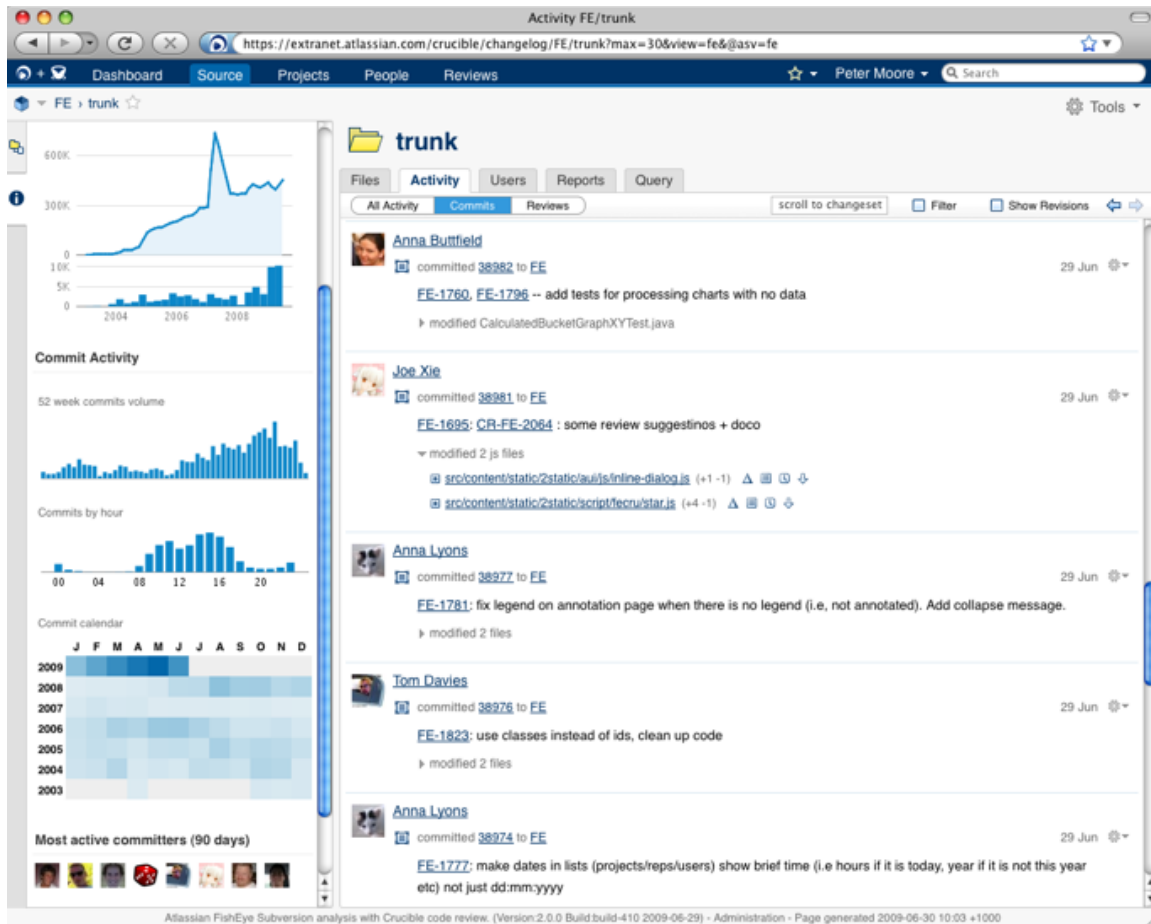
### Highlights of FishEye 2.0



#### Activity Streams

FishEye 2 provides an activity stream showing commits, JIRA issues, and Crucible review activities. Activity streams are available across all repositories, from any directory, person, project and even individual files. Your home page provides a custom feed generated from the people, projects, and source you have selected as favorites.

*Screenshot: Activity for a directory*

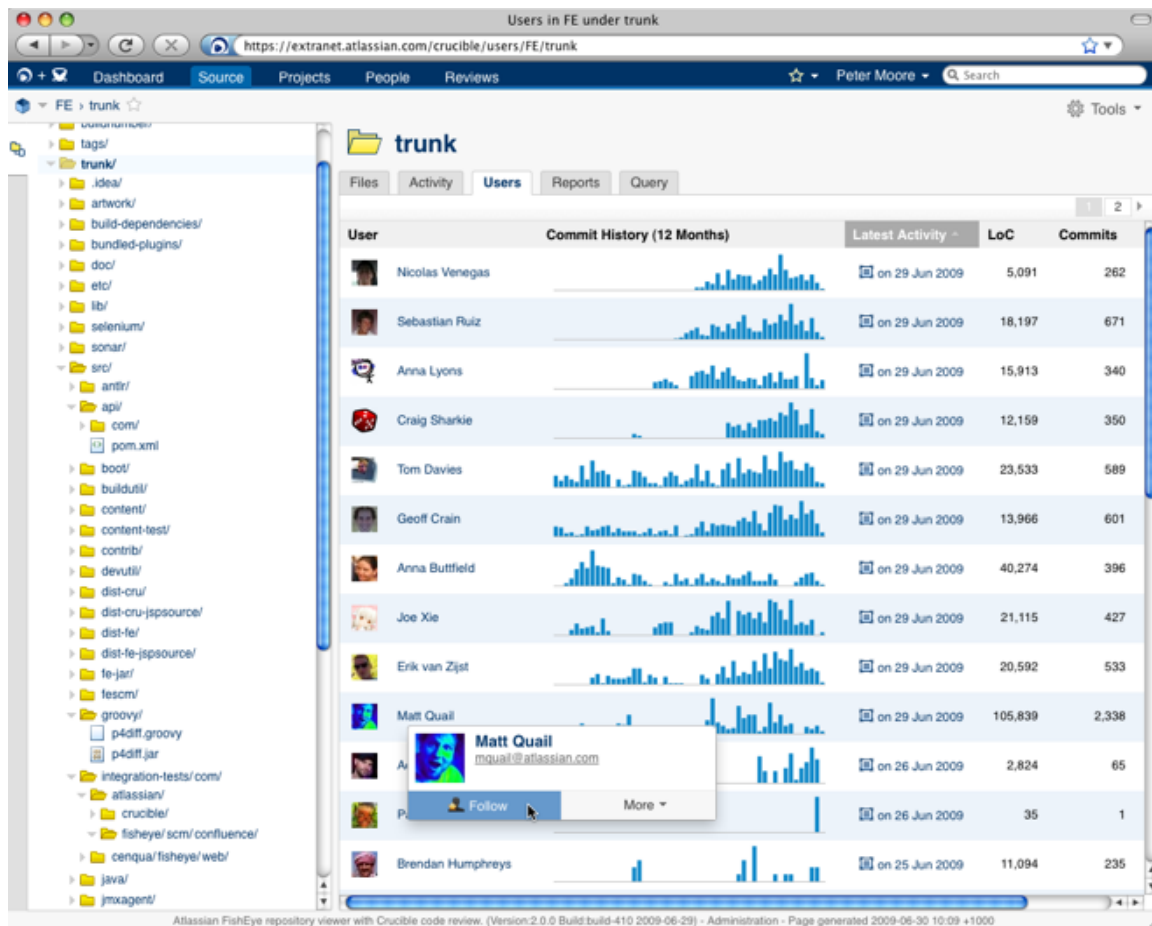


## 2

### People

Each user and committer in FishEye 2 has a page showing their statistics and activity. You can also see activity grouped by user from all repositories down to an individual file. You can sort by latest activity, commits, line count, even reviews using Crucible.

*Screenshot: Users on trunk sorted by activity*



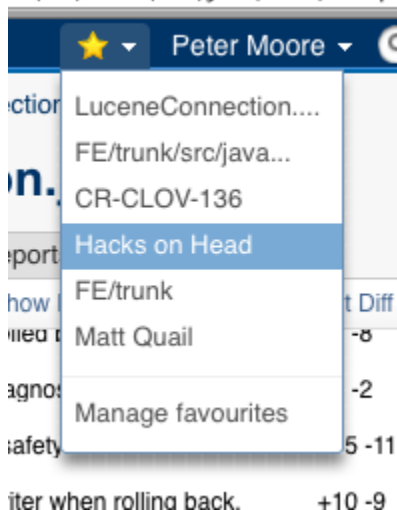
3

### Favourites, bookmarks & saved search

Clicking on the star icon on almost any artifact in FishEye adds that artifact to the your bookmark menu, and adds any downstream activity for that artifact to your personal dashboard. It also makes them searchable in quicknav. Charts and searches can be saved and given custom names for simpler reuse.

Screenshot: New Favourite Menu

se/FE/trunk/src/java/com/cenqu

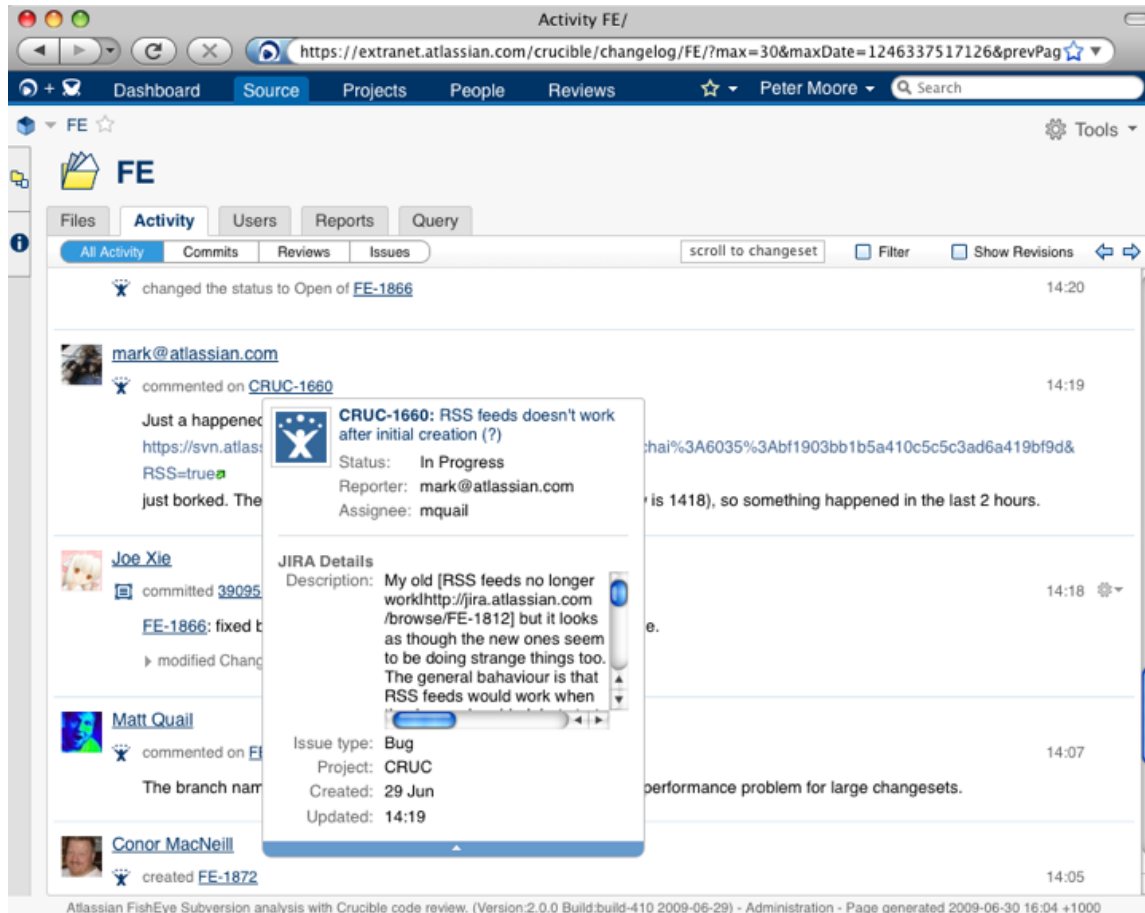


## 4

## Enhanced JIRA Integration

Multiple JIRA servers can be configured for your FishEye instance. Projects and repositories can be mapped to one, several, or all JIRA projects. FishEye retrieves summary issue information when you mouseover a JIRA key anywhere in FishEye. Optionally you can include issue activity in your FishEye activity streams as well.

*Screenshot: Enhanced JIRA Integration*

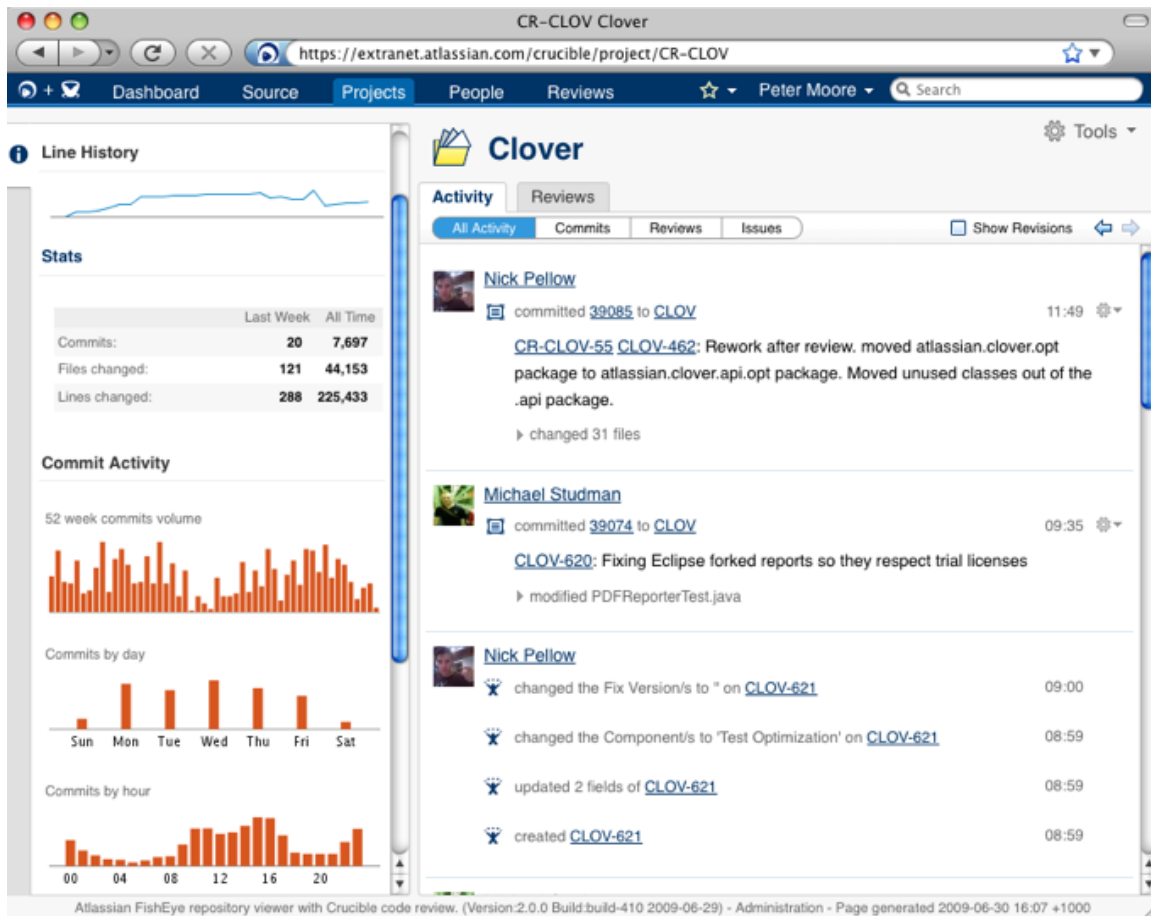


## 5

## Projects

Multiple repositories or subsets of repositories can be combined into a project to provide a more focussed reporting and activity streams for teams that have source spread across repositories, or even different source control systems.

*Screenshot: A Project page*

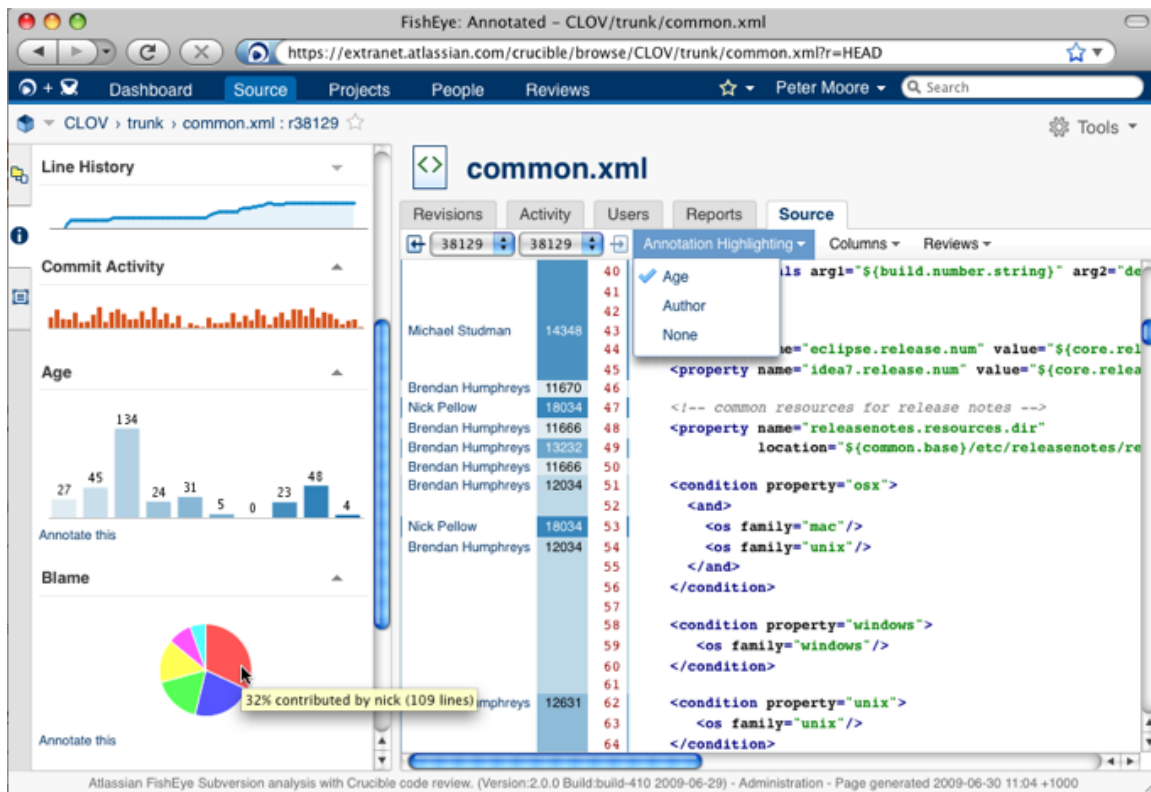


## 6

## New User Interface

The FishEye team has completely revamped the user interface. FishEye now uses an intuitive three pane view, with a rewritten file explorer and collapsible chart and information panes. There is better access to menus, user hovers, and lots more.

*Screenshot: New annotation*

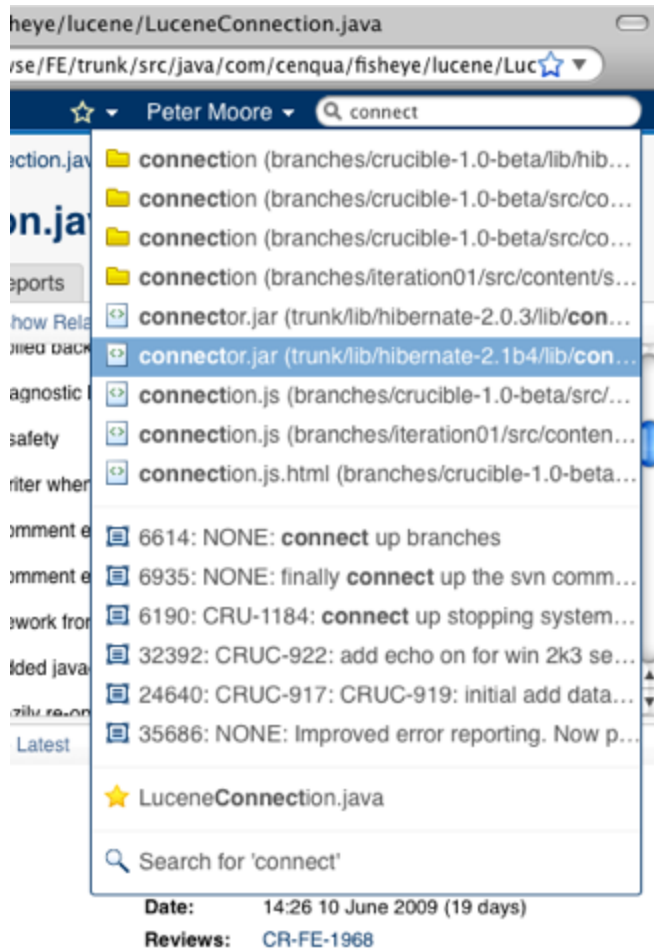


7

## Quick Navigation & Improved Quick Search

Typing into the search box on the top right of every page now gives you quick access to directories, files, changesets, even your personal favourites. Quick search now works across repositories and is significantly faster.

*Screenshot: Quicknav*



## 8

## Git Beta

FishEye 2 adds beta support for Git repositories. There are still a few kinks to be worked out, but it provides full access to FishEye's functionality.

*Screenshot: The linux kernel's Git repository in FishEye*

Activity kernel/drivers/bluetooth

http://awali.sydney.atlassian.com:6060/fisheye/changelog/kernel/drivers/bluetooth?max=30&view=

Dashboard Source Projects People Reviews Search

kernel > drivers > bluetooth

bluetooth

Files Activity Users Reports Query

All Activity Commits Reviews scroll to changeset Filter Show Revisions

**Alexey Dobriyan**  
committed 64ccd715... to kernel 23 Jun 05  
[PATCH] Convert users to tty\_unregister\_idisc()  
tty\_register\_idisc(N\_FOO, NULL) => tty\_unregister\_idisc(N\_FOO)  
Signed-off-by: Alexey Dobriyan <adobriyan@gmail.com>  
Signed-off-by: Andrew Morton <akpm@osdl.org>  
Signed-off-by: Linus Torvalds <torvalds@osdl.org>  
changed 12 c files

**Linus Torvalds**  
committed 1da177e4... to kernel 17 Apr 05  
Linux-2.6.12-rc2  
Initial git repository build. I'm not bothering with the full history, even though we have it. We can create a separate "historical" git archive of that later if we want to, and in the meantime it's about 3.2GB when imported into git - space that would just make the early git days unnecessarily complicated, when we don't have a lot of good

Atlassian FishEye repository viewer with Crucible code review. (Version:2.0.0 Build:build-SNAPSHOT 2009-06-30) - Administration - Page generated 2009-06-30 17:18 +1000

## 9

## Numerous improvements and bug fixes

Visit our [issue tracker](#) to see the full list of improvements and bug fixes.

## FishEye 2.0 Changelog

This page contains information about the FishEye 2.0 minor releases.



Please read the [FishEye 2.0 Upgrade Guide](#) before upgrading to any of the minor releases below.

### On this page:

- From 2.0.5 to 2.0.6
- From 2.0.4 to 2.0.5
- From 2.0.3 to 2.0.4
- From 2.0.2 to 2.0.3
- From 2.0.1 to 2.0.2
- From 2.0 to 2.0.1
- From 2.0 Beta3 to 2.0
- From 2.0 Beta2 to 2.0 Beta3
- From 1.6.6 to 2.0 Beta

### From 2.0.5 to 2.0.6

#### 8th October 2009

This is a bugfix release.

This release fixes a bug that affected Crucible-only installations.



**From 2.0.4 to 2.0.5****6th October 2009**

This is a bugfix and improvement release.

- **Support for new licenses:** [Starter licenses](#) are special offer, low-cost licenses that allow small teams to make use of Atlassian products.





The following issues are addressed by this release:

<b>JIRA Issues (12 issues)</b>			
<b>Key</b>	<b>Summary</b>	<b>Priority</b>	<b>Status</b>
FE-2163	Repository Edit form - Return key may cause 'Accept' button to become occluded		Closed
FE-2157	Atlassian Footer not appearing as a footer		Closed
FE-2143	Fisheye treats files as binary if they used to have a svn:mime-type property, even after the property has been removed		Closed
FE-2095	NPE when clicking on the 'Edit License' link		Closed
FE-2054	add FishEye/Crucible support in AMPS, continued		Closed
FE-2029	Issue names (and links) not shown in activities or issues tab after JIRA integration		Closed
FE-1933	Create personal license for FishEye		Closed
FE-1851	Remove a repository should also remove the caches, indexes and temporarily files		Closed
FE-1425	User browser should not use case-sensitive search on e-mail address		Closed
FE-1367	Add case sensitive flag to the includes		Closed
FE-1277	Fisheye automatic tag detection doesn't work well		Closed
FE-712	finish upgrade to atlassian licensing 2.0		Closed

**From 2.0.3 to 2.0.4****8th September 2009**

















This is a bugfix and improvement release. This release addresses the following issues:

<b>JIRA Issues (9 issues)</b>			
<b>Key</b>	<b>Summary</b>	<b>Priority</b>	<b>Status</b>
FE-2078	Excludes doesn't work well with path		Closed
FE-2050	Merge AMPS support to branch		Closed
FE-2034	in changeset dropdown, "Context Permalink" becomes "Permalink"		Closed
FE-2032	any comma in the field for svn:author is preventing author constraint drop down from functional properly		Closed
FE-2021	Excludes do not work on checkouts		Closed
FE-2020	Email subject should say '[Fisheye]', not '[Crucible]'		Closed
FE-2006	Fisheye not compatible with crowd 2.0		Closed

FE-1939	Improve performance for opening the changelog page when there is very large changesets		 Closed
FE-773	Set the default permgen space to 128m if it hasn't been set		 Closed













**From 2.0.2 to 2.0.3****18th August 2009**

This is a bugfix release which includes the following issues:

JIRA Issues (8 issues)			
Key	Summary	Priority	Status
FE-1995	Create Support Zip and create support request via mail does not include SCM Light plugin configuration from 2.0		 Closed
FE-1987	Fisheye throws error when you add a svn repository with 0 revisions		 Closed
FE-1984	Git not supported in FishEye/Crucible Rest API		 Closed
FE-1963	Add link to FishEye 101 in Readme.html		 Closed
FE-1960	refinements to author blame		 Closed
FE-1934	Toggling debug on and off states a confusing message in the logs.		 Closed
FE-1901	OOME with very large memory consumption by org.apache.lucene.document.Document		 Closed
FE-811	File Explorer author constraint is case-sensitive		 Closed

**From 2.0.1 to 2.0.2****24th July 2009**

This is a bugfix release which includes the following issues:













































JIRA Issues (6 issues)			
Key	Summary	Priority	Status
FE-1957	Excessive invocation of svn blame		 Closed
FE-1948	Svnkit throws "svn: authentication cancelled" for svn repositories accessed via svn+ssh		 Closed
FE-1943	Option to hide user email addresses		 Closed
FE-1938	NPE when viewing changelog with showid		 Closed
FE-1932	NoSuchElementException when defining a start revision for a svn url + path that is a sub section of a bigger repository		 Closed
FE-778	Automatically periodically reindex repositories, particularly with Perforce		 Closed

**From 2.0 to 2.0.1****14th July 2009**

This is a bugfix release which includes the following issues:

--	--	--	--

JIRA Issues (45 issues)			
Key	Summary	Priority	Status
FE-1930	Throwing NPE when loading charts		Closed
FE-1900	ELException when clicking on Report or Query tabs		Closed
FE-1896	Rescanning duplicates entries in the Changeset Index		Closed
FE-1894	Show My Activity toggle in Toolbar has a tooltip that says Exclude your activity, irrespective of what state the toggle is in		Closed
FE-1891	Can't view created projects in FE only mode		Closed
FE-1888	improve .idea project setup (move to a template)		Closed
FE-1887	set Findbugs config to threshold so current build passes - make build fail if we go backwards		Closed
FE-1886	improve concat Ant task so that it works when switching between concat/no-concat		Closed
FE-1885	Cannot delete projects when switching from Crucible + Fisheye, to just Fisheye and any added projects added after the crucible license is removed, do not show up in the projects tab		Closed
FE-1882	Avatar link creation doesn't lowercase email address first		Closed
FE-1881	NPE exception when indexing repository with Native Client		Closed
FE-1875	Corrupt @asv cookie preferences cause servlet exceptions on dashboard		Closed
FE-1874	poor z-index of crucible hover and the email review dialog box causing overlaps		Closed
FE-1866	scroll-to-changeset doesn't work if "Activity" is your sticky tab		Closed
FE-1864	Quick Search results doesn't warn when searching a repository that is being scanned.		Closed
FE-1863	(the new) RSS feeds should return 401 instead of the html login page		Closed
FE-1857	encoding problem on jira comment activity items		Closed
FE-1849	Profile dialog forget my name		Closed
FE-1845	the colours on the "blame" chart don't correspond to the colours of the blame in the annotation		Closed
FE-1841	cannot diff binary files" message could be prettier		Closed
FE-1839	inconsistent capitalisation		Closed
FE-1836	weird tooltip value (doesn't say it's a commit message)		Closed
FE-1823	Star widget causes duplicate ids		Closed

FE-1821	Safari 3.21: tools menu dropdown borkage		 Closed
FE-1801	IE: changeset activity stream menus too large and have transparent background		 Closed
FE-1798	If you change from side-by-side to unified in a review then change from soft to hard wrap you are reverted back to side-by-side.		 Closed
FE-1797	Shouldn't be able to submit empty quicksearch		 Closed
FE-1796	NegativeArraySizeException in charts		 Closed
FE-1788	Quicksearch Results Icon Alignment Poor		 Closed
FE-1786	Only the top part of 'Search Reviews' on the custom review filter is clickable		 Closed
FE-1785	'All Activity' and 'Reviews' tabs on /committer/REPO/NAME appear active on mouseover		 Closed
FE-1783	Deleting a repo doesn't delete committer mappings		 Closed
FE-1781	Legend and Commit activity accordion segments don't add value when expanded		 Closed
FE-1780	Breadcrumbs on /foo/admin/editAvatarType-default.do are wrong		 Closed
FE-1779	gravitar admin page table has poor layout		 Closed
FE-1777	Latest Activity on projects page should have time as well		 Closed
FE-1775	Author/Moderator name at the top of the review should be a link		 Closed
FE-1767	not selecting a repo in "Settings: User Mapping" and clicking "add" leads to empty user drop down		 Closed
FE-1764	JIRA change aggregation shows same issue id twice when two files attached to the same issue		 Closed
FE-1741	In the browse view, the 'show/hide deleted files' toggle is not respected when clicking on a node in the dir tree		 Closed
FE-1663	hover popups' shadows dont expand with the popups,		 Closed
FE-1514	Document disk space usage changes		 Closed
FE-1416	CR-FE-1499 Rework		 Closed
FE-1402	handle blank commiter names		 Closed
FE-1189	SVN initialscan does not create changeset index until end of scan		 Closed


















































From 2.0 Beta3 to 2.0



















































30th June 2009


















































Full list of issues in this release:

<b>JIRA Issues (200 issues)</b>
---------------------------------













































Key	Summary	Priority	Status
FE-1865	removing a favourite and then clicking on it again causes an error		Closed
FE-1854	Activity stream on project page doesn't filter by mapped JIRA projects		Closed
FE-1847	'star' instead of 'favourite' in cog menu		Closed
FE-1818	Links from files in a changeset to the file history page don't include the revision		Closed
FE-1815	a con: XML namespace is being added to saved config.xml		Closed
FE-1809	Enhance README.html to include links to Evaluator Guide, Installation Guide, and Upgrade Guide		Closed
FE-1808	FishEye RC1 tarball contains Readme.HTML that links to Crucible docs		Closed
FE-1804	we shouldn't show an empty star before a search has been performed - they throw an exception when clicked		Closed
FE-1802	with the blue background on the comment form you can't tell which button is active when tabbing through them		Closed
FE-1799	Collapse all files in review doesn't work if there is a comment anchor in the URL		Closed
FE-1784	Soft wrapping always selected in prefs menu		Closed
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
























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

































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















































FE-1356	Consistent time and age formats		 Closed
FE-1355	update stream jsps to render a changeset		 Closed
FE-1354	update all stream actions to take a csid		 Closed
FE-1353	Maintain stream context when viewing a changeset page		 Closed
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FE-1312	change the comparator BY_RECENT_ACTIVITY to sort nulls last -- remove have NoActivityItem		 Closed
FE-1311	use a better UI than ^ and V, see craig/pete		 Closed
FE-1310	Rework from CR-FE-1441: FE-1236: sortable and paged list of users at /users and committers		 Closed
FE-1307	Star in Changeset page breadcrumbs doesn't appear in Safari 3.2.1		 Closed
FE-1306	Changeset page should show longer extract of Crucible review title -- there's plenty of room		 Closed
FE-1305	Changeset page doesn't show spinner while loading diffs		 Closed
FE-1296	EyeQL results which include "group by" clause disconnect when serving second page		 Closed
FE-1294	-> ACTION		 Closed
FE-1293	-> ACTION		 Closed
FE-1291	refactor hover popup (cru/jira) linker		 Closed
FE-1289	turn global.js for fisheye into the jquery equivalent, and to split it up into proper modules.		 Closed
FE-1288	New UI treatment for extra change set page features		 Closed
FE-1287	UI Rework		 Closed
FE-1286	NPE viewing user-committer manager mappings in admin		 Closed
FE-1285	Integrate new ui for file history page		 Closed
FE-1279	fisheye code pointers should highlight the line they are pointing to		 Closed
FE-1276	Add permission checks to /fe/ ajax actions		 Closed
FE-1272	consolidate scripts into a single place, into head tag.		

			Closed
FE-1271	remove inline event handlers, replace with event binds		 Closed
FE-1265	make tree open at current path		 Closed
FE-1264	Integrate resizable column layout with dirlist.jsp		 Closed
FE-1262	Layout in Repository plugin page is broken		 Closed
FE-1259	just do it		 Closed
FE-1258	plugin finangling		 Closed
FE-1257	View review blockers report		 Closed
FE-1256	plugin finangling		 Closed
FE-1255	most active developers / directories		 Closed
FE-1254	punch card chart		 Closed
FE-1253	expose data via API		 Closed
FE-1252	View code metrics report		 Closed
FE-1251	create reports page		 Closed
FE-1250	create webitem + decorator		 Closed
FE-1249	Reports tab		 Closed
FE-1247	jsp wrangling		 Closed
FE-1246	action		 Closed
FE-1245	Add a project page		 Closed
FE-1244	update admin page		 Closed
FE-1243	db schema change to store proj info		 Closed
FE-1242	Add a collection of "content roots" across one or more repositories.		 Closed
FE-1241	refactor javascript - remove prototype		 Closed
FE-1240	Javascript refactor		 Closed
FE-1239	jsp		 Closed

FE-1238	new action to handle fetching / sorting		 Closed
FE-1237	lucene searcher		 Closed
FE-1236	List of users at /users and committers at /committers/REPO		 Closed
FE-1235	UI integration		 Closed
FE-1234	render chart table thingy		 Closed
FE-1233	searchy extractor thingy		 Closed
FE-1232	Activity calendar		 Closed
FE-1231	UI integration		 Closed
FE-1230	render chart		 Closed
FE-1229	implement searchy extractor thingy		 Closed
FE-1228	Activity histograms commits vs hour of day and day of week		 Closed
FE-1227	UI integration		 Closed
FE-1226	render the chart		 Closed
FE-1225	implement searchy extractor thingy		 Closed
FE-1224	Recent activity sparkline & chart		 Closed
FE-1223	just do it		 Closed
FE-1222	Show personal review summary on user home page		 Closed
FE-1221	just do it		 Closed
FE-1220	Show open review count on user pages		 Closed
FE-1218	jiralinkspan span is created inside anchor tags		 Closed
FE-1217	simple impl		 Closed
FE-1216	Ubiquitous (cross repo) quicksearch/nav		 Closed
FE-1212	just do it		 Closed
FE-1211	repo dropdown in breadcrumb bar		 Closed
			

FE-1209	build new JSP		 Closed
FE-1207	Reload the "files pane" with ajax from a click in the "tree pane" and update the breadcrumbs		 Closed
FE-1206	ajax remaining data		 Closed
FE-1204	Use a full tree to navigate the new browse page		 Closed
FE-1196	make action		 Closed
FE-1195	make a tag / javascript function / standardise		 Closed
FE-1194	Built in smart Crucible linker		 Closed
FE-1183	make repository and crucible defaults for jira issues that are not mapped redux		 Closed
FE-1140	Syntax Highlighting		 Closed
FE-1138	Review design of CommitterUserMapping.hmb.xml		 Closed
FE-1136	Add the ability to return unique results in EyeQL		 Closed
FE-1038	svn-connection getting wrong values out of the repository configuration		 Closed
FE-962	allow execution contexts to be added to quartz jobs / triggers		 Closed
FE-935	Allow users to remove the "Email Review" button via the GUI or add tool tip it to make its use clearer.		 Closed
FE-928	Repository with long names does not wrap correctly in folder view listing		 Closed
FE-914	fix diff text caching		 Closed
FE-906	REST auth-tokens should be instance-wide		 Closed
FE-904	Display commits for a branched file before the trunk commits that were performed prior to the branch operation		 Closed
FE-854	add smart filename search to quicksearch (including CamelCase initials)		 Closed
FE-851	Show related JIRA issues in annotated file view		 Closed
FE-838	FE: No hyperlink for copies expander		 Closed
FE-835	minify & combine javascript		 Closed
FE-831	p4 Issue to do with line endings causes logs to fill up with unexpected line errors		 Closed
FE-800	Date Constraint query combined with checking empty directories takes forever to return		 Closed
FE-796	'reviews' EyeQL return clause should return all reviews that the revision is included in		 Closed


















































FE-792	fix images for quicksearch dropdown		Closed
FE-788	Improve annotation Colours		Closed
FE-787	refactor quicksearch.jsp		Closed
FE-758	Upgrade to Atlassian-Plugins 2.1		Closed
FE-743	Introduce validation for Updater in fisheye or make configuration foolproof		Closed



















































### From 2.0 Beta2 to 2.0 Beta3

















































5th June 2009

Full list of issues in this release:













































JIRA Issues (200 issues)			
Key	Summary	Priority	Status
FE-1865	removing a favourite and then clicking on it again causes an error		Closed
FE-1854	Activity stream on project page doesn't filter by mapped JIRA projects		Closed
FE-1847	'star' instead of 'favourite' in cog menu		Closed
FE-1818	Links from files in a changeset to the file history page don't include the revision		Closed
FE-1815	a con: XML namespace is being added to saved config.xml		Closed
FE-1809	Enhance README.html to include links to Evaluator Guide, Installation Guide, and Upgrade Guide		Closed
FE-1808	FishEye RC1 tarball contains Readme.HTML that links to Crucible docs		Closed
FE-1804	we shouldn't show an empty star before a search has been performed - they throw an exception when clicked		Closed
FE-1802	with the blue background on the comment form you can't tell which button is active when tabbing through them		Closed
FE-1799	Collapse all files in review doesn't work if there is a comment anchor in the URL		Closed
FE-1784	Soft wrapping always selected in prefs menu		Closed
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




























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
















































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FE-1320	you shouldn't need to set the committers as a parameter, just set the <code>BreakdownOption</code> in <code>ParameterSetQuery</code> to <code>AUTHOR</code>		 Closed
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FE-1312	change the comparator <code>BY_RECENT_ACTIVITY</code> to sort nulls last -- remove have <code>NoActivityItem</code>		 Closed
FE-1311	use a better UI than ^ and V, see craig/pete		 Closed
FE-1310	Rework from CR-FE-1441: FE-1236: sortable and paged list of users at <code>/users</code> and committers		 Closed
FE-1307	Star in Changeset page breadcrumbs doesn't appear in Safari 3.2.1		 Closed
FE-1306	Changeset page should show longer extract of Crucible review title -- there's plenty of room		 Closed
FE-1305	Changeset page doesn't show spinner while loading diffs		 Closed
FE-1296	EyeQL results which include "group by" clause disconnect when serving second page		 Closed
FE-1294	-> ACTION		 Closed
FE-1293	-> ACTION		 Closed
FE-1291	refactor hover popup (cru/jira) linker		

			Closed
FE-1289	turn global.js for fisheye into the jquery equivalent, and to split it up into proper modules.		 Closed
FE-1288	New UI treatment for extra change set page features		 Closed
FE-1287	UI Rework		 Closed
FE-1286	NPE viewing user-committer manager mappings in admin		 Closed
FE-1285	Integrate new ui for file history page		 Closed
FE-1279	fisheye code pointers should highlight the line they are pointing to		 Closed
FE-1276	Add permission checks to /fe/ ajax actions		 Closed
FE-1272	consolidate scripts into a single place, into head tag.		 Closed
FE-1271	remove inline event handlers, replace with event binds		 Closed
FE-1265	make tree open at current path		 Closed
FE-1264	Integrate resizable column layout with dirlist.jsp		 Closed
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FE-1251	create reports page		 Closed
FE-1250	create webitem + decorator		 Closed
FE-1249	Reports tab		 Closed
FE-1247	jsp wrangling		 Closed

FE-1246	action		 Closed
FE-1245	Add a project page		 Closed
FE-1244	update admin page		 Closed
FE-1243	db schema change to store proj info		 Closed
FE-1242	Add a collection of "content roots" across one or more repositories.		 Closed
FE-1241	refactor javascript - remove prototype		 Closed
FE-1240	Javascript refactor		 Closed
FE-1239	jsp		 Closed
FE-1238	new action to handle fetching / sorting		 Closed
FE-1237	lucene searcher		 Closed
FE-1236	List of users at /users and committers at /committers/REPO		 Closed
FE-1235	UI integration		 Closed
FE-1234	render chart table thingy		 Closed
FE-1233	searchy extractor thingy		 Closed
FE-1232	Activity calendar		 Closed
FE-1231	UI integration		 Closed
FE-1230	render chart		 Closed
FE-1229	implement searchy extractor thingy		 Closed
FE-1228	Activity histograms commits vs hour of day and day of week		 Closed
FE-1227	UI integration		 Closed
FE-1226	render the chart		 Closed
FE-1225	implement searchy extractor thingy		 Closed
FE-1224	Recent activity sparkline & chart		 Closed
FE-1223	just do it		 Closed
			

















































FE-1222	Show personal review summary on user home page		 Closed
FE-1221	just do it		 Closed
FE-1220	Show open review count on user pages		 Closed
FE-1218	jiralinkspan span is created inside anchor tags		 Closed
FE-1217	simple impl		 Closed
FE-1216	Ubiquitous (cross repo) quicksearch/nav		 Closed
FE-1212	just do it		 Closed
FE-1211	repo dropdown in breadcrumb bar		 Closed
FE-1209	build new JSP		 Closed
FE-1207	Reload the "files pane" with ajax from a click in the "tree pane" and update the breadcrumbs		 Closed
FE-1206	ajax remaining data		 Closed
FE-1204	Use a full tree to navigate the new browse page		 Closed
FE-1196	make action		 Closed
FE-1195	make a tag / javascript function / standardise		 Closed
FE-1194	Built in smart Crucible linker		 Closed
FE-1183	make repository and crucible defaults for jira issues that are not mapped redux		 Closed
FE-1140	Syntax Highlighting		 Closed
FE-1138	Review design of CommitterUserMapping.hmb.xml		 Closed
FE-1136	Add the ability to return unique results in EyeQL		 Closed
FE-1038	svn-connection getting wrong values out of the repository configuration		 Closed
FE-962	allow execution contexts to be added to quartz jobs / triggers		 Closed
FE-935	Allow users to remove the "Email Review" button via the GUI or add tool tip it to make its use clearer.		 Closed
FE-928	Repository with long names does not wrap correctly in folder view listing		 Closed
FE-914	fix diff text caching		 Closed
FE-906	REST auth-tokens should be instance-wide		 Closed


















































FE-904	Display commits for a branched file before the trunk commits that were performed prior to the branch operation		Closed
FE-854	add smart filename search to quicksearch (including CamelCase initials)		Closed
FE-851	Show related JIRA issues in annotated file view		Closed
FE-838	FE: No hyperlink for copies expander		Closed
FE-835	minify & combine javascript		Closed
FE-831	p4 Issue to do with line endings causes logs to fill up with unexpected line errors		Closed
FE-800	Date Constraint query combined with checking empty directories takes forever to return		Closed
FE-796	'reviews' EyeQL return clause should return all reviews that the revision is included in		Closed
FE-792	fix images for quicksearch dropdown		Closed
FE-788	Improve annotation Colours		Closed
FE-787	refactor quicksearch.jsp		Closed
FE-758	Upgrade to Atlassian-Plugins 2.1		Closed
FE-743	Introduce validation for Updater in fisheye or make configuration foolproof		Closed



















































**From 1.6.6 to 2.0 Beta**

Full list of issues in this release:












































JIRA Issues (200 issues)			
Key	Summary	Priority	Status
FE-1865	removing a favourite and then clicking on it again causes an error		Closed
FE-1854	Activity stream on project page doesn't filter by mapped JIRA projects		Closed
FE-1847	'star' instead of 'favourite' in cog menu		Closed
FE-1818	Links from files in a changeset to the file history page don't include the revision		Closed
FE-1815	a con: XML namespace is being added to saved config.xml		Closed
FE-1809	Enhance README.html to include links to Evaluator Guide, Installation Guide, and Upgrade Guide		Closed
FE-1808	FishEye RC1 tarball contains Readme.HTML that links to Crucible docs		Closed
FE-1804	we shouldn't show an empty star before a search has been performed - they throw an exception when clicked		Closed
FE-1802	with the blue background on the comment form you can't tell which button is active when tabbing through them		Closed


















































FE-1799	Collapse all files in review doesn't work if there is a comment anchor in the URL		 Closed
FE-1784	Soft wrapping always selected in prefs menu		 Closed
FE-1778	admin project page doesn't render default and allowed reviewers		 Closed
FE-1771	Commit by hour chart time axis numbering incorrect		 Closed
FE-1770	Inconsistent and unsatisfactory highlighting colours on review page		 Closed
FE-1768	defect label on comments has no css, but draft does		 Closed
FE-1760	Infinite loop in CalculatedBucketGraphXY		 Closed
FE-1754	Cross-repo QS repository membership and ordering changes between pages		 Closed
FE-1703	Typo error		 Closed
FE-1698	Improve LDAP Authentication so it does not Abandon initial bind or do an CMP		 Closed
FE-1627	Add option to disable the indexing of diffs		 Closed
FE-1519	Change include/exclude parameters for Restore		 Closed
FE-1515	p4 calls labels command without supplying path when it needs to get the info on a particular label		 Closed
FE-1513	Upgrade to latest AGSL-1		 Closed
FE-1506	Truncate number of lines in scrolling log		 Closed
FE-1505	Restore should not fail if run from a different directory		 Closed
FE-1504	Update FE System Requirements - remove IE 6 from support browsers		 Closed
FE-1500	Let BackupManager store the job data in config.xml		 Closed
FE-1492	Anna's misc M7 non-ui tasks		 Closed
FE-1489	Add user timezone to send request by support so that all support requests have a valid timezone.		 Closed
FE-1485	chart tweaks and fixes		 Closed
FE-1484	Add directory tree to other pages		 Closed
FE-1483	Enhance directory tree to display file		 Closed
FE-1479	Make scale/chart nicer on code-metrics-report		 Closed



















































FE-1477	Fix code-metrics-report		 Closed
FE-1473	Make report plugin urls pretty		 Closed
FE-1472	Fix 'revisions' tabulation on code-metrics report		 Closed
FE-1467	Problem accessing Admin Remote API if the global anonymous access is off		 Closed
FE-1465	Refactor report plugin packages		 Closed
FE-1464	Report Mode Navigation (similar to Search Mode Navigation)		 Closed
FE-1463	Root (No Repository Context) Search Page		 Closed
FE-1455	Date Pickers should be jQuery pickers (remove old script file when done)		 Closed
FE-1453	Fix Structure (make search query controls in 'fixed/hard' section up top)		 Closed
FE-1452	Remove blanks from Author box		 Closed
FE-1451	Change "Search All Directories" to "Searching... <BREADCRUMB TRAIL>"		 Closed
FE-1449	Remove .do from global quicksearch url		 Closed
FE-1448	QuickSearch Improvements		 Closed
FE-1447	Search Mode Navigation		 Closed
FE-1441	Make revision comments appear on just one line in revision table		 Closed
FE-1435	No progress indicator on dir tree twiddle		 Closed
FE-1427	Improve group membership management		 Closed
FE-1418	Combine summarize and close emails		 Closed
FE-1417	CR-FE-1480 Rework		 Closed
FE-1415	fix up pagination in users/ page		 Closed
FE-1414	Fix it		 Closed
FE-1412	Fix it		 Closed
FE-1411	Fix QuickNav		 Closed
FE-1410	View Changeset Stream Context Fixes		 Closed
			


















































FE-1408	activity-streams plugin wrangling		 Closed
FE-1401	add a comment as one of the return columns in /search/FE/		 Closed
FE-1392	Change mset messages displayed in browse history table should not be truncated (except via css)		 Closed
FE-1391	quicksearch pages continuously displays progress indicator		 Closed
FE-1390	Fix error handling when loading directory subtrees via ajax		 Closed
FE-1389	Poor Javascript performance on file history page		 Closed
FE-1388	can sort by checkboxes in browse view		 Closed
FE-1387	bad title name in the config servlet for light svn plugin.		 Closed
FE-1386	Make physical/logical link labels indicate change to different state, not the current state		 Closed
FE-1385	Make tooltip content more descriptive		 Closed
FE-1383	RSS improvements		 Closed
FE-1369	Use Session Expires due to Jetty bug (JETTY-688)		 Closed
FE-1365	Page listing only source files to browse		 Closed
FE-1361	just do it		 Closed
FE-1360	Chart jsp refactorings		 Closed
FE-1357	write tag		 Closed
FE-1356	Consistent time and age formats		 Closed
FE-1355	update stream jsps to render a changeset		 Closed
FE-1354	update all stream actions to take a csid		 Closed
FE-1353	Maintain stream context when viewing a changeset page		 Closed
FE-1352	just do it		 Closed
FE-1351	preference and toggle to exclude own activity from home page stream		 Closed
FE-1349	just do it		 Closed
FE-1348	Switch all hover popups to use ajs.hover		 Closed
FE-1347	just do it		 Closed












































FE-1346	Open settings pages in ajs.dialog		 Closed
FE-1345	gravatar servlet		 Closed
FE-1344	config screen + jsps		 Closed
FE-1343	Avatar config screens		 Closed
FE-1342	make the committer page group by user if there are multiple committer with same user		 Closed
FE-1341	User & committer list rationalisation		 Closed
FE-1340	just do it		 Closed
FE-1339	One jsp for global quicksearch and repo qsearch		 Closed
FE-1338	just do it		 Closed
FE-1337	Switch all dropdowns to ajs.dropdown		 Closed
FE-1336	i.e. the old style changelog or what you get after you hit expand all		 Closed
FE-1335	preference to show files rather than summary in activity streams		 Closed
FE-1334	legend unfucking		 Closed
FE-1333	sparkline		 Closed
FE-1332	line history sparklines and user line history chart improvements		 Closed
FE-1331	just do it		 Closed
FE-1330	Integrate new html for diff/annotation pages		 Closed
FE-1329	just do it		 Closed
FE-1322	this should be done in a single query for all committers you're interested in, not once for every user or every committer		 Closed
FE-1321	you could use Math.max/min in a few places here		 Closed
FE-1320	you shouldn't need to set the committers as a parameter, just set the BreakdownOption in ParameterSetQuery to AUTHOR		 Closed
FE-1313	there is no real point paging if we are going to do these types of calculations for every user in the system. It's just not going to work imho. Is sorting by num-reviews a must have? If so do one query that counts reviews for all users, grouped by u		 Closed
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FE-1238	new action to handle fetching / sorting		 Closed
FE-1237	lucene searcher		 Closed
FE-1236	List of users at /users and committers at /committers/REPO		 Closed
FE-1235	UI integration		 Closed
FE-1234	render chart table thingy		 Closed
FE-1233	searchy extractor thingy		 Closed
FE-1232	Activity calendar		 Closed
FE-1231	UI integration		 Closed
FE-1230	render chart		 Closed

FE-1229	implement searchy extractor thingy		 Closed
FE-1228	Activity histograms commits vs hour of day and day of week		 Closed
FE-1227	UI integration		 Closed
FE-1226	render the chart		 Closed
FE-1225	implement searchy extractor thingy		 Closed
FE-1224	Recent activity sparkline & chart		 Closed
FE-1223	just do it		 Closed
FE-1222	Show personal review summary on user home page		 Closed
FE-1221	just do it		 Closed
FE-1220	Show open review count on user pages		 Closed
FE-1218	jiralinkspan span is created inside anchor tags		 Closed
FE-1217	simple impl		 Closed
FE-1216	Ubiquitous (cross repo) quicksearch/nav		 Closed
FE-1212	just do it		 Closed
FE-1211	repo dropdown in breadcrumb bar		 Closed
FE-1209	build new JSP		 Closed
FE-1207	Reload the "files pane" with ajax from a click in the "tree pane" and update the breadcrumbs		 Closed
FE-1206	ajax remaining data		 Closed
FE-1204	Use a full tree to navigate the new browse page		 Closed
FE-1196	make action		 Closed
FE-1195	make a tag / javascript function / standardise		 Closed
FE-1194	Built in smart Crucible linker		 Closed
FE-1183	make repository and crucible defaults for jira issues that are not mapped redux		 Closed
FE-1140	Syntax Highlighting		 Closed
			 Closed

FE-1138	Review design of CommitterUserMapping.hmb.xml		 Closed
FE-1136	Add the ability to return unique results in EyeQL		 Closed
FE-1038	svn-connection getting wrong values out of the repository configuration		 Closed
FE-962	allow execution contexts to be added to quartz jobs / triggers		 Closed
FE-935	Allow users to remove the "Email Review" button via the GUI or add tool tip it to make its use clearer.		 Closed
FE-928	Repository with long names does not wrap correctly in folder view listing		 Closed
FE-914	fix diff text caching		 Closed
FE-906	REST auth-tokens should be instance-wide		 Closed
FE-904	Display commits for a branched file before the trunk commits that were performed prior to the branch operation		 Closed
FE-854	add smart filename search to quicksearch (including CamelCase initials)		 Closed
FE-851	Show related JIRA issues in annotated file view		 Closed
FE-838	FE: No hyperlink for copies expander		 Closed
FE-835	minify & combine javascript		 Closed
FE-831	p4 Issue to do with line endings causes logs to fill up with unexpected line errors		 Closed
FE-800	Date Constraint query combined with checking empty directories takes forever to return		 Closed
FE-796	'reviews' EyeQL return clause should return all reviews that the revision is included in		 Closed
FE-792	fix images for quicksearch dropdown		 Closed
FE-788	Improve annotation Colours		 Closed
FE-787	refactor quicksearch.jsp		 Closed
FE-758	Upgrade to Atlassian-Plugins 2.1		 Closed
FE-743	Introduce validation for Updater in fisheye or make configuration foolproof		 Closed

## FishEye 2.0 Upgrade Guide

Below are some important notes on upgrading to **FishEye 2.0**. For details of the new features and improvements in this release, please read the [FishEye 2.0 Release Notes](#) and [FishEye 2.0 Changelog](#).

### On this page:

- [Upgrade Notes](#)
  - [Supported Browsers](#)
  - [MySQL Enterprise Server Database Issues](#)


- [Problems with FishEye Freezing Unexpectedly](#)
- [Other Notes](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the FishEye Upgrade](#)

## Upgrade Notes

### Supported Browsers

FishEye 2.0 now supports the following browsers:

- Safari 3 (or later)
- FireFox 3 (or later)
- Internet Explorer 7 (or later)

 Internet Explorer 6 is no longer supported.

### MySQL Enterprise Server Database Issues

When migrating your database to MySQL Enterprise Server, you may encounter [problems with very long comments in MySQL](#).

### Problems with FishEye Freezing Unexpectedly

A known issue may cause FishEye 2.0 to [freeze unexpectedly](#).

### Other Notes

- Please note that upgrading from 1.6.x will require an (automatic) full reindex.
- Please note that, unless "[Store Diff Info](#)" is disabled, FishEye's disk space requirements are much greater than in previous versions. On an existing FishEye instance, this will first become apparent when the instance is reindexed. Please also see the disk space recommendations on the [System Requirements](#) page.

## Upgrade Procedure



### Upgrade a test environment first

As always, please test your upgrades in your test environment before rolling into production.

If you are already running a version of FishEye, please follow these instructions on [FishEye Upgrade Guide](#).

### Checking for Known Issues and Troubleshooting the FishEye Upgrade

If something is not working correctly after you have completed the steps above to upgrade your FishEye installation, please check for known FishEye 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 FishEye after we have released the software. In such cases we publish information about the known issues in the FishEye Knowledge Base. Please check the [FishEye 2.0 Known Issues](#) in the FishEye Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the FishEye upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the FishEye 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

[FishEye 2.0 Release Notes](#)

[FishEye 2.0 Changelog](#)

## FishEye 2.0 Beta Release Notes

**FishEye 2.0 Beta** is a public development release leading up to **FishEye 2.0**. For all production use of FishEye, please use [the latest complete release](#).



This page refers to an updated version of the Beta (Beta 3). We strongly recommend all beta users [upgrade to this release](#).



Do not use in production.  
Beta releases should not be used in production environments.



Please also take note of the following information:

- Beta releases are not safe — Beta releases are snapshots of the ongoing FishEye development process. As such:
  - While we try to keep these releases stable, they have not undergone the same degree of testing as a full release.
  - Features in development releases may be incomplete, may change or be removed before the next full release.
  - FireFox 3 and Safari are the only browsers supported.

5 June 2009

## Atlassian presents FishEye 2.0 Beta

FishEye 2.0 adds enhanced JIRA integration and a brand new user interface.

### Highlights of this release:

- [Enhanced JIRA Integration](#)
- [New User Interface](#)
- [People View](#)
- [Plus numerous improvements and bug fixes](#)

Thank you for your interest in FishEye 2.0 Beta.



See the documentation on [Upgrading to this version](#).

### Installing FishEye 2.0 Beta

You can now download the FishEye 2.0 Beta from [here](#). See the documentation on [Upgrading to this version](#).

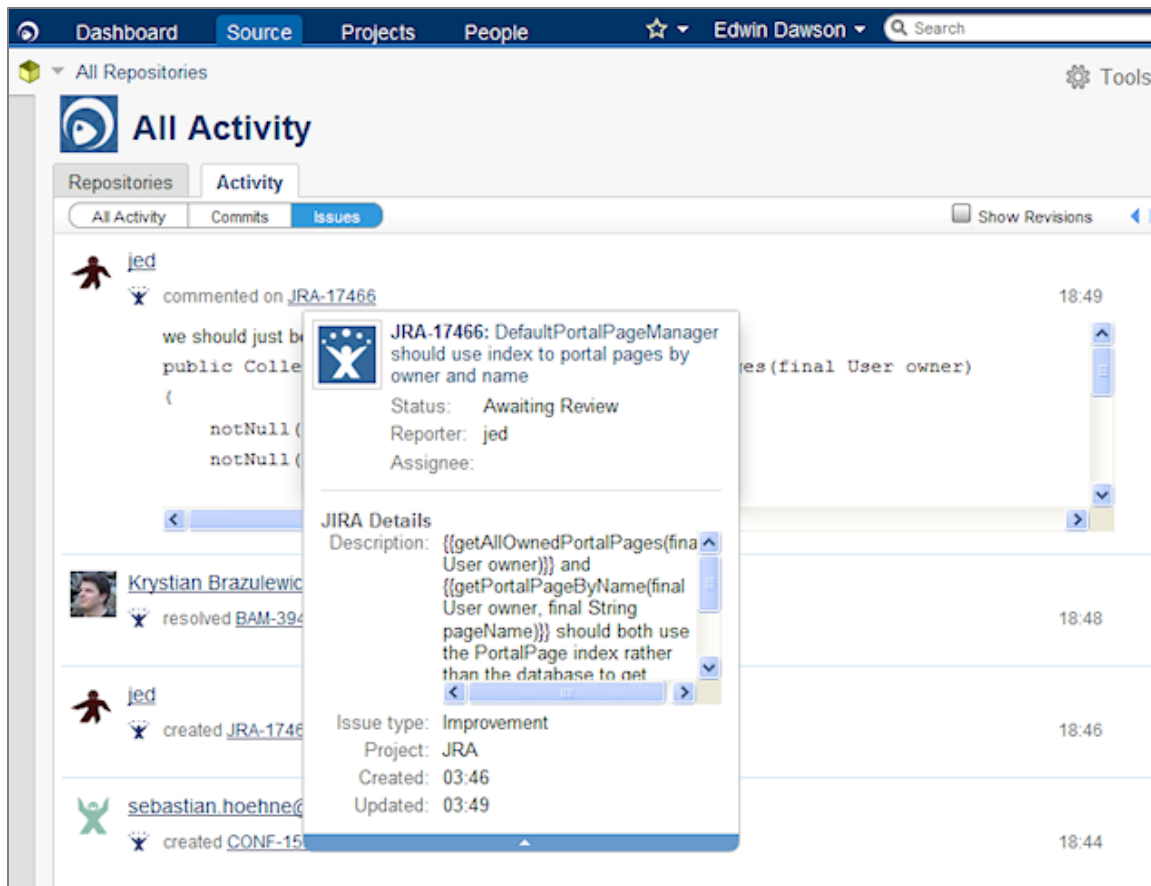
## Highlights of FishEye 2.0 Beta



### Enhanced JIRA Integration

FishEye now has better JIRA integration, allowing you to see regular JIRA updates on your FishEye dashboard, as well as click on issue names to visit the JIRA instance they belong to. See [instructions for JIRA configuration](#).

*Screenshot: Enhanced JIRA Integration*



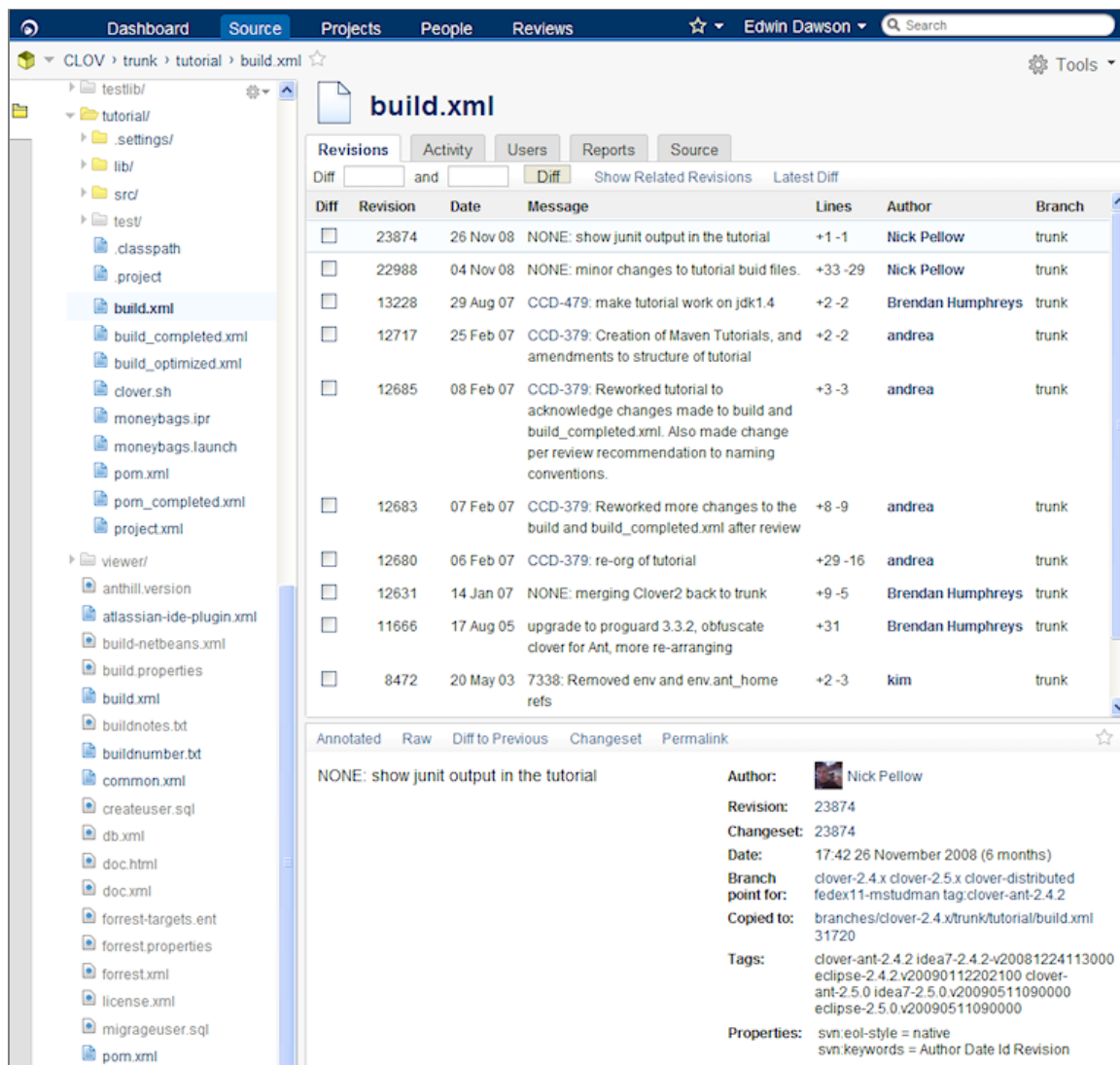
## 2

### New User Interface

Taking on board wide-ranging feedback from customers, the FishEye team has completely revamped the user interface of the product, adding more views on your work and allowing you to access controls from multiple locations, allowing for different work styles.

*Screenshot: New User Interface*





The screenshot shows the FishEye Source View for the file `build.xml` in the path `CLOV > trunk > tutorial > build.xml`. The interface includes a navigation pane on the left showing the project structure, a main pane with tabs for Revisions, Activity, Users, Reports, and Source, and a detailed view at the bottom for the selected revision.

**Revisions Table:**

Diff	Revision	Date	Message	Lines	Author	Branch
<input type="checkbox"/>	23874	26 Nov 08	NONE: show junit output in the tutorial	+1 -1	Nick Pellow	trunk
<input type="checkbox"/>	22988	04 Nov 08	NONE: minor changes to tutorial build files.	+33 -29	Nick Pellow	trunk
<input type="checkbox"/>	13228	29 Aug 07	CCD-479: make tutorial work on jdk1.4	+2 -2	Brendan Humphreys	trunk
<input type="checkbox"/>	12717	25 Feb 07	CCD-379: Creation of Maven Tutorials, and amendments to structure of tutorial	+2 -2	andrea	trunk
<input type="checkbox"/>	12685	08 Feb 07	CCD-379: Reworked tutorial to acknowledge changes made to build and build_completed.xml. Also made change per review recommendation to naming conventions.	+3 -3	andrea	trunk
<input type="checkbox"/>	12683	07 Feb 07	CCD-379: Reworked more changes to the build and build_completed.xml after review	+8 -9	andrea	trunk
<input type="checkbox"/>	12680	06 Feb 07	CCD-379: re-org of tutorial	+29 -16	andrea	trunk
<input type="checkbox"/>	12631	14 Jan 07	NONE: merging Clover2 back to trunk	+9 -5	Brendan Humphreys	trunk
<input type="checkbox"/>	11666	17 Aug 05	upgrade to proguard 3.3.2, obfuscate clover for Ant, more re-arranging	+31	Brendan Humphreys	trunk
<input type="checkbox"/>	8472	20 May 03	7338: Removed env and env.ant_home refs	+2 -3	kim	trunk

**Selected Revision Details (Revision 23874):**

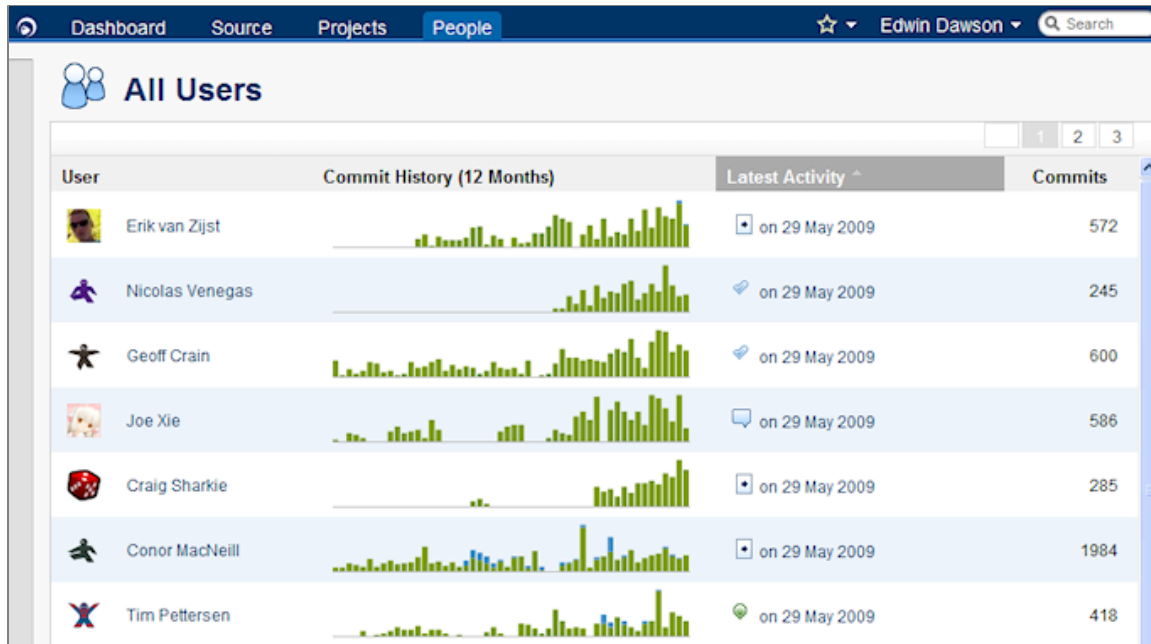
- Author:** Nick Pellow
- Revision:** 23874
- Changeset:** 23874
- Date:** 17:42 26 November 2008 (6 months)
- Branch point for:** clover-2.4.x clover-2.5.x clover-distributed fedex11-mstudman tag:clover-ant-2.4.2
- Copied to:** branches/clover-2.4.x/trunk/tutorial/build.xml 31720
- Tags:** clover-ant-2.4.2 idea7-2.4.2-v20081224113000 eclipse-2.4.2-v20090112202100 clover-ant-2.5.0 idea7-2.5.0-v20090511090000 eclipse-2.5.0-v20090511090000
- Properties:** svn:eol-style = native  
svn:keywords = Author Date Id Revision

3

## People View

You can now view detailed charts and activity statistics people who use your FishEye instance. You can compare number of commits charted over time and other activity in detail.

*Screenshot: People View*



4

### Plus numerous improvements and bug fixes

Alpha support for [Git](#) is activated in the beta but not complete. For more information, see the [Git alpha documentation](#).

Visit our [issue tracker](#) to see the full list of improvements and bug fixes between Beta 2 and Beta 3. We strongly recommend all beta users upgrade to the latest beta release.

See the [Beta Reviewer's Guide](#) for a list of known issues and guidance on the beta experience.

### Upgrading to the FishEye 2.0 Beta

**FishEye 2.0 Beta** is a public development release leading up to **FishEye 2.0**. For all production use and testing of FishEye, please use [the latest official release](#).



Do not use in production.  
Beta releases should not be used in production environments.



Please also take note of the following information:

- Beta releases are not safe — Beta releases are snapshots of the ongoing FishEye development process. As such:
  - While we try to keep these releases stable, they have not undergone the same degree of testing as a full release.
  - Features in development releases may be incomplete, or may change or be removed before the next full release.
  - There will be an upgrade path from the 2.0 Beta to the final release.

This page contains instructions on how to upgrade your FishEye instance to the FishEye 2.0 Beta.

#### Before you Start

- Before upgrading you should always read the [Release Notes](#) for the version you are upgrading to, as well as any versions you are skipping.
- We strongly recommend you make a backup of your data before upgrading FishEye.** Simply make a copy of your `FishEye_install_dir/var/data/` directory.
- Download the FishEye zip file.

## Upgrade Procedure

Your upgrade procedure depends on whether you are using a separate `FISHEYE_INST` directory. Read more about `FISHEYE_INST` in the [Installation Guide](#).

### Method 1: Using a Separate FISHEYE\_INST Directory

1. Shutdown your existing fisheye server.
2. Make a backup of your `FISHEYE_INST` directory.
3. Extract the new FishEye version to a directory, leaving your `FISHEYE_INST` environment variable set to its existing location.
4. Start FishEye from the new installation.
5. Follow any version-specific instructions found in the [Release Notes](#).

### Method 2: No Separate FISHEYE\_INST Directory

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

1. Extract the new FishEye instance into a directory such as `/NEW_FISHEYE/`.
2. Delete the `/NEW_FISHEYE/var` directory.
3. Shut down the old FishEye instance if it is running.
4. Copy `/OLD_FISHEYE/config.xml` to `/NEW_FISHEYE/`.
5. Copy (or move) the `/OLD_FISHEYE/var` directory to `/NEW_FISHEYE/var`.
6. If you have a Cenqua-issued FishEye license, copy your `fisheye.license` to `/NEW_FISHEYE/`. (Atlassian-issued licenses are included within `config.xml`.)
7. Start FishEye from the new installation.
8. Follow any version-specific instructions found in the [Release Notes](#).

### Method 3 - Without a FISHEYE\_INST Directory, but would like to set one up

1. Shut down the old FishEye instance if it is running.
2. Set up the `FISHEYE_INST` [environment variable](#), then create the `FISHEYE_INST` directory on your filesystem.
3. Copy the `/OLD_FISHEYE/config.xml` to `/FISHEYE_INST`.
4. Copy the `/OLD_FISHEYE/var` directory to `/FISHEYE_INST`.
5. Extract the new FishEye archive into a directory such as `/NEW_FISHEYE/`.
6. Start FishEye from the new installation by running `NEW_FISHEYE/bin/run.sh`. (Use `run.bat` on Windows).
7. 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 `FISHEYE_HOME` and `FISHEYE_INST`. Check your `FISHEYE_INST` is pointing to the right directory.

## FishEye 2.0 Beta Reviewer's Guide

**FishEye 2.0 Beta** is a public development release leading up to **FishEye 2.0**. For all production use and testing of FishEye, please use [the latest official release](#).



Do not use in production.  
Beta releases should not be used in production environments.



Please also take note of the following information:

- Beta releases are not safe — Beta releases are snapshots of the ongoing FishEye development process. As such:
  - While we try to keep these releases stable, they have not undergone the same degree of testing as a full release.
  - Features in development releases may be incomplete, or may change or be removed before the next full release.
  - FireFox 3 and Safari are the only browsers supported.

Thank you for your interest in the FishEye 2.0 Beta. This page contains some direction on what is ready for testing in the beta, what the known issues are and how you can submit feedback.

### Known Issues

This is a list of known issues with the beta; please do not raise requests related to these as solutions for them are already under way.

- Timestamp information will be destroyed; if you install the beta release as an upgrade on your existing FishEye instance data, then every timestamp in the database will be reset to midnight and that information is irreversibly lost. The date information remains intact.
- Clicking on the calendar date picker from the Changelog filter makes the filter disappear, without applying the constraints.

## Features Ready For Testing

The following features in the FishEye 2.0 Beta are relatively hardened and using these thoroughly will help contribute to the final product.

- External Database Support; You can now store Crucible's internal data (reviews and associated data) in a MySQL Enterprise Server or PostgreSQL database, as an alternative to the built-in HSQLDB. Note: Fisheye's repository cache's and the Fisheye user data is still stored on disk using infinity db.
- Stars; add colleagues, reviews and files to your favourites list, then view updates related to them as a feed.
- Charlietars; the automatically generated Crucible avatars should work smoothly. Also, you can sign up to Globally Recognised Avatars (<http://www.gravatar.com>) to upload a profile image and use that instead of the Charlie image.

## Submitting feedback

To submit feedback on the FishEye 2.0 Beta, please use the [FishEye Forums](#).

## JIRA Integration in FishEye 2.0 Beta

**FishEye 2.0 Beta** is a public development release leading up to **FishEye 2.0**. For all production use and testing of FishEye, please use [the latest official release](#).



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  - Features in development releases may be incomplete, or may change or be removed before the next full release.

This page contains instructions for setting up JIRA integration in FishEye.



**JIRA** is Atlassian's issue tracking product, which can be used to manage projects and associated work.



 Before you begin: Ensure that you configure your JIRA instance to [enable sub-tasks](#), [enable unassigned issues](#) and [allow Remote API access](#). The instructions on this page have been tested with JIRA 3.13.4.

*On this page:*

- Opening the Administration Screen for JIRA Integration
- Adding a New JIRA Server
- Editing Default JIRA Server Mappings
- Operations on Existing Servers
  - Edit settings for an existing JIRA server
  - Edit mappings for an existing JIRA server
  - Delete an existing JIRA server

JIRA issues can be viewed in the main Dashboard view in FishEye. This requires you to enter details on the required JIRA server(s) via the FishEye administration screens.

## Opening the Administration Screen for JIRA Integration

To set up JIRA integration, open the Administration screen and then click '**JIRA Servers**' under the '**Global Settings**' sub-menu on the left navigation bar. The '**View JIRA Servers**' administration page opens.

*Screenshot: The View JIRA Servers Page*

Name	Url	Subtask ID	Subtask Resolution Action ID	Subtask Resolution ID	Allow Unassigned	Activity Stream Provider	Trusted Application	
jac	https://jira.atlassian.com	6	2	6	true	true	false	Edit Mappings Delete

Add a JIRA Server | Edit default JIRA Server mappings

On the View JIRA Servers page, you can carry out a number of operations as listed on this page.

Adding a New JIRA Server

To add a new JIRA server from the View JIRA Servers page, click 'Add JIRA Server'.

The 'Add JIRA Server' page opens.

Screenshot: The Add JIRA Server Page

Add JIRA Server

Server Details

Name:

URL:

Default Authentication

Username:

Password:

Options

☐ Include in Activity Streams

☐ Authenticate as Trusted Application

Test

Save


Cancel

A number of fields and options must be filled out or selected on this page. See the table below for information on each field.

Option	Type	Description	Required
Name	Text Field	A descriptive name for the JIRA server.	Yes
URL	Text Field	The Internet address of the JIRA server.	Yes
Allow Unassigned	True/False Button	Allow unassigned sub-tasks.	No
Username	Text Field	The username of an account on the JIRA instance (All activity that takes place will be attributed to this user, unless using the Trusted Application setting).	Yes
Password	Text Field	The password for the account on the JIRA instance.	Yes
Include in Activity Streams	Check Box	Allows JIRA information to appear on the Dashboard.	No
Authenticate as Trusted Application	Check Box	Allows the system to interface with JIRA and let users log on with their own accounts (and use their own accounts on the JIRA server. See <a href="#">complete FishEye documentation</a> and <a href="#">complete JIRA documentation</a> .	No

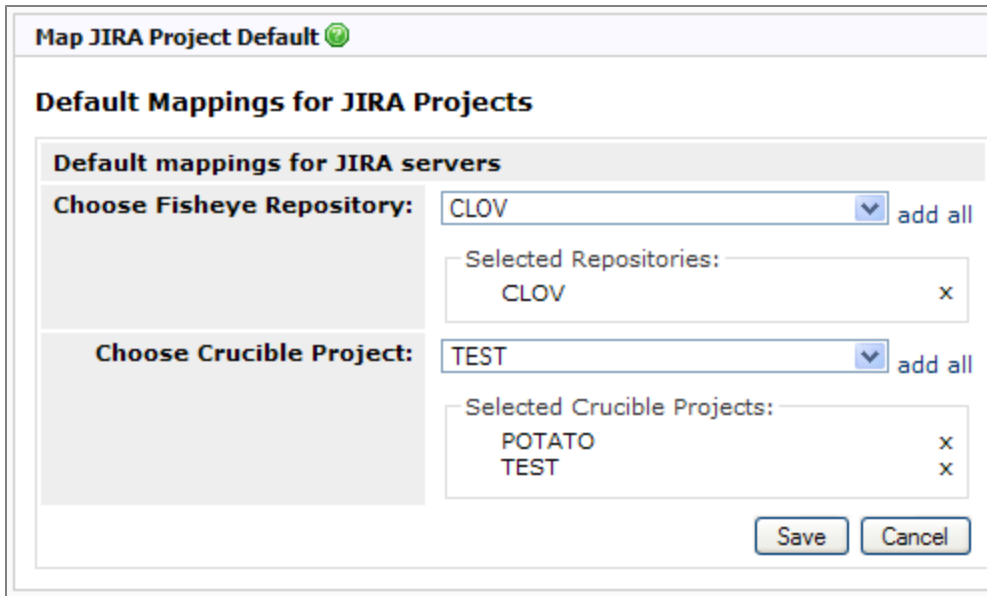
Once you've filled out the necessary fields, click 'Test' to ensure that your details are correct. If you have a positive message return from the test, click 'Save'.


Editing Default JIRA Server Mappings

 This setting enables the FishEye feature that shows JIRA information in a dynamic window when you hover the mouse over a JIRA issue key in FishEye. It will also turn every issue key into a hyperlink to that issue in FishEye.

To enable this feature, click 'Edit Default JIRA Server Mappings' from the View JIRA Servers page. The 'Map JIRA Project Default' page opens.


Screenshot: The Default JIRA Server Mappings Page




**Map JIRA Project Default** 


**Default Mappings for JIRA Projects**

**Default mappings for JIRA servers**


**Choose Fisheye Repository:** CLOV  [add all](#)


Selected Repositories:

CLOV 

**Choose Crucible Project:** TEST  [add all](#)

Selected Crucible Projects:


POTATO 

TEST 

[Save](#) [Cancel](#)

On this page, select the FishEye repositories or Crucible Projects that you wish to associate with all the JIRA servers you have configured for use in FishEye. You can click **'add all'** to quickly include them all in this category. You can remove individual items by clicking the small 'X' marks.

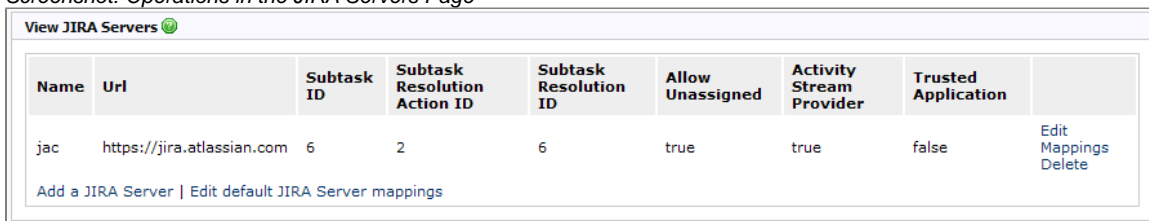
Once you've finished, click **'Save'**.

 You should disable any existing FishEye [linkers](#) you have set up for JIRA, as they will override this feature and prevent the dynamic dialog box from appearing when you mouse over an issue.

### Operations on Existing Servers

Once you have configured an existing JIRA server, there are three main operations you can carry out on it: **'Edit'**, **'Mappings'** and **'Delete'**. These options appear on the far right of the screen.

*Screenshot: Operations in the JIRA Servers Page*



Name	Url	Subtask ID	Subtask Resolution Action ID	Subtask Resolution ID	Allow Unassigned	Activity Stream Provider	Trusted Application	
jac	https://jira.atlassian.com	6	2	6	true	true	false	<a href="#">Edit</a> <a href="#">Mappings</a> <a href="#">Delete</a>

[Add a JIRA Server](#) | [Edit default JIRA Server mappings](#)

### Edit settings for an existing JIRA server

When you click **'Edit'**, you can adjust any of the general settings you configured when you first added the server.

### Edit mappings for an existing JIRA server

When you click **'Mappings'**, a page is loaded that is almost identical to the **'Default Mapping'** screen, but allows you to choose mappings only for that specific JIRA server.

### Delete an existing JIRA server

Clicking **'Delete'** will remove the server from the list.

## Git Alpha in FishEye 2.0 Beta

**FishEye 2.0 Beta** is a public development release leading up to **FishEye 2.0**. For all production use and testing of FishEye, please use [the latest official release](#).



Do not use in production.  
Beta releases should not be used in production environments.



Please also take note of the following information:

- Beta releases are not safe — Beta releases are snapshots of the ongoing FishEye development process. As such:
  - While we try to keep these releases stable, they have not undergone the same degree of testing as a full release.
  - Features in development releases may be incomplete, or may change or be removed before the next full release.

This page contains information about the alpha pre-release support for [Git 1.6](#), which is activated (but not complete) in the FishEye 2.0 Beta.

### **Introduction and Disclaimer**

Git Alpha support is included in this beta release for Git 1.6. Atlassian stresses that this is alpha level support which means the following:

1. There is no admin support yet (no UI controls for the feature).
2. There are missing features - notably author line count support.
3. Subsequent betas are likely to require re-indexing (although Git indexing is reasonably fast).
4. Problems are to be expected. Do not use this on production instances.

However, feedback (see below) is appreciated and your comments will contribute to the quality of the final product.

### **Configuration**

To configure a Git 1.6 repository in FishEye, you will need to stop FishEye and edit your `config.xml` file directly. An example repository configuration follows.

```
<repository name="test" enabled="true">
  <git location="git://git.example.com/repo.git"/>
  <security>
    <required-groups/>
  </security>
</repository>
```

The `<repository>` tag must directly follow the `</repository-defaults>` ending tag, or another ending tag for a repository (`</repository>`). If you do not place the repository tag correctly your application will not start up and is likely to throw an error like the following:

```
ERROR - Errors parsing /Path/To/FISHEYE_INST/config.xml:
ERROR - at line 373: Expected elements 'backup@
http://www.cenqua.com/fisheye/config-1 check-for-updates@
http://www.cenqua.com/fisheye/config-1 quicksearch-weights@
http://www.cenqua.com/fisheye/config-1 database@
http://www.cenqua.com/fisheye/config-1' instead of 'repository@
http://www.cenqua.com/fisheye/config-1' here in element config@
http://www.cenqua.com/fisheye/config-1
```

### **Submitting Feedback**

We're very interested in your feedback. The best place for submitting feedback is the [FishEye forums](#).

## **FishEye 1.6 Release Notes**



FishEye 2.5 has now been released. Read the [Release Notes](#).

**23 September 2008**



For details on minor releases since FishEye 1.6, see the [FishEye Changelog](#).

## **Atlassian presents FishEye 1.6**

**FishEye release 1.6** is a major release that adds functional and performance improvements. FishEye 1.6 has a faster, more powerful Quick Search which includes change indexing. It also now supports assigning administration privileges to user accounts or groups. This new FishEye is faster, containing both tune-ups of the core code as well as new features enhancing use in teams. Finally, there's also been additions made to the technology powering FishEye extensions, for third-party developers.

#### Highlights of this release:

- FishEye Search Enhancements
- Multiple Admin Users
- Remote API Improvements
- Changes to Charts
- Performance Tweaks
- Numerous improvements and bug-fixes



#### Upgrading to FishEye 1.6

You can now download FishEye from [here](#). If upgrading from a previous version, please follow the [Upgrade Guide](#).

## Highlights of FishEye 1.6



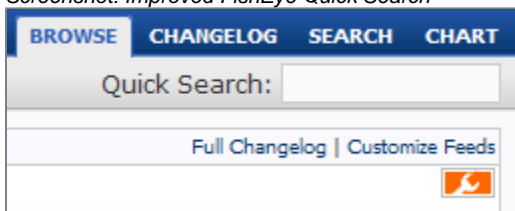
### FishEye Search Enhancements

FishEye now indexes the content of every commit. This enables searching on all content in your Subversion, Perforce or CVS repository. Furthermore, you can search for added or deleted content. [Read more](#).

#### Quick Search

FishEye's Quick Search has been completely rewritten for better accuracy and performance; Quick Search results are now returned instantaneously regardless of the repository size. Result types are better weighted to increase their relevance. Results have content preview with hit highlighting and are properly weighted, taking the date into account. Changeset results are returned based on content modifications, additions and deletions. FishEye now indexes the full content of every commit and will return changesets for content hits. Path and filename search is now an order of magnitude faster on large repositories. Finally, support for keywords in search enables you to quickly get the result you are looking for. For example, entering `cs:1902` will take you straight to changeset 1902.

*Screenshot: Improved FishEye Quick Search*



#### General Search

You can now search specifically for added and deleted content. This enables you to quickly find when code was deleted or modified. For instance, you can search for a method name to find out what it was previously called.

#### Advanced Search and EyeQL

All of the improvements made to Quick Search and General Search are available when using Advanced Search and EyeQL.

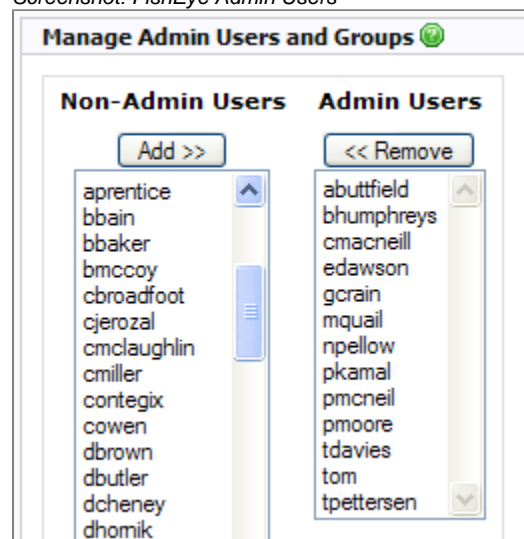




## Multiple Admin Users

FishEye now allows the Administrator to grant other FishEye users Admin status. These Admin Users can also carry out any of the tasks that may have required the Administrator password. Admin privileges can be conferred using built-in or external directory group membership. [Read more.](#)

*Screenshot: FishEye Admin Users*



3

## Remote API Improvements

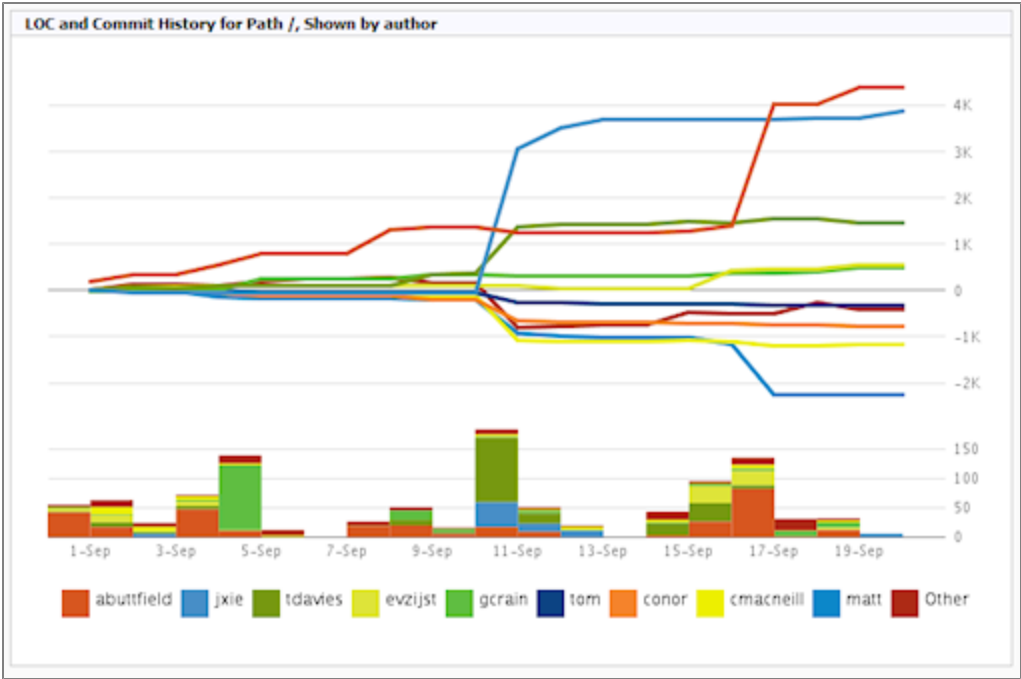
Enhancing the Remote API, the FishEye team have incorporated a **maxreturns** option, which lets you control the quantity of returned results. Also the range of functions is extended with the new **ancestor return** clause and **history search** items. Finally, Perforce data is now exposed in the remote API, allowing Perforce jobs to be accessed via remote API calls. [Read more.](#)

4

## Changes to Charts

FishEye 1.6 has a new **change** chart type. The change chart shows relative net line activity for a period. It is intended to give a quick "zoomed in" view of activity by extension, author, or subdirectory for a short period. Change charts start from a linecount of 0 at the start date for comparative purposes. [Read more.](#)

*Screenshot: FishEye's Change Chart*



5

Perforce Performance Tweaks





















Perforce users can now specify a changelist to start scanning from. For some users, this will dramatically improve indexing time and runtime performance by ignoring irrelevant historical data. This is achieved with one simple configuration option called 'skip labels'.





















6

Numerous improvements and bug-fixes

JIRA Issues (68 issues)			
Key	Summary	Priority	Status
FE-638	webwork 2.2.6 is not setting svnsymbolic in editrepository		Closed
FE-483	Ensure all user preferences are in user profile		Closed
FE-494	Add a link to the changeset on the annotation page		Closed
FE-532	upgrade to webwork 2.2.7 (fixes security problem)		Closed
FE-500	Expose Changeset "Fixes Perforce Jobs" data in EyeQL (and REST api)		Closed
FE-617	for new svn repositories, default for t/b/t should be None		Closed
FE-658	Chart constraint dropped on second level subdir		Closed
FE-521	CLONE -StackOverflow		Closed

FE-566	diff-to-previous on annotate page 404s		 Closed
FE-550	improve catch-all svn symbolic regex		 Closed
FE-552	Have an error page rather than 403 page when SVN permission denied		 Closed
FE-393	Use a single regularexpression to catch all tag/branch/trunk patterns		 Closed
FE-296	Get Id button does not work in Trusted Application screen under IE		 Closed
FE-554	Add LIMIT clause to EyeQL documentation		 Closed
FE-559	Add 'ancestor' return clause to EyeQL		 Closed
FE-541	Allow limiting of number of results returned by remote API		 Closed
FE-578	"Search just <repo:parh>" breadcrumb links are borked - escapes parameter separators		 Closed
FE-549	Search tokenizes on underscores		 Closed
FE-536	"List Repositories" method in the remote API documentation		 Closed
FE-562	resolve springsource/log4j versioning problem		 Closed
FE-648	Disabling the check box, next to the config.xml file still sends the config.xml file via Admin > SysInfo > Raise a support request		 Closed
FE-378	review multithreading of RevCacheReader		 Closed
FE-389	only ask group to do group-membership tests for crowd users		 Closed
FE-434	show match-in-context in quicksearch (hit highlighting)		 Closed
FE-435	Quick-search redo UI requirements		 Closed
FE-438	Do content searches in quicksearch		 Closed
FE-338	Please add ability to specify initial revision from which to begin initial scan		 Closed
FE-584	Create the ability for customers to create support cases via Fisheye		 Closed
FE-436	Improved Quick Search		 Closed
FE-301	IndexOutOfBoundsException when opening annotated view		 Closed
FE-503	com.cenqua.fisheye.svn.SvnCache is throwing NPEs		 Closed
FE-504	command line reindex doesn't work when loopback is not 127.0.0.1		 Closed
FE-288	Repositories still occasionally get stuck in Stopping state		 Closed

FE-674	RSS Feed Title is missing space		 Closed
FE-600	TODO appearing in UI for comments		 Closed
FE-511	NPE when configuration file was not found		 Closed
FE-668	"Edit repository details" throws an NPE when a p4 repo has invalid info		 Closed
FE-524	upgrade to trusted apps 1.0, remove seraph dep		 Closed
FE-605	added files appear as empty diffs		 Closed
FE-675	RSS Feed Entries have almost no information in title		 Closed
FE-515	Allow P4 label scanning to be skipped		 Closed
FE-505	Retrieve Password		 Closed
FE-437	improve performance of filename searches in quicksearch		 Closed
FE-650	Documentation: New 'Advanced' mode hides attributes in Add Repository screen		 Closed
FE-467	Calculating the correct version for diffs doesn't work for perforce		 Closed
FE-630	Bundle SAL 1.1 in FishEye		 Closed
FE-540	"Data Types and Structures" information in the Remote API page		 Closed
FE-479	next and previous links on diff and annotation pages		 Closed
FE-82	Re-index request: show message "Could not stop repository within 20 seconds. Re-index aborted."		 Closed
FE-555	Documentation: Add maxReturn parameter to remote API		 Closed
FE-491	Hide optional fields in repo setup		 Closed
FE-495	Self Signup layout borked		 Closed
FE-636	Make update polling configurable in admin section		 Closed
FE-643	"Request Garbage Collection" link on SysInfo/Support page redirects badly		 Closed
FE-649	Cannot specify starting revision when creating perforce repo. The option only appears in the edit screen		 Closed
FE-651	Weight quicksearch results by date		 Closed
FE-428	Check for updates option		 Closed
FE-482	SVN repositories default to UTF-8		 Closed

FE-596	CSS syntax highlighting omissions		 Closed
FE-513	Redirected to javax.servlet.ServletException 500 error page when accessing to a disabled/stopped repository		 Closed
FE-319	Can't access /admin/ when logged in via Crowd		 Closed
FE-607	Create documentation for new feature, create support issues via fisheye Admin > Sysinfo screen		 Closed
FE-685	Automatic user management from Crowd		 Closed
FE-687	RSS Feed entry items truncate differently to 1.5.x		 Closed
FE-464	upgrade to latest spring (at least 2.5.4)		 Closed
FE-487	Remove the colon trailing repository names on the Fisheye home page		 Closed
FE-529	Add an "Add Repository" link to the top of the repository list page in admin screen		 Closed
FE-678	Link to file view in quicksearch results		 Closed

## FishEye 1.6 Changelog

This page contains information about the FishEye 1.6 minor releases.



Please read the [FishEye 1.6 Upgrade Guide](#) before upgrading to any of the minor releases below.



### On this page:




























- [From 1.6.5.a to 1.6.6](#)
- [From 1.6.4 to 1.6.5.a](#)
- [From 1.6.3 to 1.6.4](#)
- [From 1.6.2 to 1.6.3](#)
- [From 1.6.1 to 1.6.2](#)
- [From 1.6.0 to 1.6.1](#)

### From 1.6.5.a to 1.6.6

#### 10th February 2009

This release is a bugfix release which address the following issues:

JIRA Issues (19 issues)			
Key	Summary	Priority	Status
FE-1759	Handle log message rewriting		 Closed
FE-1481	Unable to open connection to Subverion version 1.6.1		 Closed
FE-1141	Print Stack Trace after exception in fisheye command line		 Closed
FE-1086	Fisheye does not store the update time of p4 branches in the db, which means that upon a restart each branch is scanned for updates despite the fact it is not updated		 Closed
FE-1081	illegal argument exception on all xwiki charts		 Closed
			

FE-1078	EyeQL p4:jobsFixed return field produces invalid XML when used via REST		Closed
FE-1046	WrappedRequest does not delegate to super for all get* methods when the private params map is not null		 Closed
FE-845	When viewing a changeset, perforce reports that there has been number of lines added/removed but "No Change" is report under the file rather than the diff.		 Closed
FE-583	Chart the change in lines of code over a period		 Closed
FE-508	A problem occurred starting your repository: Repository is not stopped (com.cenqua.fisheye.rep.RepositoryHandle\$StateException)		 Closed
FE-499	Broad search never returns results before timeout		 Closed
FE-493	Trigger FishEye incremental scan via Email, or asychonous message queue'ing mechanism		 Closed
FE-473	Unable to exclude a file		 Closed
FE-343	Option for lines of code in all /trunk subdirectories		 Closed
FE-250	What happens when SVN operation times out?		 Resolved
FE-194	NPE when restarting repository		 Closed
FE-191	FishEye update method: SVN hook script		 Closed
FE-127	Sort repository lists on screens alphabetically		 Closed
FE-63	Document custom content capability		 Closed











**From 1.6.4 to 1.6.5.a****22 December 2008**



































This release contains a number of improvements and bug fixes.



If you are using Perforce with a case-insensitive file system (such as in Windows), then you will need to re-index your repository after upgrading to this release.

Full list of issues fixed in this release:



JIRA Issues (22 issues)			
Key	Summary	Priority	Status
FE-1155	Different Chinese Encoded Characters in Annotated view & Diff view		 Closed
FE-917	Author constraints with usernames that have "\" fail		 Closed
FE-895	Using request.getPathInfo() may not be accurate when servlet is called from <jsp:include>		 Closed
FE-894	Generate Support Zip via the Administration console		 Closed
FE-888	If SVNKit cannot authenticate successfully, it goes into a tight loop retrying		 Closed

FE-878	Changing display name doesn't work		 Closed
FE-875	document system.properties		 Closed
FE-873	Documentation about Case Insensitive Perforce users		 Closed
FE-860	add the ability to set the max HTTP header size via a system property		 Closed
FE-857	Add doco for "path != word"		 Closed
FE-856	Add "path = word" to eyeql		 Closed
FE-855	Improve the performance of watch manager		 Closed
FE-852	Diffs link shows up in HTML changeset emails for binary files		 Closed
FE-844	Improve handling of Perforce encoding - especially Shift-JIS		 Closed
FE-841	Files saved in another encoding beside UTF-8 (example shift-JIS) does not render properly in fisheye for perforce repositories.		 Closed
FE-840	Email notification takes longer times to be sent		 Closed
FE-833	Case of Sub Directories box doesn't match depot		 Closed
FE-830	Need to update svnkit that resolves an NPE to do with NTLM authentication.		 Closed
FE-827	Reading p4 annotate fails with "NumberFormatException" when customers annotate output does not begin with <changeset>:		 Closed
FE-807	Update the jsvn scripts to point to the new 1.2.1r5011.atlassian.jar version of svnkit		 Closed
FE-754	Getting "Not Inserting Revision blah because a parent a parent directory is missing		 Closed
FE-624	Indexing changesets which contain a large number of changes (e.g. brach copy, etc) can cause out of memory errors		 Closed

**From 1.6.3 to 1.6.4****20 November 2008**

This release contains bug fixes and minor improvements, and includes the new plugin points developed for [AtlasCamp 2008](#).

Full list of issues fixed in this release:

JIRA Issues (16 issues)			
Key	Summary	Priority	Status
FE-819	Mail log doesn't show SMTP transcript in debug mode		 Closed
FE-808	Sub Directories Ajax not refreshing		 Closed
FE-802	FishEye no longer correctly detects \ characters in url constraints		 Closed
			

FE-801	follow up js memory problems		Closed
FE-799	Rendering takes a long time when there are large number of files to display and these files have a number of revisions		Closed
FE-795	Please don't show: "You have 29 days before your maintenance expires ..."		Closed
FE-791	allow quicksearch to look for specific types of results		Closed
FE-782	Review use of classes copied mainly from lucene		Closed
FE-727	"Cannot open file: it does not appear to be a valid archive" error thrown for tarball downloads made in IE		Closed
FE-661	Spruce up Add Repository screen		Closed
FE-538	Deleting crowd-based user while the user is logged in results in user account being re-created on logout		Closed
FE-537	Deleting user while the user is logged in results in NPE when user tries to access his profile		Closed
FE-361	Sexy chart type switching		Closed
FE-241	Same time commits wrongly ordered in changelog		Closed
FE-151	FishEye continues to return 304 NOT MODIFIED for pages even after user logs out completely		Closed
FE-145	Browse page for trunk directory shows that a file is deleted, when deletion was only on branches		Closed

**From 1.6.2 to 1.6.3****5 November 2008**

This release rolls together several improvements and bug fixes.










































- FishEye now indexes diff text for CVS repositories.
- Quicksearch improvements.
- Improve support for local SVN 1.5 repositories.


To take advantage of FishEye's diff text search or historical file content quick search functions, you will need to re-index your repository.

Full list of issues fixed in this release:

<b>JIRA Issues (32 issues)</b>			
<b>Key</b>	<b>Summary</b>	<b>Priority</b>	<b>Status</b>
FE-786	escape urls in quicksearch		Closed
FE-785	Exception displayed in Crucible revisions - Not enough revisions to diff		Closed
FE-777	Document access to LOC data via JSON		Closed
FE-775	file search box not working		Closed
FE-774	quick search with csid presents broken HTML in results		Closed
FE-768	rework from CR-FE-678 CRUC-658		Closed



FE-749	[admin] missing "Synchronise users with Crowd" on view section		 Closed
FE-747	Add event system to FishEye		 Closed
FE-741	Ognl will set the context to some value such as "ognl.OgnlContext@649af4c6" when you EditServerSettings and the context was originally empty		 Closed
FE-730	implement CVS diff search		 Closed
FE-729	FishEye should ship out-of-the-box JIRA linkers		 Closed
FE-726	Include fisheye.out as part of the files that are sent via Raise Support Request in Administration > SysInfo/Support		 Closed
FE-723	quicksearch jump to exact file match		 Closed
FE-721	update Atlassian licensing to version 2.0		 Closed
FE-714	Don't enable starttls by default		 Closed
FE-711	Some of the seach functionality we utilised in Fisheye no longer works in version 1.6.1		 Closed
FE-710	Provide Fisheye url for given file - remote API		 Closed
FE-709	Cannot view a stopped repository		 Closed
FE-708	highlighting in keywords should be done manually		 Closed
FE-707	Strange svn blame issue		 Closed
FE-706	Misc quicksearch improvements		 Closed
FE-703	Quick search: respect quotes		 Closed
FE-697	When there are lots of branches, not all path results are being returned		 Closed
FE-694	Logout results in 500 Server error		 Closed
FE-689	Delete group doesnt work, even with no users in it		 Closed
FE-672	A certain set of steps in svn will cause the error "Not inserting revision path/to/file@9 because a parent directory is missing"		 Closed
FE-551	Add support for local SVN 1.5 repositories using pure java client		 Closed
FE-457	Syntax Highlighting is wrong (keywords match within identifiers - redux)		 Closed
FE-419	loc data should be available as raw data		 Closed
FE-305	stdcxx indexing problems(s)		 Closed

FE-267	Document setting up a CVS mirror with rsync		 Closed
FE-240	"1 more file in changeset" is useless		 Closed

**From 1.6.1 to 1.6.2**

This version number was skipped, in order to keep FishEye and Crucible version numbers in parallel. There is no FishEye release with a version of 1.6.2.

**From 1.6.0 to 1.6.1****24 September 2008**

This is a bug fix release.

- [FE-700](#) An initial import of a subversion repository will generate a NPE in some circumstances.

## FishEye 1.6 Upgrade Guide

Below are some important notes on upgrading to **FishEye 1.6**. For details of the new features and improvements in this release, please read the [FishEye 1.6 Release Notes](#) and [FishEye 1.6 Changelog](#).

**On this page:**

- [Upgrade Notes](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the FishEye Upgrade](#)

**Upgrade Notes**

- To take advantage of the new diff contents search in Quick Search, you will need to re-index your repository.
- Crowd 1.3 users will need to upgrade to Crowd 1.4.4 or later due to an incompatibility with this version of FishEye.

**Upgrade Procedure****Upgrade a test environment first**

As always, please test your upgrades in your test environment before rolling into production.

If you are already running a version of FishEye, please follow these instructions on [FishEye Upgrade Guide](#).

**Checking for Known Issues and Troubleshooting the FishEye Upgrade**

If something is not working correctly after you have completed the steps above to upgrade your FishEye installation, please check for known FishEye 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 FishEye after we have released the software. In such cases we publish information about the known issues in the FishEye Knowledge Base. Please check the [FishEye Knowledge Base](#) for known issues and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the FishEye upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the FishEye 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**

[FishEye 1.6 Release Notes](#)  
[FishEye 1.6 Changelog](#)

## FishEye 1.5 Release Notes



FishEye 2.5 has now been released. Read the [Release Notes](#).

15 April 2008



For details on minor releases since FishEye 1.5, see the [FishEye Changelog](#).

### Atlassian presents FishEye 1.5

**FishEye release 1.5** is a major release that adds the ability to present historical, per-author line count information. This new suite of graphs show how much each user has contributed to the code base, over time.

#### Highlights of this release:

- Per-author lines of code statistics
- Charting improvements
- Customisable email templates
- Numerous improvements and bug-fixes



#### Upgrading to FishEye 1.5

You can now download FishEye from [here](#). If upgrading from a previous version, please follow the [Upgrade Guide](#).

### Highlights of FishEye 1.5



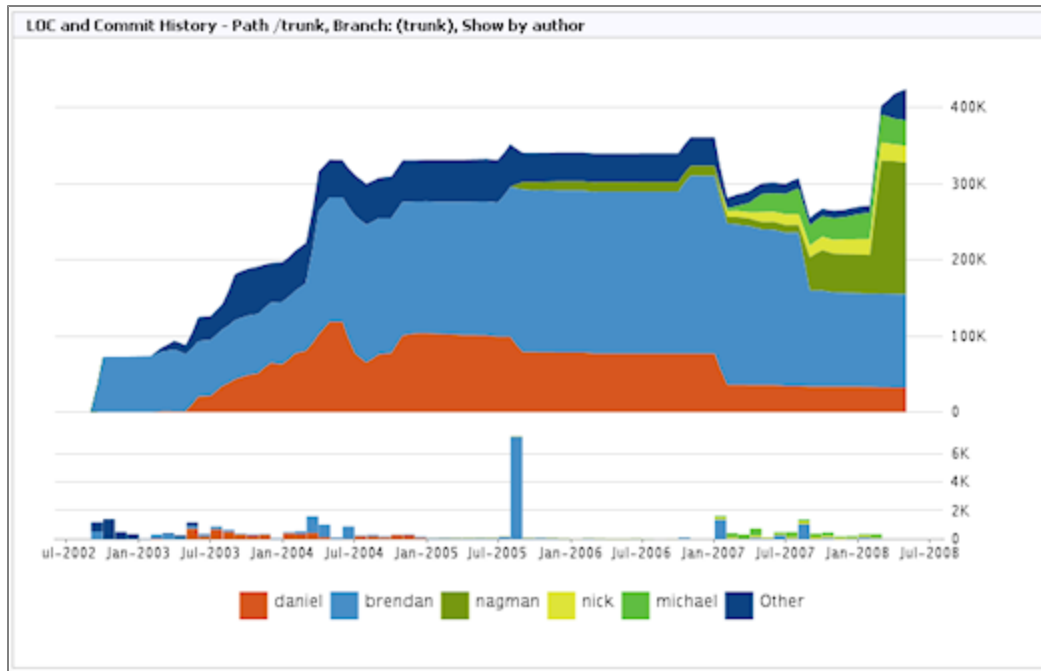
#### Per-author lines of code statistics

Statistics for lines of code is now broken down per-author, providing an all-new level of detail. This allows you to see how many lines of code were contributed to your project by each author, over time.



This requires changing a setting and re-scanning existing repositories. See the [FishEye Upgrade Guide](#) for more information.

*Screenshot: FishEye Per-Author Line Count Chart*



2

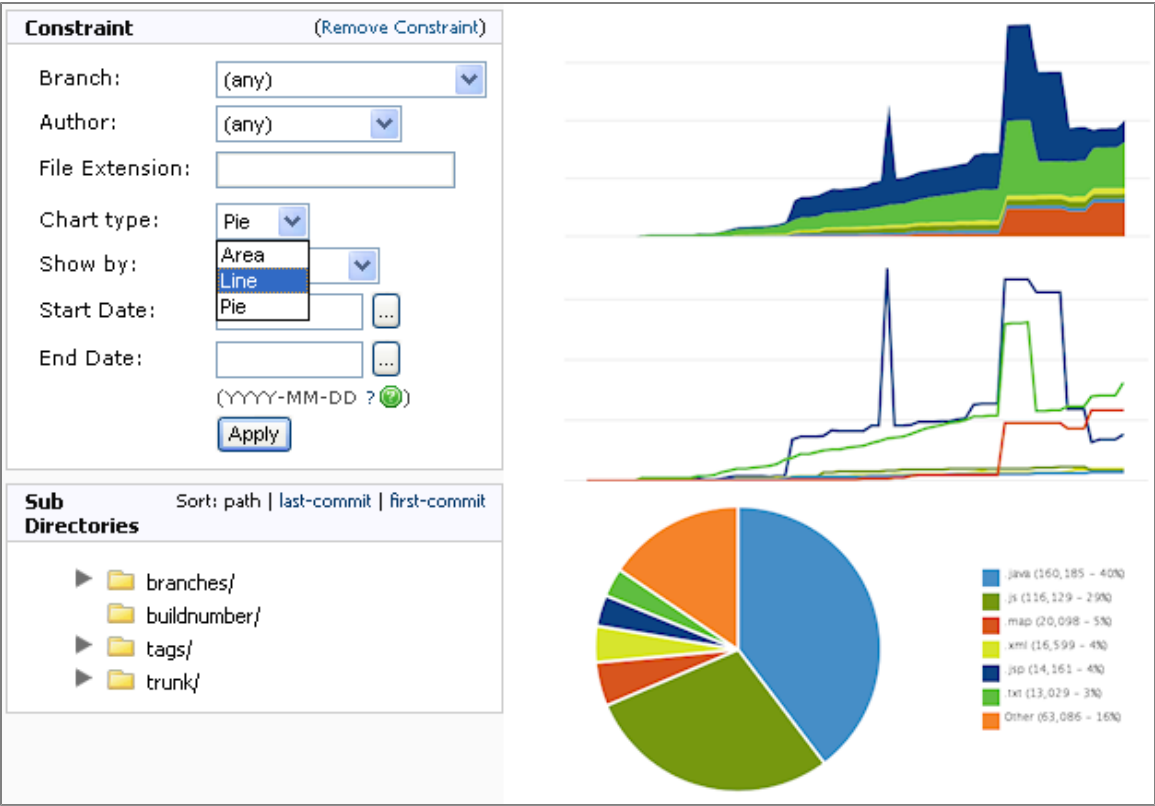
## Charting improvements

The line graphs in FishEye have been improved, providing a better view of lines of code statistics from your project, as well as showing how this has grown.

Screenshot: FishEye Charts Tab



Screenshot: FishEye Chart Examples



3












































































Customisable email templates

You can now customise the content and appearance of email notifications that are sent to FishEye users. For example you can append a legal disclaimer, alter the subject line or provide custom header text for all messages.

4

Numerous improvements and bug-fixes

JIRA Issues (56 issues)			
Key	Summary	Priority	Status
FE-2507	Manually request incremental scan from commandline	↑	Closed
FE-2506	CLONE -FishEye occasionally does not get the author and/or comment for change sets	↓	Closed
FE-394	Can't open page on Multithreading without giving credentials	↑	Closed
FE-382	Unable to index repository due to: org.tigris.subversion.javahl.ClientException: svn: PROPFIND of '/path': 403 Forbidden (https://subversion..company.com)	↑	Closed
FE-358	Improve determination of first revision in an SVN repo	↑	Closed
FE-344	Improving the chart page in fisheye	↑	Closed

FE-336	Random order of operations on Trusted Applications			Closed
FE-335	Default Certificate Timeout value for Trusted Applications should not be 0			 Closed
FE-333	WARN - error parsing file with regexp			 Closed
FE-331	User credentials are case-sensitive			 Closed
FE-326	FishEye always sorts with oldest first			 Closed
FE-325	Add syntax highlighting for ActionScript (.as) files			 Closed
FE-323	Manually request incremental scan from commandline			 Closed
FE-321	FishEye occasionally does not get the author and/or comment for change sets			 Closed
FE-320	Showing files as directories in tags directories			 Closed
FE-317	Improve email notification handling for commit comments with newlines			 Closed
FE-312	Unable to display Japanese Character "Mojibake" under UTF-8 encoding			 Closed
FE-307	LOC data should respect repository case sensitivity			 Closed
FE-303	fix single-sign-off problem with Crowd			 Closed
FE-302	Upgrade crowd support to 1.3			 Closed
FE-299	Upgrade Seraph to 0.36			 Closed
FE-298	Upgrade Seraph to 0.36			 Closed
FE-295	Ability to view full source code when creating a patch review			 Closed
FE-290	FishEye/Crucible not correct supporting unlimited-user licenses			 Closed
FE-287	Replace EDU.oswego concurrency classes with java.util.concurrent			 Closed
FE-282	P4 Files of type "unicode" appear as binary			 Closed
FE-278	Cannot edit or delete Trusted Application			 Closed
FE-273	Upgrade to Cenqua Licensing 1.6			 Closed
FE-269	Editing repository details does not allways ends with a "you need to restart repository..." message			 Closed
FE-265	Include appropriate licence/notice files			 Closed
FE-264	When Crowd integration is enabled, Trusted Application requests should use the Crowd Db when determining if users exist			 Closed
				

FE-263	XML-RPC calls generate responses non-conforming to XML-RPC spec			Closed
FE-258	Upgrade to seraph 0.36 when released			Closed
FE-242	autoadd login with crowd and max users creates spinning browser			Closed
FE-237	StackOverflow			Closed
FE-235	Don't "Index Content" on every server restart			Closed
FE-234	Add REST API docs to Confluence			Closed
FE-229	Duplicate LDAP users created with differing case			Closed
FE-224	Handle dependencies with Maven 2			Closed
FE-218	ensure this NPE doesn't crash the watch mechanism			Closed
FE-210	doc: tag names in FE, eyeql help			Closed
FE-209	404 page instead of diff view			Closed
FE-200	In Search Results, don't list every page			Closed
FE-197	Create a pom.xml for Fisheye/Crucible			Closed
FE-185	Add web resource plugin module support			Closed
FE-182	Lots of StackOverflow Errors in Log			Closed
FE-181	Multithread initial repository scan too			Closed
FE-172	Email feed unsubscribe & default format			Closed
FE-170	capitalisation on 'User Profile' page is a little inconsistent			Closed
FE-164	Fisheye does not seem to recognize mac os line ending \r when displaying diffs			Closed
FE-155	Documentation unclear on interaction of include/exclude & tag/branch configuration			Closed
FE-139	Please add the ability to watch a single file			Closed
FE-122	Allow Repositories to be indexed in parallel.			Closed
FE-116	FishEye is returning a bad response for a particular annotated file			Closed
FE-62	Admin screens for custom homepage and footer content			Closed
FE-5	[P4] need to consider "utf8" etc file types			Closed

## FishEye 1.5 Changelog

This page contains information about the FishEye 1.5 minor releases.



Please read the [FishEye 1.5 Upgrade Guide](#) before upgrading to any of the minor releases below.

### On this page:

- [From 1.5.3 to 1.5.4](#)
- [From 1.5.2 to 1.5.3](#)
- [From 1.5.1 to 1.5.2](#)
- [From 1.5.0 to 1.5.1](#)

### From 1.5.3 to 1.5.4

#### 1 August 2008

This release contains minor improvements and bug fixes.

Errors were reported by the JIRA trusted connection.

- APP\_UNKNOWN; Unknown Application: {0}; ["confluence:4557196"]

JIRA Issues (21 issues)			
Key	Summary	Priority	Status
FE-662	Customization of GUI	↑	Resolved
FE-593	Certain Input Files causes excessive memory usage in Syntax Highlighting	↑	Closed
FE-579	Directories mistakingly get indexed as files	↑	Closed
FE-577	Force stop of a DiffFetcher thread in case of exceptions	↑	Closed
FE-571	Username & groups that contain characters such as '&' could cause problems when viewing such groups/users via the UI due to the fact that the urls are not encoded.	↑	Closed
FE-568	ArrayIndexOutOfBoundsException in CalculatedBucketGraphXY	↑	Closed
FE-565	In system information include java version and os information	↑	Closed
FE-561	Allow admins to turn on debugging via the admin UI	↑	Closed
FE-560	Watches still not deleted	↑	Closed
FE-558	Stop Fisheye repository does not work	↑	Closed
FE-557	Crowd's crowd-integration-client-1.4.4.jar is not compatible with Fisheye 1.5.x	↑	Closed
FE-546	-300,000 LOC?!?!?	↑	Closed
FE-542	force-lowercase option does not always appear in admin screens	↑	Closed
FE-517	java.lang.ArrayIndexOutOfBoundsException in ChangelogServlet-dolmageMap	↓	Closed
FE-475	"java.lang.IncompatibleClassChangeError" with Crowd's client 1.4 in Fisheye/Crucible	↓	Closed



FE-474	FishEye to handle/skip obliterated changelist in Perforce		Closed
FE-472	Customized display settings set back to default values after relogin		Closed
FE-402	Using scannow command or Scan Now button should trigger scanning ASAP		Closed
FE-306	To handle SVN operation hang during FishEye scanning		Closed
FE-280	Still see watch email log messages for deleted users (adds users back too!)		Closed
FE-215	Combined Author/Age Histogram labels are broken		Closed

**From 1.5.2 to 1.5.3****23 June 2008**

This release contains bug fixes.

JIRA Issues (2 issues)			
Key	Summary	Priority	Status
FE-512	FishEye may stop sending emails after a backup		Closed
FE-478	"Bad format for response:jira" error when attempting to get ID from JIRA 3.12.3		Closed

**From 1.5.1 to 1.5.2****27 May 2008**

This release contains bug fixes.

Note: This release of FishEye corrects to some Perforce line counts when storing diffs. If you have been having this problem, you will need to ensure that the store-diffs setting is set to "true" and do a full re-index of your repository.

JIRA Issues (16 issues)			
Key	Summary	Priority	Status
FE-485	update doco re p4:jobid regex		Closed
FE-481	Support regex p4:jobid eyeql search clause		Closed
FE-476	author blame error on svn file replace		Closed
FE-465	[mvn] upload jarjar 1.0rc7 into 3rdparty		Closed
FE-455	Charting Colors Broken		Closed
FE-441	Watches are not being deleted		Closed
FE-439	Author info/Store diff info Warning when disabled		Closed
FE-431	Email watch notification does not properly parse the checkin comments for links (to jira/cru for example)		Closed
FE-429	DownloadableClasspathResource passes null content type to GzipFilter		Closed
FE-383	Linecount graph calculation performance improvements		Closed
FE-374	number render bug in blame legends		Closed

FE-359	Date constraint should do more than clip		Closed
FE-285	Fisheye fails to search for files of a type		Closed
FE-252	Problem getting diff information from subversion repos		Closed
FE-223	Problem getting diff information for rev2232		Closed
FE-130	Stop script hit error after set FISHEYE_ARGS		Closed

## From 1.5.0 to 1.5.1

**24 April 2008**

This release contains bug fixes.

JIRA Issues (21 issues)			
Key	Summary	Priority	Status
FE-421	update doco wrt to "enable/disable SSO" in crowd		Closed
FE-415	upgrade svnkit to 1.1.7		Closed
FE-413	[crowd] logged out after 2 minutes when using another "incompatible" crowd app with FishEye/Crucible		Closed
FE-412	Add ability to turn off SSO in FishEye/Crucible's crowd support		Closed
FE-409	"Using the fisheye screens" doc page out of date		Closed
FE-408	in subdir breakdown charts the ". (this dir)" category is not self-explanatory		Closed
FE-406	"Files in Dir" entry in subdir chart		Closed
FE-404	Setting diff style to side-by-side in profile doesn't stick		Closed
FE-403	incrementalIndexThreads and initialIndexThreads are incorrectly stored in config.xml		Closed
FE-392	debug logging overly verbose in 1.5		Closed
FE-390	User display preference setting in profile not saved		Closed
FE-386	Investigate UI Preference Behaviour		Closed
FE-376	Old charting code can probably be removed now		Closed
FE-372	charting title is wrong		Closed
FE-369	clicking (eg) Changelog from Chart tab loses directory constraint		Closed
FE-360	Small Line History Chart Tweaks		Closed
FE-357	Create an admin interface to edit the username force-lowercase configuration in security		Closed
FE-350	admin screen for force-lowercase		Closed
FE-346	static content is not being gz encoded		Closed
FE-277	Using "Test path" button on "Add repository" page saves the data and closes the form		Closed
FE-26	FishEye Quick Start Guide		Closed

## FishEye 1.5 Upgrade Guide

Below are some important notes on upgrading to **FishEye 1.5**. For details of the new features and improvements in this release, please read the [FishEye 1.5 Release Notes](#) and [FishEye 1.5 Changelog](#).

**On this page:**

- [Upgrade Notes](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the FishEye Upgrade](#)

### Upgrade Notes

- Per-Author Line Counts require the '**Store Diff**' setting to be true, but this will be false for existing repositories. Existing repositories will require this setting to be changed to 'true', then a full re-scan of that repository must be done. This is not essential to continue using your FishEye instance — it is only required for per-author graphs on the FishEye chart page.
- Upgrading from 1.2.5 (or earlier) or 1.3beta8 (or earlier) will force a complete **re-scan of CVS repositories**.
- Upgrading to this version will force a complete **re-scan of P4 repositories**.
- Upgrading from 1.1.x (or earlier) or 1.2beta2 (or earlier) will force a complete **re-scan of SVN repositories**.

### Upgrade Procedure



#### Upgrade a test environment first

As always, please test your upgrades in your test environment before rolling into production.

If you are already running a version of FishEye, please follow these instructions on [FishEye Upgrade Guide](#).

### Checking for Known Issues and Troubleshooting the FishEye Upgrade

If something is not working correctly after you have completed the steps above to upgrade your FishEye installation, please check for known FishEye 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 FishEye after we have released the software. In such cases we publish information about the known issues in the FishEye Knowledge Base. Please check the [FishEye Knowledge Base](#) for known issues and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the FishEye upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the FishEye 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

[FishEye 1.5 Release Notes](#)  
[FishEye 1.5 Changelog](#)

## FishEye 1.4 Release Notes



FishEye 2.5 has now been released. Read the [Release Notes](#).

### 5 December 2007



For details on minor releases since FishEye 1.4, see the [FishEye Changelog](#).

The Atlassian FishEye team is delighted to present FishEye 1.4.

**FishEye 1.4** is a major release which focuses on integration, user management and performance.

The updated FishEye Administration interface provides support for groups and improved user management screens. The new built-in integration with Atlassian [Crowd](#) extends your authentication and authorisation capabilities. You can now include users and groups from one or more Crowd directories, and provide single sign-on (SSO) across Atlassian products plus any other applications that support SSO.

The latest releases of FishEye and Crucible work together even more tightly than before, allowing you to see at a glance which files/changesets have been reviewed. You can also search within FishEye for files that have not yet been reviewed.

### Highlights of this release:

- [Enhancements to user management](#)
- [Crowd/SSO support](#)

- Crucible integration
- Enhancements to JIRA plugin
- Plus over 30 improvements and bug-fixes

#### Responding to your feedback:

★ 19 new feature requests/improvements implemented

Your [votes and issues][<http://jira.atlassian.com/browse/FE>] help us keep improving our products, and are much appreciated.

#### Upgrading to FishEye 1.4

You can now download FishEye from [here](#). If upgrading from a previous version, please follow the [Upgrade Guide](#).

## Highlights of FishEye 1.4

1

### Enhancements to user management

In FishEye 1.3.7, we introduced support for [public signup](#) (self-registration). Now in release 1.4:

- Improved user interface makes user administration easier.
- [Groups](#) are supported.
- [Renaming of users](#) is supported.
- Read the [documentation](#).



The screenshot shows a web interface titled "Edit User Groups: matt". It is divided into two main sections: "Available Groups" and "Groups".

- Available Groups:** Contains a button labeled "Join >>" and a list box containing the text "team-2".
- Groups:** Contains a button labeled "<< Leave" and a list box containing the text "team-1" and "team-3".

At the bottom of the interface, there is a link labeled "Back to matt".

2

### Crowd/SSO support

- Inbuilt integration with Atlassian Crowd for authentication and authorisation.
- Users and groups in your Crowd directories now supported in FishEye.
- Single sign on (SSO) support via Crowd e.g. you can now sign in just once to access Atlassian JIRA, FishEye, Crucible, Confluence and Bamboo, and any other applications which support SSO.
- Read the [documentation](#).

### Crowd Authentication Settings

**Application name:**

**Application password:**

**Crowd URL:**

**Auto-add:** ☒ Create a FishEye user on successful login  
☐ Users must be added to FishEye manually

## 3

### Crucible integration

Closer integration between FishEye 1.4 and Crucible 1.2:

- Links to existing Crucible reviews on the FishEye screens. So you can see which files/changesets have been reviewed.
- Search for Crucible data via EyeQL. For example, you can search for files that have not yet been reviewed.

fisheye
Help BROWSE CHANGELOG SEARCH

**ant:/**

Quick Search:

**Line History** hide

**Constraint**

Branch:

Author:

Tag:

Date:

**Sub Directories** Sort: path | last-commit | first-commit

CVSROOT/  
 docs/  
 lib/  
 proposal/  
 space/  
 spec/  
 src/  
 webpage/  
 whiteboard/utah/  
 xdocs/

**Recent Changelog** Full Changelog | Customize Feeds

- MAIN:mbenson:20050831194104** by **mbenson** 31 August 2005, 14:41:04 -0500 (2 years 1 month ago) 

Document fix for:  
PR: 36302

WHATSNEW 1.854 (+3 -0) diffs
- MAIN:mbenson:20050831193914** by **mbenson** 31 August 2005, 14:39:14 -0500 (2 years 1 month ago) 

Wrap System.out in a KeepAliveOutputStream  
PR: 36302

src/main/org/apache/tools/ant/taskdefs/optional/ssh/SSHExec.java 1.22 (+2 -1) diffs
- MAIN:mbenson:20050831153543** by **mbenson** 31 August 2005, 10:38:18 -0500 (2 years 1 month ago) 

Incorrect argument used for version label in PVCS task  
PR: 36359

WHATSNEW 1.853 (+3 -1) diffs

src/main/org/apache/tools/ant/taskdefs/optional/pvcs/Pvcs.java 1.33 (+1 -1) diffs
- MAIN:mbenson:20050825192722** by **mbenson** 25 August 2005, 14:27:22 -0500 (2 years 1 month ago) 

Leftover "copy"->"move"  
PR: 36311

docs/manual/CoreTasks/move.html 1.22 (+1 -1) diffs

**Files** Deleted files: Hide | Show

NAME	REV	AGE	AUTHOR
<b>.cvsignore</b> sync	1.10.2.1  (ANT_16_BRANCH)	3 years 4 months	peterreilly
<b>ant.properties.sample</b> Removed stray ^M	1.3	6 years 7 months	donaldp
<b>bootstrap.bat</b> date update	1.53	2 years 8 months	stevell

## 4

**Enhancements to JIRA plugin**

The new version 1.2 of the [FishEye-for-JIRA plugin](#) includes some useful improvements:

- New 'FishEye' tab for JIRA issues and projects.
- Improved ability to create a Crucible review from the 'FishEye' tab within a JIRA issue.
- The 'FishEye' tab now shows review status (if applicable).
- Ability to connect your JIRA instance to *multiple* FishEye instances.
- Ability to configure the FishEye plugin via the AppLinks plugin.
- The FishEye plugin is now fully internationalisable.

## 5

**Plus over 30 improvements and bug-fixes**

JIRA Issues (40 issues)			
Key	Summary	Priority	Status
FE-163	DbException: Problem getting diff information for rev1		Closed
FE-156	Bug/feature request link at bottom of screens is wrong		Closed
FE-149	eyeql textbox too big in safari3.0.4		Closed
FE-148	Ability to delete user groups		Closed
FE-147	Subversion revision indexing fails		Closed
FE-146	Upgrade to new version of yahoo library		Closed
FE-141	Hit NPE when trying to add new user (built-in)		Closed
FE-138	Upgrade atlassian-extras dependency to 1.10		Closed
FE-136	suggestion: in the FishEye Admin menu, consider change 'Misc' to 'System Administration'		Closed
FE-133	Cascading documentation links within FishEye		Closed
FE-132	Report FishEye and/or API version via the API		Closed
FE-128	Make online help link to CAC documentation		Closed
FE-126	UI preferences (showing/hiding graph, directory sort order) don't work if user isn't logged in		Closed
FE-121	Excessively long debug and error log entry when using AJP auth, automatic fisheye user creation, and exceeding license limit.		Closed
FE-120	NPE when using ajp for authentication		Closed
FE-119	constraint in email watches can become corrupted by url escaping		Closed

FE-118	per-rep linkers don't necessarily trump default linkers when they match the same string			Closed
FE-114	Regex syntax highlighting StackOverflowError			Closed
FE-111	FishEye should ignore FISHEYE_HOME variable			Closed
FE-108	Syntax Highlighting is wrong (keywords match within identifiers)			Closed
FE-103	ability to rename users			Closed
FE-100	allow usernames to contain the @ character			Closed
FE-99	Linker Update requires a restart			Closed
FE-98	groups-of-users support			Closed
FE-97	Subdirectories don't show up in sort orders other than "path"			Closed
FE-93	Change FishEye's default port			Closed
FE-92	Improve PHP syntax highlighting (was WARN - error parsing file with regexp )			Closed
FE-86	Default linkers don't warn that restart is required			Closed
FE-81	Make email optional for self-registered users			Closed
FE-73	Fisheye javadoc needs to be uploaded to docs.a.c			Closed
FE-72	Document "File History View Mode"			Closed
FE-71	Incorrect spelling 'Seach' on Simple Search screen			Closed
FE-70	Allow Crowd/SSO credentials to be used in the remote API			Closed
FE-68	Fisheye needs to support Crowd SSO			Closed
FE-58	RESTful admin api			Closed
FE-57	Add 'reindex repository' command to FishEyeCtl interface			Closed
FE-54	Diff colours too dark & noisy			Closed
FE-51	add listTagsForRevision() to remote api			Closed
FE-21	Index & expose P4 job information via remote API			Closed
FE-1	Branch dropdown breaks page layout when branch names are massive			Closed

## FishEye 1.4 Changelog

This page contains information about the FishEye 1.4 minor releases.



Please read the [FishEye 1.4 Upgrade Guide](#) before upgrading to any of the minor releases below.

#### On this page:

- [From 1.4.2 to 1.4.3](#)
- [From 1.4.1 to 1.4.2](#)
- [From 1.4 to 1.4.1](#)

#### From 1.4.2 to 1.4.3

#### 7 February 2008

This release contains bug fixes.

JIRA Issues (35 issues)			
Key	Summary	Priority	Status
FE-309	Trusted Application not stored properly in configuration file		Closed
FE-304	Improve documentation on recommended hardware and software (JVM) settings for FishEye		Closed
FE-284	login error and logout pages return blank page		Closed
FE-272	Linker regex application is case-sensitive		Closed
FE-266	Support protocols such as pserver for remote CVS repositories		Closed
FE-262	trusted app admin screen doesn't support https:// urls		Closed
FE-259	certificateTimeout isn't saved to config.xml		Closed
FE-253	Adding large repository causes all other repositories to stop indexing		Closed
FE-249	Cancelling SVN Operation due to timeout: what operation?		Closed
FE-247	<properties> in config.xml not passed to custom authenticators		Closed
FE-225	List public FishEye instances in FishEye documentation		Closed
FE-217	Linecount graphs give incorrect results on antlr perforce database		Closed
FE-211	Linkers don't work in fisheye		Closed
FE-208	Linkers setting in Repository Defaults ignored		Closed
FE-205	CLONE -Custom Authenticator's init method is being passed an empty Properties object		Closed
FE-195	tmp folder fills up disk space rapidly		Closed
FE-186	Connect remote CVS		Closed
FE-169	Username is shown instead of Display Name under AJPv13		Closed
FE-162	whenever i start fisheye my net stops working, i could not open other web pages except fisheye		Closed
FE-124	Subscribe to changelog RSS using permissions does not work as expected		Closed
FE-83	Update links etc to new FishEye docs on CAC		Closed
FE-75	Review FishEye docs on CAC		Closed
FE-74	Export the XML, PDF and HTML versions and upload to ALLDOCS space		Closed
FE-60	Ability to customize Fisheye welcome message		Closed
FE-36	New Diff UI (in 1.3.5) Is A Step Down		Closed
FE-35	apply new left-nav to Bamboo and Clover spaces		Closed



FE-33	Point online help links to new FishEye doc space		Closed
FE-30	Left-hand nav panel needs adaptation to Confluence 2.6 styles		Closed
FE-28	Move 'Improve FishEye Scan Performance' guide to FishEye permanent documentation space		Closed
FE-27	Switch to Atlassian Logos		Closed
FE-25	Move Fisheye docs to Confluence		Closed
FE-22	After Fisheye forums are moved, update all links in docs		Closed
FE-18	Allow FishEye to run inside Tomcat		Closed
FE-14	Woke up to stack overflow in fisheye		Closed
FE-2	I installed latest Crucible and fisheye.access = md5:... appeared to public frontend		Closed

#### From 1.4.1 to 1.4.2

This release contains some minor improvements and bug fixes.

- **Trusted Application Support**  
FishEye now allows you to set up trusted communications with other Atlassian applications. At this point, the JIRA FishEye plugin supports Trusted Applications. The JIRA FishEye plugin can request information from FishEye on behalf of the currently logged-in user, and FishEye will not ask the user to log in again or to supply a password. Previously FishEye would have used a single 'system' account to determine permissions. Now, FishEye/Crucible can apply the correct permission settings for the logged-in user.
- FishEye now bundles the SVNkit Client as the default library for interfacing with Subversion. This streamlines FishEye configuration for Subversion users.
- FishEye now pre-calculates line-graph data. This should improve performance in the rendering of line graphs.
- Hyphens are now allowed in project key names.

JIRA Issues (7 issues)			
Key	Summary	Priority	Status
FE-207	upgrade JFree chart		Closed
FE-203	NPE in api when calling getRevision() on a tag directory		Closed
FE-193	Confirm recent svnkit/javahl still works with subversion server 1.1.x		Closed
FE-187	clarify how groups are associated with repositories		Closed
FE-177	Add Application Trust Capability to Fisheye and Crucible		Closed
FE-171	please update help-paths.properties to accommodate some page-renumbering		Closed
FE-55	File has empty history in FishEye		Closed

#### From 1.4 to 1.4.1

This is a small bug-fix release.

JIRA Issues (1 issues)			
Key	Summary	Priority	Status
FE-178	CursorLengthException when indexing P4		Closed

## FishEye 1.4 Upgrade Guide

Below are some important notes on upgrading to **FishEye 1.4**. For details of the new features and improvements in this release, please read the [FishEye 1.4 Release Notes](#) and [FishEye 1.4 Changelog](#).

On this page:

- [Upgrade Notes](#)

- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the FishEye Upgrade](#)

### **Upgrade Notes**

- If you were using the old Crowd Authenticator plugin in FishEye 1.3.x, you need to switch to the in-built Crowd Authenticator in FishEye 1.4+. Please see the [Crowd documentation](#) for details.
- As of version 1.3, FishEye requires a **JVM version 1.5** or later. Previously, 1.4+ was required.
- Upgrading from 1.2.5 (or earlier) or 1.3beta8 (or earlier) will force a complete **re-index of CVS repositories**.
- Upgrading to this version will force a complete **re-index of P4 repositories**.
- Upgrading from 1.1.x (or earlier) or 1.2beta2 (or earlier) will force a complete **re-index of SVN repositories**.

### **Upgrade Procedure**



#### **Upgrade a test environment first**

As always, please test your upgrades in your test environment before rolling into production.

If you are already running a version of FishEye, please follow these instructions on [FishEye Upgrade Guide](#).

### **Checking for Known Issues and Troubleshooting the FishEye Upgrade**

If something is not working correctly after you have completed the steps above to upgrade your FishEye installation, please check for known FishEye 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 FishEye after we have released the software. In such cases we publish information about the known issues in the FishEye Knowledge Base. Please check the [FishEye Knowledge Base](#) for known issues and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the FishEye upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the FishEye 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

[FishEye 1.4 Release Notes](#)

[FishEye 1.4 Changelog](#)

## **FishEye 1.3 Release Notes**



FishEye 2.5 has now been released. Read the [Release Notes](#).

#### **1 August 2007**



For details on minor releases since FishEye 1.3, see the [FishEye Changelog](#).

FishEye 1.3 contains many bug fixes and improvements, and adds support for [Perforce](#).

### **Upgrading FishEye**

You can now download FishEye from [here](#). Information on installing FishEye can be found [here](#). If upgrading from a previous version, please follow the [Upgrade Guide](#).

### **Highlights of FishEye 1.3**

- Support for the [Perforce](#) version control system.
- SVN properties are now shown.
- Quicksearch now searches for changeset ids.
- New 'mixed' chart on annotation pages, showing author-over-time breakdown.
- Side by side diffs (1.3.1)

- Refer to the [changelog](#) for more details.

## FishEye 1.3 Changelog

This page contains information about the FishEye 1.3 minor releases.



Please read the [FishEye 1.3 Upgrade Guide](#) before upgrading to any of the minor releases below.

### On this page:

- [From 1.3.7 to 1.3.8](#)
- [From 1.3.6 to 1.3.7](#)
- [From 1.3.5 to 1.3.6](#)
- [From 1.3.4 to 1.3.5](#)
- [From 1.3.3 to 1.3.4](#)
- [From 1.3.2 to 1.3.3](#)
- [From 1.3.1 to 1.3.2](#)
- [From 1.3 to 1.3.1](#)
- [From 1.3beta9 to 1.3](#)
- [From 1.3beta8 to 1.3beta9](#)
- [From 1.2.5 to 1.3beta8](#)

### From 1.3.7 to 1.3.8

This release provides performance and bug fix improvements for Subversion and Perforce indexing including:

- Perforce determination of line counts is much more efficient
- Handle cases where the content of a file has been removed from a Perforce depot
- Change Subversion indexing strategy for repositories whose initial check-in is a large commit or copy
- Fix error which broke line count graph caching
- correct issues dealing with changes to tagged files
- correct issue with property changes in German locale when using SvnKit

### From 1.3.6 to 1.3.7

This is a small bug-fix release ([list of issues](#)).

### From 1.3.5 to 1.3.6

This is a small bug-fix release. It addresses a stack-overflow problem for some configurations.

### From 1.3.4 to 1.3.5

**Note:** Upgrading to this version will force a complete re-index of P4 repositories.

#### Improvements

- User-friendly UI-based license entry and maintenance.
- Syntax highlight files when displaying a diff.
- Add Ruby and Coldfusion syntax highlighting. Look for custom syntax files in `FISHEYE_INST/syntax`.
- EyeQL enhancement: a new clause to match on changeset ids `csid = "1234"`.
- EyeQL enhancement: more return types such as `isAdded` and `isBinary`.

#### Fixes

- Many performance improvements when scanning Perforce repositories.
- Changelog missing some changesets in CVS when there is a path constraint.
- Handle svn diff output in languages other than English.
- Fix problem with long directory names wrapping in the directory tree.

### From 1.3.3 to 1.3.4

- Fix compatibility between Cenqua and Atlassian licenses.
- [SVN] Convert slash / characters to a hyphen - in tag/branch names.
- [SVN] Better handling of precedence of tag/branch/trunk symbolic rules.
- [SVN] Add a manual test field in Admin screens to test symbolic rule setup.
- [P4] Add ability to configure Perforce updater in Admin screens.
- [P4] Some improvements when scanning Perforce repositories.

### From 1.3.2 to 1.3.3

This build allows FishEye to be used with Atlassian licenses.

### From 1.3.1 to 1.3.2

- Fix potential XSS vulnerability in quick-search page.
- Fix problem sending watch emails where the commit message contains a tab character.
- [SVN] Add support for requesting a rescan between given revisions.
- [SVN] Improve scan performance, and better handle add operations from outside FishEye's view of the repository.
- [SVN] Improve scan performance by not fetchings diffs for binary files.
- [SVN] Timeout settings now configurable via Admin screens.
- [SVN] Display SVN properties at the directory level.
- [P4] Address problem fetching labels for files.
- Fix Javascript problem in IE when logging into the Admin screens.

### From 1.3 to 1.3.1

- The truncate diff setting should now work in Internet Explorer.
- Fix issue with duplicate paths in tarball generation.
- [P4] An empty <p4-config> element would cause an error.
- Unknown repos now return a 404 status rather than 500.
- [SVN] Handle empty content files when using SvnKit.
- [CVS] Allow \$ in author names.
- FishEye now uses the tabwidth setting in each user's profile.
- [SVN] Fix issue where FishEye incorrectly states that no username was supplied.
- Fix IE7 directory spacing problem.
- Implement side-by-side diffs.

### From 1.3beta9 to 1.3

- Various improvements when scanning Perforce repositories.
- [SVN] Fix for problem with diff hyperlinks to re-added files.
- Fix problem where some paths were not correctly html-escaped.
- Fix 'NoSuchFieldError deferredExpression' problem on some platforms (due to a 3rd-party library being included twice).
- Ensure LDAP connections are closed in all situations.

### From 1.3beta8 to 1.3beta9



Upgrading to 1.3beta9 will force a complete re-index of CVS repositories.

- Upgrade JVM requirement to 1.5+.
- Upgrade embedded HTTP engine (Jetty). This fixes some bugs and improves performance under load.
- Fix a performance problem (esp. under load). "Recent Changes" pages should return much faster now.
- Fix a very slow memory leak when FishEye is under load (for example, when it is being crawled by a web spider).
- Fix a problem where daily-emails would break after a backup was performed.
- [CVS] Fix an error introduced when FishEye builds its repository cache. This requires a full re-scan of CVS repositories.
- [CVS] Fix a problem where FishEye could not parse in RCS files author names that were only numerical digits.
- [CVS] Fix bug when creating tar/zip files from a branch constraint.
- [SVN] FishEye will now timeout long running SVN connections that have blocked.
- [SVN] Fix problem where FishEye was not storing SVN properties correctly.
- [SVN] Fix a bug when entering a revision beyond the current last revision in quick search.

### From 1.2.5 to 1.3beta8

- [SVN] When importing a repository from a given start revision, you can now nominate if it should import the state of the repository at that revision, or just import changes made after that revision.
- [CVS] Fix a bug where FishEye would send out watch emails for historical changesets after a re-index.
- Performance improvements to changeset page when one of the files in the changeset has a very large history.
- [SVN] Some changes that improve the speed of the initial-scan for some SVN repositories.
- Fix a bug when FishEye generates RSS feed urls constrained by author, when the author has an "@" in their name.
- [SVN] Fix a bug when a tag is deleted (as part of a move).

## FishEye 1.3 Upgrade Guide

Below are some important notes on upgrading to **FishEye 1.3**. For details of the new features and improvements in this release, please read the [FishEye 1.3 Release Notes](#) and [FishEye 1.3 Changelog](#).

On this page:

- [Upgrade Notes](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the FishEye Upgrade](#)

### **Upgrade Notes**

- As of version 1.3, FishEye requires a **JVM version 1.5** or later. Previously, 1.4+ was required.
- Upgrading from 1.2.5 (or earlier) or 1.3beta8 (or earlier) will force a complete **re-index of CVS repositories**.
- Upgrading to this version will force a complete **re-index of P4 repositories**.
- Upgrading from 1.1.x (or earlier) or 1.2beta2 (or earlier) will force a complete **re-index of SVN repositories**.

### **Upgrade Procedure**



#### **Upgrade a test environment first**

As always, please test your upgrades in your test environment before rolling into production.

If you are already running a version of FishEye, please follow these instructions on [FishEye Upgrade Guide](#).

### **Checking for Known Issues and Troubleshooting the FishEye Upgrade**

If something is not working correctly after you have completed the steps above to upgrade your FishEye installation, please check for known FishEye 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 FishEye after we have released the software. In such cases we publish information about the known issues in the FishEye Knowledge Base. Please check the [FishEye Knowledge Base](#) for known issues and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the FishEye upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the FishEye 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

[FishEye 1.3 Release Notes](#)

[FishEye 1.3 Changelog](#)

## **FishEye Release Summary**

### ***FishEye 2.5 (8-Feb-11)***

- Search Revamp
- Redesign Activity Stream
- Mercurial and Git Authentication
- RSS Improvements
- Universal Plugin Manager
- More in [release notes](#).

### ***FishEye 2.4 (20-Oct-10)***

- Branch and Tag Selector
- File History Redesign
- Easier Application Linking
- SSL Support
- User Interface Improvements
- Performance Improvements
- More in [release notes](#).

### ***FishEye 2.3 (26-May-10)***

- Mercurial SCM Alpha
- New 'Aggregate' functions in EyeQL query language
- Revamped Installation Process
- More in [release notes](#).

### ***FishEye 2.2 (18-Feb-10)***

- Enhanced Side-by-Side Diff View Mode
- Improved Quick Navigation
- Annotation Context Menu
- Code Copying
- ClearCase and Git Support Now Final
- Numerous improvements and bug fixes
- More in [release notes](#).

### ***FishEye 2.1 (12-Nov-09)***

- Wiki Markup in Commit Messages
- Streamlined JIRA Integration
- FishEye Admin API
- History Page Performance Increases
- ClearCase Support Now in Beta
- More in [release notes](#).

### ***FishEye 2.0 (30-Jun-09)***

- Activity streams
- People statistics
- Favourites, bookmarks & saved search
- Enhanced JIRA integration
- New user interface
- Git beta
- More in [release notes](#).

### ***FishEye 1.6 (23-Sep-08)***

- FishEye search enhancements
- Multiple admin users
- Remote API improvements
- Changes to charts
- Performance tweaks
- More in [release notes](#).

### ***FishEye 1.5 (14-Apr-08)***

- Per-author lines of code statistics
- Charting improvements
- Customisable email templates
- More in [release notes](#).

### ***FishEye 1.4 (5-Dec-07)***

- Enhancements to user management
- Crowd/SSO support
- Crucible integration
- Enhancements to JIRA plugin
- More in [release notes](#).

### ***FishEye 1.3 (1-Aug-07)***

- Support for the Perforce version control system.
- SVN properties are now shown.
- Quicksearch now searches for changeset ids.
- New "mixed" chart on annotation pages, showing author-over-time breakdown.
- Side by Side diffs (1.3.1)
- More in [release notes](#).

## **Security Advisories**

This page lists security advisories for FishEye.

- [FishEye and Crucible Security Advisory 2011-01-12](#)
- [FishEye Security Advisory 2010-05-04](#)
- [FishEye Security Advisory 2010-06-16](#)

- [FishEye Security Advisory 2010-10-20](#)

## FishEye and Crucible Security Advisory 2011-01-12

This advisory announces a number of security vulnerabilities that we have found and fixed in recent versions of FishEye/Crucible. You need to upgrade your existing FishEye/Crucible installations to fix these vulnerabilities. Enterprise Hosted customers should request an upgrade by filing a ticket at <http://support.atlassian.com>. JIRA Studio is not vulnerable to any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerabilities listed in this advisory have been discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

### In this advisory:

- [XSS Vulnerabilities](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Administration password logged in debug log](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Review comment search returns comments that a user has no permission to view](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Anonymous global access exposes entire user list](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)

## XSS Vulnerabilities

### Severity

Atlassian rates the severity level of these vulnerabilities as **high**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

### Risk Assessment

We have identified and fixed a number of cross-site scripting (XSS) vulnerabilities which may affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). XSS vulnerabilities potentially allow an attacker to embed their own JavaScript into a FishEye/Crucible page. You can read more about XSS attacks at [cgisecurity.com](http://cgisecurity.com), [The Web Application Security Consortium](#) and other places on the web.

### Vulnerability

The table below describes the FishEye/Crucible versions and the specific functionality affected by the XSS vulnerabilities.

FishEye/Crucible Feature	Affected FishEye/Crucible Versions	Issue Tracking
Crucible review – linked JIRA issue	Crucible 2.0.1 – 2.3.7	<a href="#">CRUC-5307</a>
Crucible email reviews	Crucible 2.2.0 – 2.4.0	<a href="#">CRUC-5308</a>
Crucible review reload	Crucible 2.2.0 – 2.4.2	<a href="#">CRUC-5309</a>
Crucible edit review details screen	Crucible 2.2.0 – 2.3.7	<a href="#">CRUC-5345</a>
FishEye repository configuration	FishEye 2.4.0	<a href="#">CRUC-5310</a>
FishEye charts	FishEye 2.2.0 - 2.4.0	<a href="#">CRUC-5311</a>

FishEye/Crucible code macro	FishEye/Crucible 2.2.0 – 2.4.0	<a href="#">CRUC-5312</a>
FishEye/Crucible changeset page heading	FishEye/Crucible 2.3.2 – 2.4.0	<a href="#">CRUC-5313</a>

### Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable [public signup](#) to your instance until you have applied the upgrade. For even tighter control, you could restrict access to trusted [groups](#).

### Fix

FishEye/Crucible 2.4.4 fixes all of these issues. View the issues linked above for information on earlier fix versions for each issue. For a full description of this release, see the [FishEye 2.4 changelog](#) and [Crucible 2.4 Changelog](#). You can download the latest version of FishEye/Crucible from the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix these vulnerabilities. You must upgrade your FishEye/Crucible installation.

## ***Administration password logged in debug log***

### Severity

Atlassian rates the severity level of these vulnerabilities as **high**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

### Risk Assessment

We have identified and fixed a vulnerability in the FishEye/Crucible logging which may affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). This vulnerability allows administrator passwords to be logged in clear text when debug logging is enabled.

### Vulnerability

This vulnerability affects FishEye and Crucible 2.2.0 to 2.4.0.

### Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable access logging. See [Enabling Access Logging in FishEye](#) and [Enabling Access Logging in Crucible](#). You can also apply file restrictions to your log files. Note, this issue only occurs when DEBUG logging is turned on (off by default) when an administrator logs in.

### Fix

FishEye/Crucible 2.4.2 and later fix this issue. For a full description of this release, see the [FishEye 2.4 changelog](#) and [Crucible 2.4 Changelog](#). You can download the latest version of FishEye/Crucible from the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix this vulnerability. You must upgrade your FishEye/Crucible installation.

## ***Review comment search returns comments that a user has no permission to view***

### Severity

Atlassian rates the severity level of these vulnerabilities as **medium**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

### Risk Assessment

We have identified and fixed a vulnerability in the Crucible review comment search which may affect Crucible instances, including publicly available instances (that is, internet-facing servers). This vulnerability allows review comments to be displayed for projects that are not publicly viewable.

### Vulnerability

This vulnerability affects Crucible 2.2.0 to 2.4.3.

### Risk Mitigation



We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

#### Fix

FishEye/Crucible 2.2.5, 2.3.8 and 2.4.4 fix this issue. For a full description of this release, see the [FishEye 2.4 changelog](#) and [Crucible 2.4 Changelog](#). You can download these versions of FishEye/Crucible via the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix this vulnerability. You must upgrade your FishEye/Crucible installation.

#### ***Anonymous global access exposes entire user list***

#### Severity

Atlassian rates the severity level of these vulnerabilities as **medium**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

#### Risk Assessment

We have identified and fixed a vulnerability in the FishEye/Crucible anonymous global access which may affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). This vulnerability exposes the user list (usernames and emails) of a FishEye/Crucible instance for access when anonymous global access is enabled.

#### Vulnerability

This vulnerability affects FishEye and Crucible 2.2.0 to 2.4.3.

#### Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable global anonymous access. See [Configuring Anonymous Access](#).

#### Fix

FishEye/Crucible 2.2.6, 2.3.8 and 2.4.4 fix this issue. For a full description of this release, see the [FishEye 2.4 changelog](#) and [Crucible 2.4 Changelog](#). You can download these versions of FishEye/Crucible via the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix this vulnerability. You must upgrade your FishEye/Crucible installation.

## FishEye Security Advisory 2010-05-04

#### In this advisory:

- [Admin Escalation Vulnerability](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [XSS Vulnerabilities in FishEye](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Prevention of Brute Force Attacks](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Changed Behaviour in FishEye](#)
- [Download Patches for Earlier FishEye / Crucible Versions](#)
  - [Patch for FishEye / Crucible 2.1.4](#)
  - [Patch for FishEye / Crucible 2.0.6](#)
  - [Patch for FishEye 1.6.6](#)
  - [Patch for Crucible 1.6.6](#)

#### ***Admin Escalation Vulnerability***

## Severity

Atlassian rates this vulnerability as **critical**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank a vulnerability as critical, high, moderate or low.

## Risk Assessment

We have identified and fixed an admin escalation vulnerability, which affects FishEye instances. This vulnerability has security implications and is especially important for anyone running publicly accessible instances of FishEye.

## Vulnerability

This vulnerability allows a motivated attacker to perform admin actions.

All versions of FishEye from version 1.6.0-beta2 (including 1.6.0) through to 2.2.1 are affected by these admin escalation vulnerabilities.

Affected FishEye Versions	Fix Availability	More Details	Severity
All versions up to and including 2.2.1	2.2.3 update, also available as patches for certain versions, listed on <a href="#">this page</a> .	This vulnerability allows a motivated attacker to perform admin actions.	Critical

## Risk Mitigation

We strongly recommend either upgrading or patching your FishEye installation to fix this vulnerability. Please see the 'Fix' section below.



Note: If you are an Atlassian JIRA Studio customer, we have assessed that your system is secure and implemented additional protections for it.

## Fix

These issues have been fixed in FishEye 2.2.3 (see the [changelog](#)), which you can download from the [download centre](#). Later versions will include protection from this vulnerability.

This fix is also provided as a patch for FishEye 2.1.4, 2.0.6 and 1.6.6, which you can download from [this page](#). Customers on earlier point versions of FishEye will have to upgrade to version 2.1.4, 2.0.6 or 1.6.6 before applying the patch. We recommend you upgrade to FishEye 2.2.3.

## XSS Vulnerabilities in FishEye

## Severity

Atlassian rates these vulnerabilities as **critical**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank a vulnerability as critical, high, moderate or low.

## Risk Assessment

We have identified and fixed several cross-site scripting (XSS) vulnerabilities in FishEye, which may affect FishEye instances. These vulnerabilities have security implications and are especially important for anyone running publicly accessible instances of FishEye.

- The attacker might take advantage of the vulnerability to steal other users' session cookies or other credentials, by sending the credentials back to the attacker's own web server.
- The attacker's text and script might be displayed to other people viewing a FishEye page. This is potentially damaging to your company's reputation.

You can read more about XSS attacks at [cgisecurity](#), [CERT](#) and other places on the web.

## Vulnerability

All versions of FishEye are affected by these XSS vulnerabilities.

Affected FishEye Versions	Fix Availability	More Details	Severity
All versions up to and including 2.2.1	2.2.3 only	An attacker could take advantage of this vulnerability to steal other users' session cookies or other credentials, or the attacker's text and script might be displayed to other people viewing a FishEye page.	Critical

#### Risk Mitigation

We strongly recommend upgrading your FishEye installation to fix these vulnerabilities. Please see the 'Fix' section below.

#### Fix

These issues have been fixed in FishEye 2.2.3 (see the [changelog](#)), which you can download from the [download centre](#).

#### Prevention of Brute Force Attacks

#### Severity

Atlassian rates this vulnerability as **moderate**, according to the scale published in [Severity Levels for Security Issues](#).

#### Risk Assessment

We have improved the security of the following areas in FishEye:

- Prevention of brute force attacks by requiring users to solve a [CAPTCHA](#) test after a maximum number of repeated login attempts.

#### Vulnerability

We have identified and fixed a problem where FishEye allows an unlimited number of repeated login attempts, potentially opening FishEye to a brute force attack. Details of this improvement are summarised below.

Affected FishEye Versions	Fix Availability	More Details	Severity
All versions up to and including 2.2.1	2.2.3 only	FishEye allows an unlimited number of login attempts. This makes FishEye vulnerable to a brute force attack.	Moderate

#### Risk Mitigation

We recommend that you upgrade your FishEye installation to fix these vulnerabilities. Please see the 'fix' section [below](#).

You can also prevent brute force attacks by following our guidelines on [using Fail2Ban to limit login attempts](#).

#### Fix

This issue has been fixed in FishEye 2.2.3 (see the [changelog](#)). Later versions will include protection from this vulnerability. You can download FishEye 2.2.3 from the [download centre](#).

#### Changed Behaviour in FishEye

In order to fix these issues, we have changed FishEye's behaviour as follows:

- After three consecutive failed login attempts, FishEye will display a [CAPTCHA](#) form asking the user to enter a given word when attempting to log in again. This will prevent brute force attacks via the login screen. The number of failed attempts needed to trigger the [CAPTCHA](#) testing is configurable. For more information, see the documentation for [Brute Force Login Protection](#).



In addition, after three consecutive failed login attempts via the FishEye remote API, an error message will be returned. Human intervention will then be required to reset that login account, i.e. solve the [CAPTCHA](#) test via the login screen.

## Download Patches for Earlier FishEye / Crucible Versions



These patch releases contain security fixes, which apply to the shared FishEye architecture that is the basis of both FishEye and Crucible.

These patches fix the Admin Escalation vulnerability only. Please note that these patches are for specific older point versions of FishEye (2.1.4, 2.0.6 or 1.6.6). If you are running an earlier version than these, you will need to upgrade to a version specifically addressed by one of these patches. To update a more recent version of the product (2.1.5 through 2.2.1), please upgrade to FishEye 2.2.3 or later. Atlassian strongly recommends that you [upgrade to FishEye 2.2.3](#) or later.

[MD5 checksums](#) are provided to allow verification of the downloaded files.

### Patch for FishEye / Crucible 2.1.4

File	FishEye / Crucible Version	Release Date	MD5 Checksum
<a href="#">fisheye-crucible-2.1.4-patch1.zip</a>	2.1.4	4th May, 2010	6062fa2e1ad93729527357fb97b0d2ea

### Patch for FishEye / Crucible 2.0.6

File	FishEye / Crucible Version	Release Date	MD5 Checksum
<a href="#">fisheye-crucible-2.0.6-patch1.zip</a>	2.0.6	4th May, 2010	6aae75e2a5308121887bf9532473cf75

### Patch for FishEye 1.6.6

File	FishEye Version	Release Date	MD5 Checksum
<a href="#">fisheye-1.6.6-patch1.zip</a>	1.6.6	4th May, 2010	210ef3358aff83861733f8f22d331d7e

### Patch for Crucible 1.6.6

File	Crucible Version	Release Date	MD5 Checksum
<a href="#">crucible-1.6.6-patch1.zip</a>	1.6.6	4th May, 2010	48e8e8ada0ddb3fc8671459051df1120



To acquire all of the fixes on this page, upgrade to [FishEye 2.2.3](#), which you can download from the [download centre](#).

## FishEye Security Advisory 2010-06-16

### In this advisory:

- [Remote Code Exploit Vulnerability](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Download Patches for Earlier FishEye / Crucible Versions](#)
  - [Patch for FishEye / Crucible 2.3.2](#)
  - [Patch for FishEye / Crucible 2.2.3](#)

### Remote Code Exploit Vulnerability

#### Severity

Atlassian rates this vulnerability as **critical**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank a vulnerability as critical, high, moderate or low.

#### Risk Assessment

We have identified and fixed a remote code exploit vulnerability which affects FishEye and Crucible instances.

## Vulnerability

This vulnerability allows a motivated attacker to call remote code on the host server.

All versions of FishEye/Crucible up to version 2.3.2 are affected by this vulnerability.

Affected FishEye Versions	Fix Availability	More Details	Severity
All versions up to and including 2.3.2.	2.3.3 update, also available as patches for 2.3.2 and 2.2.3.	This vulnerability allows a motivated attacker to call remote code on the host server.	Critical

This vulnerability has been discovered in XWork by OpenSymphony, a command pattern framework which is used by FishEye and Crucible.

### About the XWork Framework:

- See the [OpenSymphony XWork page](#) for more information about XWork.

## Risk Mitigation

We strongly recommend either upgrading or patching your FishEye/Crucible installation to fix this vulnerability. Please see the 'Fix' section below.

## Fix

These issues have been fixed in FishEye 2.3.3 (see the [changelog](#)), which you can download from the [download centre](#).

It has also been fixed in Crucible 2.3.3 (see the [changelog](#)), which you can download from the [download centre](#).

Later versions will include protection from this vulnerability.

This fix is also provided as a patch for FishEye/Crucible 2.3.2 and 2.2.3, which you can download from [links on this page](#). Customers on earlier point versions of FishEye/Crucible will have to upgrade to version 2.3.2 or 2.2.3 before applying the patch. Atlassian recommends you upgrade to FishEye/Crucible 2.3.3.

## Download Patches for Earlier FishEye / Crucible Versions



These patch releases contain security fixes, which apply to the shared FishEye architecture that is the basis of both FishEye and Crucible.

Please note that these patches are for specific point versions of FishEye (2.3.2 and 2.2.3). If you are running an earlier version than these, you will need to upgrade to a version specifically addressed by one of these patches. Atlassian strongly recommends that you upgrade to [FishEye 2.3.3 / Crucible 2.3.3](#) or later.

MD5 checksums are provided to allow verification of the downloaded files.

### Patch for FishEye / Crucible 2.3.2

File	FishEye / Crucible Version	Release Date	MD5 Checksum
<a href="#">fisheye-crucible-2.3.2-patch1.zip</a>	2.3.2	16th June, 2010	6fe98db821a6d26f26907688af2ccd84

### Patch for FishEye / Crucible 2.2.3

File	FishEye / Crucible Version	Release Date	MD5 Checksum
<a href="#">fisheye-crucible-2.2.3-patch1.zip</a>	2.2.3	16th June, 2010	6fe98db821a6d26f26907688af2ccd84

Our thanks to **Meder Kydyraliev** of the **Google Security Team** who discovered this vulnerability. Atlassian [fully supports the reporting of vulnerabilities](#) and appreciates it when people work with Atlassian to identify and solve the problem.

## FishEye Security Advisory 2010-10-20

This advisory announces a number of security vulnerabilities in earlier versions of FishEye that we have found and fixed in [FishEye 2.4](#) and [FishEye 2.3.7](#). In addition to releasing FishEye 2.4 and FishEye 2.3.7, we also provide a patch for the vulnerabilities mentioned below. You will be able to apply this patch to existing installations of FishEye 2.3.6. However, we recommend that you upgrade to FishEye 2.4 to fix these vulnerabilities.

### In this advisory:

- [XSS Vulnerabilities](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerabilities](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Available Patches](#)
  - [Step 1 of the Patch Procedure: Install the Patch](#)

### XSS Vulnerabilities

#### Severity

Atlassian rates the severity level of these vulnerabilities as **high**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

#### Risk Assessment

We have identified and fixed a number of cross-site scripting (XSS) vulnerabilities which may affect FishEye instances, including publicly available instances.

- An attacker might take advantage of an XSS vulnerability to steal the current session of a logged-in user.
- XSS vulnerabilities potentially allow an attacker to embed their own JavaScript into a FishEye page. An attacker's text and script might be displayed to other people viewing the page.

You can read more about XSS attacks at [cgisecurity](#), [CERT](#) and other places on the web.

#### Vulnerabilities

The table below describes the parts of FishEye affected by the XSS vulnerabilities.

FishEye Feature	Affected FishEye Versions	Issue Tracking
Code Metrics Plugin	2.0.x to 2.3.6 inclusive	<a href="#">CRUC-4572</a>
FishEye Revision ID Parameters on Annotated Views	2.3.0 to 2.3.6 inclusive	<a href="#">CRUC-4641</a>

#### Risk Mitigation

We recommend that you upgrade your FishEye installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable the 'Code Metrics Plugin' via the Administration Console ('Plugins' menu item under 'Systems Settings') to mitigate the Code Metrics Plugin XSS vulnerability. There is no mitigation for the FishEye Revision ID Parameters on Annotated Views XSS vulnerability.

#### Fix

##### FishEye-only installations:

FishEye 2.4 (*recommended*) and FishEye 2.3.7 fix these issues. For a full description of the FishEye 2.4 release, see the [release notes](#). You can download FishEye 2.4 from the [download centre](#). You can download FishEye 2.3.7 from the [download centre archives](#).

If you cannot upgrade to FishEye 2.4/2.3.7, you can patch your existing installation using the patch listed [below](#).

##### FishEye+Crucible installations:

Crucible 2.4 (*recommended*) and Crucible 2.3.7 fix these issues. For a full description of the Crucible 2.4 release, see the [release notes](#). You can download Crucible 2.4 from the [download centre](#). You can download Crucible 2.3.7 from the [download centre archives](#).

If you cannot upgrade to Crucible 2.4/2.3.7, you can patch your existing installation using the patch listed [below](#).

### Available Patches

If for some reason you cannot upgrade to FishEye 2.4/2.3.7 or Crucible 2.4/2.3.7, you can apply the following patch to fix the vulnerabilities described in this security advisory.

#### Step 1 of the Patch Procedure: Install the Patch


A patch is available for **FishEye/Crucible 2.3.6 only**.

The patch addresses the following issue:

- XSS vulnerability in the code metrics plugin ([CRUC-4572](#)).
  - XSS vulnerability in revision ID parameters on annotated views ([CRUC-4641](#)).
1. Shut down FishEye.
  2. [Back up your FishEye instance](#).
  3. Download the patch, [fisheye-2.3.6-security-patch.zip](#).
  4. Expand the zip file into `<fisheye_install_dir>`, overwriting the existing files.  
*The patch will overwrite your 'plugins/bundled-plugins.zip' file as well as some class files.*
  5. Restart FishEye.

## FishEye Installation Guide


This guide describes the advanced installation options that can be used when installing FishEye.


 Evaluating FishEye for the first time? See the [FishEye 101](#) page.

- [Installing FishEye](#)
- [Configuring FishEye](#)
- [Best Practices for FishEye Configuration](#)
- [Setting JAVA\\_HOME](#)
- [Setting JVM System Properties](#)

## Installing FishEye

This guide describes the advanced FishEye installation options.

 Evaluating FishEye for the first time? See the [FishEye 101](#) page.

1. Download the FishEye zip file and extract it to a folder on your local computer.  
 Folder names in the path to your FishEye executable should have no spaces in them.  
This document assumes you have extracted FishEye to `/FISHEYE_HOME/`.
2. Ensure you have installed an appropriate Java runtime - see [Supported Platforms](#).
3. Ensure that `java` is in the `PATH`, or that the `JAVA_HOME` [environment variable](#) is set.
4. If you intend to use FishEye with [Subversion](#), please ensure you read the [Supported Platforms](#), [Subversion client setup](#), and [granting permission to FishEye](#) to scan your repository.
5. If you intend to use FishEye with [Perforce](#), please ensure you read the [Perforce client setup](#).



#### Read-only access for FishEye

We recommend you run FishEye as a user that has only **read** access to your repository.

## FishEye Folder Layout

### ***FISHEYE\_HOME (Default)***

By default, FishEye will run self-contained within the `/FISHEYE_HOME/` directory. The FishEye directory layout looks like this:

<code>/FISHEYE_HOME/config.xml</code>	Configuration file.
<code>/FISHEYE_HOME/var/</code>	Directory under which FishEye stores its data.
<code>/FISHEYE_HOME/var/data/</code>	Persistent information.

/FISHEYE_HOME/var/cache/	Caches and indexes.
/FISHEYE_HOME/var/log/	Log files.
/FISHEYE_HOME/var/tmp/	Temporary files.
/FISHEYE_HOME/cache/	Caches and indexes. (in addition to FISHEYE_HOME/var/cache)
/FISHEYE_HOME/bin/	Scripts for controlling FishEye.
/FISHEYE_HOME/lib/	FishEye's dependent libraries.
/FISHEYE_HOME/ ...	Remainder omitted for brevity.

However, this self-contained layout results in tedious copying of files each time you upgrade FishEye. Also, if you want to run multiple instances of FishEye, you need multiple /FISHEYE\_HOME/ installations. These two issues can be avoided by setting a [FISHEYE\\_INST](#) ('FishEye Instance') location.

### ***FISHEYE\_INST (Optional)***

FISHEYE\_INST is a location where your repository data is stored, separate from the installation location of the FishEye application. This may be necessary for practical or administrative reasons.



A separate [FISHEYE\\_INST](#) location is recommended for production installations of FishEye. Once you have declared your FISHEYE\_INST, you will need to copy your FISHEYE\_HOME/config.xml file to your FISHEYE\_INST/ directory.

When the FISHEYE\_INST environment variable is set, FishEye's directory layout becomes:

\$FISHEYE_INST/config.xml	
\$FISHEYE_INST/var/	All permanent and most temporary data is found under \$FISHEYE_INST/var/
\$FISHEYE_INST/cache/	Caches and indexes are found under \$FISHEYE_INST/var/ (in addition to \$FISHEYE_INST/var/cache)
\$FISHEYE_INST/lib/	Site-specific Java libraries (.jars) that FishEye should load on startup. (Do not copy the dependent /FISHEYE_HOME/lib/ files into here.)
\$FISHEYE_INST/syntax/	Site-specific syntax highlighting definitions.
\$FISHEYE_INST/system.properties	Used for setting system properties within the FishEye JVM, which may sometimes be useful for support purposes. (Note: the other way to set properties is via FISHEYE_OPTS, e.g.: <code>export FISHEYE_OPTS=-Dpropname=value</code> )
/FISHEYE_HOME/lib/	FishEye's dependent libraries.
/FISHEYE_HOME/syntax/	FishEye bundled highlighting definitions.
/FISHEYE_HOME/bin/	
/FISHEYE_HOME/ ...	Remaining files are found under /FISHEYE_HOME/.

The rest of this *Installation Guide* refers to \$FISHEYE\_INST/, but if you have not set FISHEYE\_INST then it defaults to /FISHEYE\_HOME/ (the directory where you extracted FishEye).

### ***Next Step - Initial Configuration***

See the guidelines on [configuring FishEye](#).

## **Configuring FishEye**

### ***Initial Configuration***

FishEye runs its own HTTP web server, and additionally listens on a socket for administration/shutdown commands. These default to :8060 and 127.0.0.1:8059 respectively. You can change both these addresses before starting FishEye by editing `config.xml`.

### ***Running FishEye for the First Time***

To run FishEye for the first time, simply do the following:



- On Windows:

```
C:\> cd FISHEYE_HOME\bin
C:\FISHEYE_HOME\bin> run.bat
```

- On Unix-based systems:

```
$ cd /FISHEYE_HOME/bin
$ ./run.sh
```

Once started, FishEye will run its own HTTP web server, on port 8060 by default.

You can access FishEye immediately by going to <http://HOSTNAME:8060/> in a browser.



If you want to run FishEye as a Windows service, please refer to [this document](#)

### Administration Password

The first time you run FishEye, when you access the FishEye web server you will be asked for:

- An administrator password. This password controls access to the FishEye Administration pages.
- A license key. You can get a trial license [here](#).

If you need to reset the administrator password, delete the `admin-hash` attribute in the `<config>` element. You will be prompted to enter an administrator password next time you start FishEye.

### Accessing the Administration Pages

Once you have set up an administrator password (described above), you can access the Administration pages at <http://HOSTNAME:8060/admin/>.

One of your first steps will be to [add a repository](#).

You will also want to read about the [command-line options](#) for controlling FishEye.



You can disable FishEye's Administration pages by setting `admin-hash=""` in the `<config>` element of `config.xml` before starting FishEye.



Want a hands-on tour of the best FishEye features? See the [FishEye 101](#) page.

## Best Practices for FishEye Configuration

### 1. Ensure your FishEye scan performance is as fast as possible.

Use the `file://` protocol for fastest indexing performance. [Read more](#). (If you cannot install FishEye on the server where Subversion is running, use `svnsync` to mirror the repository onto the fisheye server).

### 2. If your repository is really large, consider starting at a sensible revision

This affects Subversion and Perforce. Do this when defining your [Perforce](#) or [SVN](#) repository.

### 3. Exclude directories if you don't need them.

For example, not everyone may need to access a developer's personal branch on the repository, so you can exclude it from the repository scan. You may also want to exclude large branches/tags that have been deleted (even though they are deleted in your repository, FishEye will still index them as they once existed). Do this [by using 'Allow' and 'Exclude' Admin settings](#).

### 4. Consider skipping Perforce Label processing if not important

- Perforce Labels can be slow to process, and thus cause FishEye to index slowly in certain environments.

- Do this by defining the ['Skip Labels' Repository Detail](#).

#### **5. Split your repositories into logical components if you can (For example, by product or project).**

- A logical structure will make it simpler to exclude certain branches when they become less relevant to work in progress. This can garner significant performance gains.
- Avoid treating an SCM like a file system — don't alter the structure or move items around without a significant reason for doing so. Make these changes sparingly and as infrequently as possible.
- The more often you make major changes to the structure inside your SCM, the more scanning is required for FishEye to keep track of its status. This especially applies to Subversion, because of its concept of 'cheap copies'. The result is that small changes can be essentially unmeasurable and cause a large amount of re-scanning.

#### **6. Decide on your Subversion tag and branch conventions**

Decide what conventions you are going to adopt for your subversion repositories and then stick to them. It's best to stick to one of the standard conventions recommended by Subversion.

#### **7. Exclude tags and/or branches that you delete and recreate often.**

You may have a branch or tag that you delete and recreate often, for example a latest tag which holds the latest release. Fisheye will take a long time to index this tag/branch as it needs to index its entire history, which can be very large. It is recommended that you exclude this directory from being indexed. See the [documentation on the 'Excludes' option](#).

#### **8. Avoid using the text `$Log$` in your CVS commit messages.**

This is because FishEye does not handle the `$Log` RCS expansion keyword correctly. Some diff results (and line numbers in diffs) may appear incorrect in files where `$Log` is used.

#### **9. Avoid using symbolic links to refer to your `FISHEYE_HOME` location.**

See this existing [Knowledge Base document](#) for more information.

#### **10. Configure your index threads & memory usage to an appropriate level.**

See the page [Tuning FishEye](#) for instructions and the related memory guide, [Fix out of Memory Errors](#).

#### **11. Do not use a 64 bit JVM.**

Refer to our [Supported Platforms](#).

#### **See Also**

- [Improve FishEye Scan Performance](#)
- [Tuning FishEye](#)

## Setting JAVA\_HOME

Once you have installed the JDK (see [System Requirements](#)), you need to set the `JAVA_HOME` environment variable.

### **To set the `JAVA_HOME` environment variable on Windows**

1. Right click on the **'My Computer'** icon on your desktop and select **'Properties'**.
2. Click the **'Advanced'** tab.
3. Click the **'Environment Variables'** button.
4. Click **'New'**.
5. In the **'Variable name'** field, enter `JAVA_HOME`.
6. In the **'Variable value'** field, enter the directory (including its full path) where you installed the JDK.
7. Restart the computer.

### **To set the `JAVA_HOME` environment variable on Linux or UNIX based systems**

There are many ways you can do it on Linux or UNIX based systems (including Mac OS X). Here are two:

#### **For your current user,**

1. Open up a shell / terminal window
2. `vi ~/.profile` (replace `vi` with your favourite text editor)
3. Add `export JAVA_HOME=/path/to/java/home/dir` on its own line at the end of the file
4. Add `export PATH=$JAVA_HOME/bin:$PATH` on its own line immediately after

5. Save, and restart your shell
6. Running `java -version` should give you the desired results

#### For all users in the system,

1. Open up a shell / terminal window
2. `vi /etc/profile` (replace `vi` with your favourite text editor)
3. Add `export JAVA_HOME=/path/to/java/home/dir` on its own line at the end of the file
4. Add `export PATH=$JAVA_HOME/bin:$PATH` on its own line immediately after
5. Save, and restart your shell
6. Running `java -version` should give you the desired results

If you are using a GUI, you may not need to open up the shell. Instead, you might be able to open the file directly in a graphical text editor.



If you are experiencing memory errors in FishEye, see [Fix Out of Memory errors by increasing available memory](#).

## Setting JVM System Properties

FishEye and Crucible use a number of Java Virtual Machine System properties. Most of these are properties set by the virtual machine itself or the FishEye/Crucible launch script. Users can configure the following property to control low level aspects of FishEye's operation:

- `jetty.http.headerbuffersize` - This controls the size of the largest HTTP header value that FishEye will allow (through its embedded servlet engine, Jetty). Some authentication systems require larger header values.

#### Setting a Larger Header Buffer Size

In FishEye 1.6.5 onwards, you can set a `jetty.http.headerbuffersize` system property (in bytes) to adjust the header size. This can be set by passing the `-D` parameter to the JVM, or by adding the property to `FISHEYE_INST/system.properties`. This file can be created as a plain text file (it follows the Java [.properties format](#)) if you need to use this setting.



The recommended approach is to add the property to `FISHEYE_INST/system.properties`. Add this as a new text file, in the Java [.properties format](#).



Users integrating FishEye with Single Sign On applications may require an adjustment to the JVM properties, specifically the HTTP header size. This may also be useful in other circumstances where FishEye's default HTTP header is too small (at 4096 bytes).

## FishEye Upgrade Guide

This page describes the recommended method of upgrading to a new version of FishEye.

The first time you run a new version of FishEye, it will automatically upgrade its data. This may involve a complete re-index of your repository.

#### On this page:

- [Before You Start](#)
- [Upgrade Procedure](#)
  - [Method 1: Using a Separate FISHEYE\\_INST Directory](#)
  - [Method 2: No Separate FISHEYE\\_INST Directory](#)
  - [Method 3 - Without a FISHEYE\\_INST Directory, but would like to set one up](#)
- [Checking for Known Issues and Troubleshooting the FishEye Upgrade](#)

### Before You Start

- Back up your **entire** FishEye instance (see [Backing Up and Restoring FishEye Data](#)), i.e.
  - If you are backing up your FishEye instance via the Admin interface, tick all of the '**Include**' checkboxes (e.g. repository and application caches, plugins and their configuration data, SQL database, etc).
  - If you are backing up your FishEye instance using the command-line interface, do not use any [exclusion options](#).
- Read the [Release Notes and Changelog](#) and version-specific Upgrade Guide for the version you are upgrading to, as well as any versions you are skipping.
- Check the [Supported Platforms](#) to ensure that your system meets the requirements for the new version.
- Check for known issues in the [FishEye Knowledge Base](#).

### Upgrade Procedure

Your upgrade procedure depends on whether you are using a separate `FISHEYE_INST` directory. Read more about `FISHEYE_INST` in the [Installation Guide](#).

#### *Method 1: Using a Separate FISHEYE\_INST Directory*

1. Shut down your existing FishEye server.
2. Make a backup of your FISHEYE\_INST directory.
3. Extract the new FishEye version to a directory, leaving your FISHEYE\_INST environment variable set to its existing location.
4. Start FishEye from the new installation.
5. Follow any version-specific instructions found in the [Release Notes](#).

### Method 2: No Separate FISHEYE\_INST Directory

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

1. Extract the new FishEye instance into a directory such as /NEW\_FISHEYE/.
2. Delete the /NEW\_FISHEYE/var and /NEW\_FISHEYE/cache directories.
3. Shut down the old FishEye instance if it is running.
4. Copy /OLD\_FISHEYE/config.xml to /NEW\_FISHEYE/.
5. Copy (or move) the /OLD\_FISHEYE/var directory to /NEW\_FISHEYE/var.
6. Copy (or move) the /OLD\_FISHEYE/cache directory to /NEW\_FISHEYE/cache.
7. If you have a Cenqua-issued FishEye license, copy your fisheye.license to /NEW\_FISHEYE/. (Atlassian-issued licenses are included within config.xml.)
8. Start FishEye from the new installation.
9. Follow any version-specific instructions found in the [Release Notes](#).

### Method 3 - Without a FISHEYE\_INST Directory, but would like to set one up

1. Shut down the old FishEye instance if it is running.
2. Set up the FISHEYE\_INST [environment variable](#), then create the FISHEYE\_INST directory on your filesystem.
3. Copy the /OLD\_FISHEYE/config.xml to /FISHEYE\_INST.
4. Copy the /OLD\_FISHEYE/var directory to /FISHEYE\_INST.
5. Copy the /OLD\_FISHEYE/cache directory to /FISHEYE\_INST.
6. Extract the new Fisheye archive into a directory such as /NEW\_FISHEYE/.
7. Start Fisheye from the new installation by running NEW\_FISHEYE/bin/run.sh. (Use run.bat on Windows).
8. 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 FISHEYE\_HOME and FISHEYE\_INST. Check your FISHEYE\_INST is pointing to the right directory.

## Checking for Known Issues and Troubleshooting the FishEye Upgrade




If something is not working correctly after you have completed the steps above to upgrade your FishEye installation, please check for known FishEye 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 FishEye after we have released the software. In such cases we publish information about the known issues in the FishEye Knowledge Base. Please check the [FishEye 2.4 Known Issues](#) in the FishEye Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the FishEye upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the FishEye 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.

## Supported Platforms

This page shows the supported platforms for **FishEye 2.5.x** and its minor releases.

Key:  = Supported;  = Not Supported


Java Version	
JRE / JDK <sup>(1)</sup>	 1.5 or later
Operating Systems	
Microsoft Windows <sup>(2)</sup>	
Linux <sup>(2)</sup>	


Apple Mac OS X <sup>(2)</sup>	✓
<b>Databases</b>	
MySQL	✓ MySQL Enterprise Server 5.0.21 or later ✓ MySQL Community Server 5.0.21 or later
PostgreSQL	✓ 8.0 or later
Oracle	✓ 11g
HSQLDB <sup>(3)</sup>	✓ (bundled; for evaluation use only)
<b>Web Browsers</b>	
Microsoft Internet Explorer	✓ 7.0 or later, ✗ IE6 is not supported
Mozilla Firefox	✓ 3 or later
Safari	✓ 4 or later
<b>Version Control Systems</b>	
Subversion	✓ Server 1.1 or later ✓ Client uses included SVNKit. Native JavaHL 1.6 or later may be used.
CVS (and CVSNT)	✓ All versions
Perforce	✓ Client version 2007.3 or later
Git	✓ 1.6 or later
IBM ClearCase	✓ 2003.06.10 or later
Mercurial	✓ 1.5.1 or later (Python 2.4.3 or later)

## Supported Platform Notes

1. FishEye requires **Java Runtime** (JDK or JRE) version **1.5** or later (Solaris requires **1.5.0\_15** as a minimum). Pre-release/Early access versions of the Java Runtime are *not supported*.

You can [download](#) a Java Runtime for Windows/Linux/Solaris. On Mac OS X, the JDK is bundled with the operating system. **Note:** It is highly recommended that you use the Oracle JVM (or use the default Mac OS X JVM), as other implementations have not been tested.

 Once you have installed the JDK, you need to set the [JAVA\\_HOME](#) environment variable.

 If 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.

2. FishEye is a pure Java application and should run on any platform provided the requirements for the JRE or JDK are satisfied.

3. The FishEye built-in database, running [HSQLDB](#) is somewhat susceptible to data loss during system crashes. External databases are generally more resistant to data loss during a system crash.

At this time, FishEye supports the following external databases:

- [MySQL Enterprise Server 5.0.21](#) onwards and [MySQL Community Server 5.0.21](#) onwards (see the [FishEye Database documentation](#)).
- [PostgreSQL 8.x](#) onwards (see the [FishEye Database documentation](#)).
- [Oracle 11g](#) onwards (see the [FishEye Database documentation](#)).

## Hardware Requirements

FishEye should ideally run on a standalone dedicated server. The most important aspect for a large-repository deployment will be I/O speed. You definitely want a fast local HDD for FishEye's cache (not NFS or SAN).

Component	Specifications
CPU	1.8GHz or higher, a single core is sufficient. More cores or higher GHz will result in better load-handling ability.
RAM	1GB minimum, 2GB will provide performance "headroom". Your Java heap should be sized at 512MB with the <code>FISHEYE_OPTS</code> environment variable, adjustable up to 1024MB depending on performance.
I/O	FishEye's input/output is an important element of its overall performance. If FishEye accesses your repository remotely, make sure that the throughput is maximum and the latency minimum (ideally the servers are located in the same LAN, running at 100Mbps or faster).



While some of our customers run FishEye on SPARC-based hardware, Atlassian only officially supports FishEye running on x86 hardware and 64-bit derivatives of x86 hardware.

## Disk Space Requirement Estimates

Disk space requirements for FishEye may vary due to a number of variables such as the repository implementation, file sizes, content types, the size of diffs and comments being stored. The following table contains some real-world examples of FishEye disk space consumption.

Repository Technology	Commits	Codebase Size (HEAD of trunk)	FishEye Index Size
Subversion	14386	466 MB in 12151 files	647 MB
CVS	8210	115 MB in 11433 files	220 MB



These disk space estimates are to be used as a guideline only. We recommend you monitor the disk space that your FishEye instance uses over time, as needs for your specific environment may vary. It may be necessary to allocate more space than indicated here. Additionally, you can reduce disk space consumption by [turning off diff storage](#) in FishEye.

## Deployment Notes for Version Control Systems

<b>Subversion (server)</b>	FishEye can communicate with any repository running Subversion 1.1 or later.
<b>Subversion (client)</b>	FishEye now bundles the SVNkit client, which becomes the default Subversion interface. An alternative is to use the native subversion client, using JavaHL bindings. Please see <a href="#">Subversion Client Setup</a> for more information.
<b>Perforce (client)</b>	FishEye needs access to the <code>p4</code> client executable. Due to some problems with earlier versions of the client, we recommend version 2007.3 or later.
<b>CVS</b>	If you are using CVS, FishEye needs read-access to your CVS repository <b>via the file system</b> . It does not support protocols such as <code>pserver</code> at the moment.

Support for other version control systems is planned for future releases. Let us know what SCM system you would like to see supported by creating a [JIRA issue](#) or adding your vote to an issue, if the request already exists.

## WAR Deployment

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

## Single Sign On with Atlassian Crowd

FishEye is bundled with the Crowd client library, and operates with Crowd 1.3 or later.



### Font size tips

(Especially for Linux users.) For best results you may want to tweak your default monospace font and font-size. The default browser font is usually Courier New which can be hard to read in some browsers. We recommend choosing the same font you use in your IDE and selecting a font size approximately 2 points larger than your variable width font. Firefox 3, Internet Explorer 7 and Safari all have excellent font rendering. It is worth taking some time to tweak your fonts for the best experience.

## End of Support Announcements for FishEye

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

End of Support Matrix for FishEye

Platform	FishEye End of Support
Internet Explorer 7 web browser	FishEye 2.6 ( <a href="#">announcement</a> )
Java Platform 5 (JDK/JRE 1.5)	FishEye 2.6 ( <a href="#">announcement</a> )

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



### Why is Atlassian ending support for these platforms?

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

On this page (most recent announcements first):

- [Deprecated Web Browsers for FishEye \(21 March 2011\)](#)
- [Deprecated Java Platforms for FishEye \(21 March 2011\)](#)

### Deprecated Web Browsers for FishEye (21 March 2011)

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

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

- From FishEye 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 FishEye. If you have questions or concerns regarding this announcement, please email [eol-announcement@atlassian.com](mailto:eol-announcement@atlassian.com).

#### End of Life Announcement for Web Browser Support

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

**Internet Explorer 7 Notes:**

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

### Deprecated Java Platforms for FishEye (21 March 2011)

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

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

- From FishEye 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 FishEye. If you have questions or

concerns regarding this announcement, please email [eol-announcement@atlassian.com](mailto:eol-announcement@atlassian.com).

### End of Life Announcement for Java Platform Support

Java Platform	Support End Date
Java Platform 5 (JDK/JRE 1.5)	When FishEye 2.6 releases (target May 2011)

#### Java Platform 5 End of Support Notes:

- FishEye 2.5 is the last version to officially support Java Platform 5 (JDK/JRE 1.5).
- FishEye 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 FishEye 2.6 release, Atlassian will not provide fixes in older versions of FishEye for bugs affecting Java Platform 5 (JDK/JRE 1.5).

## Copy of End of Support Announcements for FishEye



**This page is a draft in progress and visible to atlassian-staff only. Includes ClearCase EoL.**  
Do not use this page directly. Copy the content to [End of Support Announcements for FishEye](#).

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Java Platform 5 (JDK/JRE 1.5)	FishEye 2.6 ( <a href="#">announcement</a> )
IBM ClearCase (all versions)	4 April 2012 ( <a href="#">announcement</a> )

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#### On this page (most recent announcements first):

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

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

***Deprecated Java Platforms for FishEye (21 March 2011)***

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

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

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

***End of Life Announcement for Java Platform Support***

Java Platform	Support End Date
Java Platform 5 (JDK/JRE 1.5)	When FishEye 2.6 releases (target May 2011)

**Java Platform 5 End of Support Notes:**

- FishEye 2.5 is the last version to officially support Java Platform 5 (JDK/JRE 1.5).
- FishEye 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 FishEye 2.6 release, Atlassian will not provide fixes in older versions of FishEye for bugs affecting Java Platform 5 (JDK/JRE 1.5).

***Deprecated SCM Repository Support for FishEye (4 April 2011)***

This section announces the end of Atlassian support for certain SCM repositories for FishEye. 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.

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

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

**IBM ClearCase End of Support Notes:**

- Atlassian intends to end of life IBM ClearCase functionality on 4 April 2012. The release of FishEye after 4 April 2012 will not contain any IBM ClearCase functionality.
- As mentioned above, the releases of FishEye 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.

## FishEye FAQ

### FishEye FAQ

Answers to frequently asked questions about configuring and using FishEye.

- **Top Evaluator Questions**
  - Does FishEye support GIT?
  - How do I fix problems with indexing my repository?
  - How do I setup JIRA integration?
  - How do I setup LDAP or external user management?
  - How do I speed up slow CVS updates?
  - How do I start FishEye as a Windows service?
  - How do I view changesets and diffs?
  - How is FishEye licensed?
  - What kind of search capabilities does FishEye have?
  - What programming languages are supported?

- **CVS FAQ**
  - How does FishEye calculate CVS changesets?
- **Example EyeQL Queries**
  - How do I find changes made to a branch after a given tag?
  - How do I filter results?
  - How do I find changes between two versions, showing separate histories?
  - How do I find changes made between two version numbers?
  - How do I find commits without comments?
  - How do I find files on a branch, excluding deleted files?
  - How do I find files removed from a given branch?
  - How do I find revisions made by one author between versions?
  - How do I select the most recent revisions in a given branch?
  - How do I show all changesets which do not have reviews?
- **FishEye Developer FAQ**
- **General FAQ**
  - Automating Administrative Actions in Fisheye
  - About Database Encoding
  - About the Lines of Code metric
  - Cannot View Lines of Code Information in FishEye
  - Finding your Server ID
  - How Do I Archive a Branch within Perforce
  - How do I avoid long reindex times when I upgrade?
  - Mercurial Known Issues
  - What SCM systems are supported by FishEye?
- **Installation & Configuration FAQ**
  - How to reset the Admin password in Fisheye or Crucible
  - How Do I Configure an Outbound Proxy Server for FishEye
  - How to Remove Crucible From FishEye 2.x or Later
  - How to run Fisheye or Crucible on startup on Mac OS X
  - Can FishEye be run as a Windows service?
  - Can I deploy FishEye or Crucible as a WAR?
  - Configuring Web Proxy Support for FishEye or Crucible
  - Does Fisheye support SSL (HTTPS)?
  - Improve FishEye Scan Performance
  - Migrating FishEye Between Servers
  - Setting Up a CVS Mirror with rsync
  - What are the FishEye System Requirements?
- **Licensing FAQ**
  - Are anonymous users counted towards FishEye's licence limits?
  - What are the Starter License restrictions?
- **Subversion FAQ**
  - Configuring Start Revision based on date
  - Errors 'SEVERE assert' or 'Checksum mismatch'
  - FishEye fails to connect to the Subversion repository after a short time of successful operation.
  - How can FishEye help with merging of branches in Subversion?
  - SVN Authentication Issues
  - Why do I need to describe the branch and tag structure for Subversion repositories?
  - Why don't all my tags show up in FishEye?
- **Support Policies**
  - Bug Fixing Policy
  - How to Report a Security Issue
  - New Features Policy
  - Patch Policy
  - Security Advisory Publishing Policy
  - Security Patch Policy
  - Severity Levels for Security Issues
- **Troubleshooting**
  - After I commit a change to my CVS repository, it takes a long time before it appears in FishEye.
  - FishEye freezes unexpectedly
  - Generating a Thread Dump Externally
  - I have installed FishEye, and the initial scan is taking a long time. Is this normal?
  - I have installed FishEye, but there is no data in the Changelog.
  - Initial scan and page loads are slow on Subversion
  - It seems that FishEye's HTTP Header is Too Small
  - JIRA Integration Issues
  - Message 'org.tigris.subversion.javahl.ClientException svn Java heap space'
  - On my Red Hat Linux system, after running for several days FishEye freezes and does not accept any more connections.
  - Perforce branches are being indexed as part of the head branch
  - Problems with very long comments and MySQL migration
  - URLs with encoded slashes don't work, especially in Author constraints



Do you have a question, or need help with FishEye? Please [create a support request](#).

## CVS FAQ

### FishEye CVS FAQ

- [How does FishEye calculate CVS changesets?](#) — FishEye's goal is to allow changesets to be seen as a consistent stream of atomic commits. Revisions are collated into the same changeset provided that:

### How does FishEye calculate CVS changesets?

FishEye's goal is to allow changesets to be seen as a consistent stream of atomic commits. Revisions are collated into the same changeset provided that:

- They have the same commit comment.
- They are by the same author.
- They are on the same branch.
- The changeset does not span more than 10 minutes.
- The same file does not appear in a changeset more than once.

## Example EyeQL Queries

### EyeQL

- [How do I find changes made to a branch after a given tag?](#)
- [How do I filter results?](#)
- [How do I find changes between two versions, showing separate histories?](#)
- [How do I find changes made between two version numbers?](#)
- [How do I find commits without comments?](#)
- [How do I find files on a branch, excluding deleted files?](#)
- [How do I find files removed from a given branch?](#)
- [How do I find revisions made by one author between versions?](#)
- [How do I select the most recent revisions in a given branch?](#)
- [How do I show all changesets which do not have reviews?](#)

For more information on using EyeQL, see the [Reference guide](#).

### How do I find changes made to a branch after a given tag?

Find changes made to Ant 1.5.x after 1.5 FINAL:

```
select revisions where on branch ANT_15_BRANCH and after tag ANT_MAIN_15FINAL group by changeset
```

### How do I filter results?

This query, finds files removed on the Ant 1.5 branch, but just returns the person and time the files were deleted:

```
select revisions where modified on branch ANT_15_BRANCH and is dead return path, author, date
```

### How do I find changes between two versions, showing separate histories?

As above, but show the history of each file separately:

```
select revisions where between tags (ANT_MAIN_15FINAL, ANT_151_FINAL] group by file
```

## How do I find changes made between two version numbers?

Find changes made between Ant 1.5 and 1.5.1:

```
select revisions where between tags (ANT_MAIN_15FINAL, ANT_151_FINAL] group by changeset
```

## How do I find commits without comments?

Using the Advanced Search and EyeQL you can find commits that do not have comments using the following query:

```
select revisions from dir / where comment = "" group by changeset
```

## How do I find files on a branch, excluding deleted files?

Find files on branch and exclude delete files:

```
select revisions where modified on branch ANT_15_BRANCH and not is deleted group by changeset
```

## How do I find files removed from a given branch?

Find files removed on the Ant 1.5 branch:

```
select revisions where modified on branch ANT_15_BRANCH and is dead group by changeset
```

## How do I find revisions made by one author between versions?

Find changes made by conor to Ant 1.5.x since 1.5.0:

```
select revisions where between tags (ANT_MAIN_15FINAL, ANT_154] and author = conor group by changeset
```

## How do I select the most recent revisions in a given branch?

Find Java files that are tagged ANT\_151\_FINAL and are head on the ANT\_15\_BRANCH: (i.e. files that haven't changed in 1.5.x since 1.5.1)

```
select revisions from dir /src/main where is head and tagged ANT_151_FINAL and on branch ANT_15_BRANCH and path like *.java group by changeset
```

## How do I show all changesets which do not have reviews?

The following query will return any changesets that have not been reviewed.

```
select revisions where (not in any review)
```

## FishEye Developer FAQ

This page contains answers to frequently asked questions posed by FishEye developers.

Feel free to comment, make submissions, or pose your own question on FishEye Development here.

- **Q:** *I'm getting the error "API access is disabled" as a response from <http://fisheye/api/rest/repositories> on my installation. How do I enable the API as a Fisheye administrator?*  
 ▼ Click here to expand...  
**A:** There is a toggle to enable the API under "Server Settings" in the web admin interface. See [Configuring the FishEye Web Server](#) for more details.
- **Q:** *Is there any way to return unique results from an EyeQL query?*  
 ▼ Click here to expand...  
**A:** It is not currently possible to return unique results.  
 An improvement request exists: [FE-1136](#). Your vote and comments on that issue are appreciated.

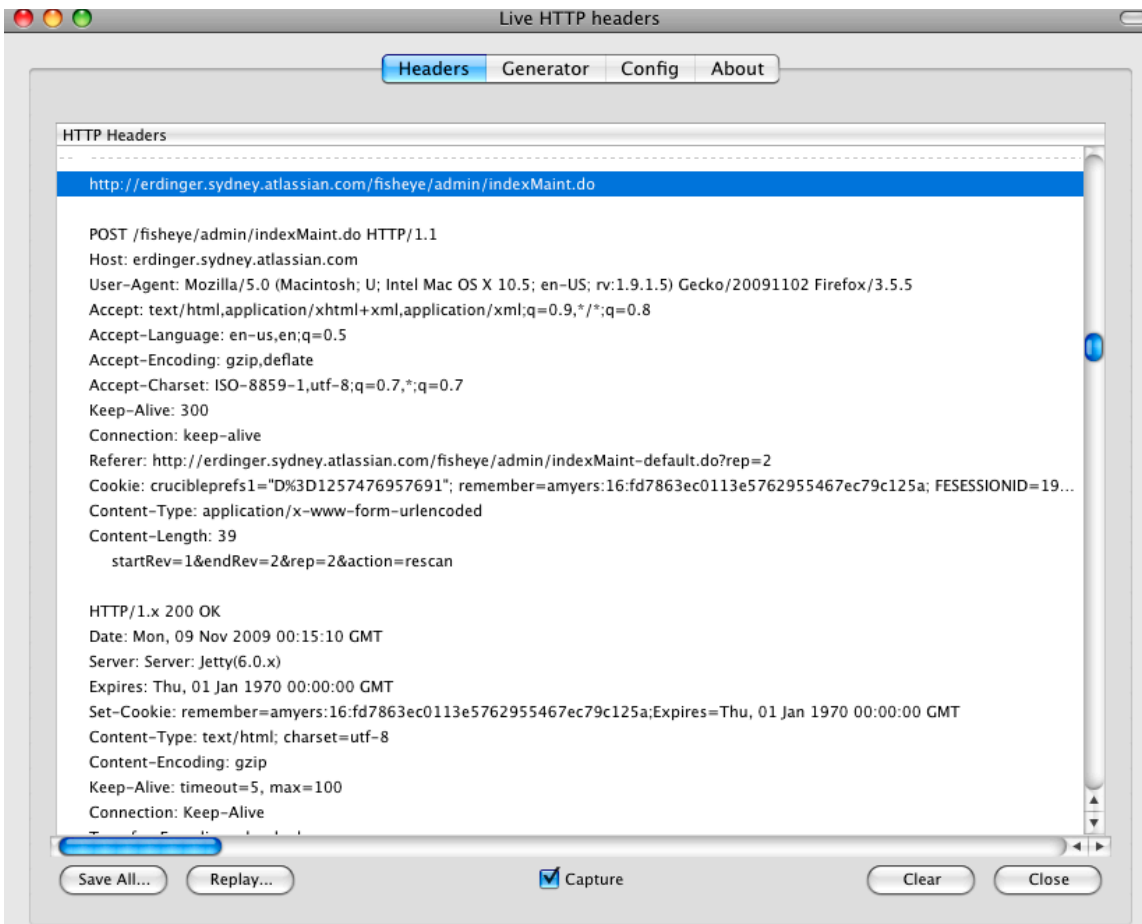
## General FAQ

FishEye General FAQ
<ul style="list-style-type: none"> <li>• <a href="#">Automating Administrative Actions in Fisheye</a></li> <li>• <a href="#">About Database Encoding</a></li> <li>• <a href="#">About the Lines of Code metric</a></li> <li>• <a href="#">Cannot View Lines of Code Information in FishEye</a></li> <li>• <a href="#">Finding your Server ID</a></li> <li>• <a href="#">How Do I Archive a Branch within Perforce</a></li> <li>• <a href="#">How do I avoid long reindex times when I upgrade?</a> — If re-indexing your repository takes longer than you can allow, you can use a temporary copy of your repository and FishEye instance to reduce downtime during the re-indexing process.</li> <li>• <a href="#">Mercurial Known Issues</a></li> <li>• <a href="#">What SCM systems are supported by FishEye?</a></li> </ul>

## Automating Administrative Actions in Fisheye

With some command line scripting and a tool like [wget](#), and [Live HTTP Headers](#) for firefox you can automate actions. In this example, Fisheye will automatically rescan revision properties of an SVN when the commit message is updated to reference a new JIRA issue.

1. Enable live HTTP headers in firefox, then perform the action you want to perform automatically via the Fisheye Administration UI.
2. In the live HTTP headers window you should see some output similar to the following:



3. The important parts are the URL I've highlighted above (<http://erdinger.sydney.atlassian.com/fisheye/admin/indexMaint.do>) and any GET/POST parameters (`startRev=0&endRev=58&rep=2&action=rescan`)
4. Now we can construct a script with wget to automate this:

```
wget --keep-session-cookies --save-cookies cookie.txt
http://erdinger.sydney.atlassian.com/fisheye/admin/login.do
--post-data="origUrl=&adminPassword=admin"
wget --load-cookies cookie.txt --post-data="startRev=0&endRev=58&rep=2&action=rescan"
http://erdinger.sydney.atlassian.com/fisheye/admin/indexMaint.do
```

With that you could generate a `post-revprop-change` hook in svn that will update the repositories automatically.

## About Database Encoding

It is possible to have files in your repository whose names differ only in case, e.g. `Foo.java` and `foo.java`. Hence, your database will need to use rules for comparing string values which recognise that upper and lower case letters are different, that is, a 'case sensitive collation'.

If your database was not created according to these instructions: [Migrating to an External Database](#), then you may be using a case-insensitive and/or non-UTF8 collation. If so, FishEye will display the following message at the bottom of your screen:

*"Your database is not using a case sensitive UTF8 encoding for character fields."*

The following sections provide instructions for changing your database collation for each database type supported for FishEye/Crucible.

**On this page:**

- [MySQL](#)
  - [Change your Database's Collation](#)
  - [Change Collation for CRU\\_STORED\\_PATH Table](#)
- [PostgreSQL](#)

- [Oracle](#)

## MySQL



**Please take a backup of your database before changing its collation.**

To change your collation to `utf8_bin` you need to change your database's default collation, but as this only affects newly created tables you will also need to change the collation on the table for which case sensitivity is critical.

### Change your Database's Collation

Use the [ALTER DATABASE](#) command, as follows:

```
alter database character set utf8 collate utf8_bin;
```

### Change Collation for CRU\_STORED\_PATH Table

Use the [ALTER TABLE](#) command, as follows:

```
alter table cru_stored_path convert to character set utf8 collate utf8_bin;
```

## PostgreSQL



**Please take a backup of your database before changing its collation.**

If you have created your PostgreSQL database with the incorrect encoding, you will need to dump your database, drop it, create a new database with the correct encoding and reload your data.

You can do this via the [standard database migration procedure](#) – instead of migrating from HSQLDB to PostgreSQL, you are migrating from a PostgreSQL DB with the incorrect encoding to one created with the correct encoding.

## Oracle

Oracle database encoding must be configured when installing the database server. It cannot be configured on a per database level. When installing Oracle, you should select the `AL32UTF8` encoding.

## About the Lines of Code metric

This page contains information about the Lines of Code metric and how it is processed and represented by FishEye.

*On this page:*

- [Definition](#)
- [Disadvantages](#)
- [LOC in Fisheye](#)
- [User-Specific LOC](#)

### Definition

Lines of Code or LOC (also known as Source Lines of Code - SLOC) is a quantitative measurement in computer programming for files that contains code from a computer programming language, in text form. The number of lines indicates the size of a given file and gives some indication of the work involved.

LOC is literally the count of the number of lines of text in a file or directory. In FishEye, blank lines and comment lines are counted toward the total lines of code.



LOC for a file/directory is the total number of lines in the relevant files, while LOC for an author is the number of lines **blamed on that author**. Neither of these should ever be less than zero. However, the **change** in LOC over a period of time can be negative if there was a net reduction in the LOC over the period.

### Disadvantages

While it can be useful, LOC has some [well documented disadvantages](#). Keep these disadvantages and limitations in mind when you use LOC in your work environment.

In addition, the nature of branching in [SCM](#) applications means that calculating a LOC value for a whole project is not possible. A naive summation of the LOC of all the branches will give a meaningless number that jumps every time a branch is copied to create a new branch. Thus, in Fisheye we usually look at the LOC of the trunk, unless we can infer from the context that another branch is more appropriate.

### LOC in Fisheye

Fisheye calculates the LOC for the trunk and each branch as defined in the repository (see [here](#) for more information about defining branches in Subversion). Also, Fisheye calculates the LOC for each user, unless that facility is turned off in the repository (see [Store Diff Info](#)). The LOC count will include all files except those identified by the SCM as binary.

Fisheye presents LOC data as charts of the change in LOC over time, and as informational statistics in various places.

- **Chart pages**  
The best way to explore the evolution of LOC in your project is the [LOC chart report](#) where you can easily filter the LOC by branch, author, file extension and date range. Here you can investigate what caused a particular spike in the LOC charts, or find the user whom has the most lines of code blamed on them and how this has changed over time.
- **Repository-specific activity pages**  
These show trunk LOC statistics for the repository, limited to the directory being viewed and its subdirectories. The LOC charts show the LOC for the directory, using trunk LOC unless the directory can be identified as a branch.
- **User pages**  
Here, the statistics pane in the sidebar shows the trunk LOC blamed on the user for the all repositories that have user-specific LOC enabled. The chart shows the trunk LOC from all the repositories that the user has contributed to.
- **The global User List page**  
This shows the trunk LOC for all users from the repositories that have user-specific LOC enabled. Repository-specific user lists (in repositories that have user-specific LOC enabled) show the trunk LOC for the users and committers, limited to the directory being viewed and its subdirectories.
- **Project pages** show a chart of the LOC for all associated repository paths, and statistics include the trunk LOC for those paths.

### User-Specific LOC

The evolution of user-specific LOC over subsequent commits can appear at first glance to be counter-intuitive. It is important to keep in mind that the LOC for a given user is the number of lines in the repository that were last changed by them (as calculated by Fisheye).

A couple of simple examples:

- Alice adds a files with 30 lines to the SCM. Her LOC for this file is now 30. She then edits the file, deletes 10 lines and adds 20 (+20 -10). Her LOC is now 40, as is the LOC of the file.
- Alice adds a files with 30 lines to the SCM. Her LOC for this file is now 30. Now Bob edits the file, deletes 10 lines and adds 20 (+20 -10). Alice now has LOC of 20, because Bob deleted 10 lines that were blamed on her, and Bob has LOC of 20, from the 20 lines he added. The total LOC is still 40.

A user can have LOC on a branch that they have never committed on, *if something that has been blamed on them is copied*. For example, a developer may have never committed to a particular branch, but FishEye may still report a lot of LOC for them in that area.

One current limitation of FishEye's user-specific LOC calculation is the handling of merging. For example, if a file has been changed on both trunk and branch, and the changes made on the branch are merged to trunk, the changes made on branch will generally be blamed on the person who did the merge; **not** the person who made the change.

## Cannot View Lines of Code Information in FishEye

### Symptoms

You cannot view lines of code information in FishEye, for example in [charts](#) or when [viewing the statistics for a user](#).



See [About the Lines of Code metric](#) for more information about the use of the lines of code metric in FishEye.

### Cause

There are three possible causes for this problem:

- Lines of code data will not be shown for users if the [Store Diff Info](#) setting is disabled. If you are viewing a page in FishEye that relates to a particular user or committer, and the Store Diff Info setting is disabled, you will not be able to view any lines of code information for the user.
- Lines of code data is currently not supported for [Mercurial](#) repositories. If you are viewing a page in FishEye that relates to a Mercurial repository, you will not be able to view any lines of code information.
- Lines of code data is currently not supported for [Git](#) repositories. If you are viewing a page in FishEye that relates to a Git repository, you will not be able to view any lines of code information.

### Resolution

Cannot view lines of code information for specific users or committers:

- Enable the Store Diff Info setting in general settings for your repository. See [Configuring Repository Details](#) for further instructions. Please note, you need to perform a full re-index of your repository after enabling this setting, for FishEye to collect the diff information for all revisions in your repository. Please also note, the Store Diff Info setting is always enabled for CVS repositories.

Cannot view lines of code information for Mercurial repositories:

- We have an outstanding feature request for lines of code support in Mercurial. Please vote for this issue: [CRUC-4505](#), if you are experiencing this problem.

Cannot view lines of code information for Git repositories:

- We have an outstanding feature request for lines of code support in Git. Please vote for this issue: [CRUC-4524](#), if you are experiencing this problem.

## Finding your Server ID

Your Server ID can be found in your FishEye administration console, as described below.

**To find your Server ID:**

1. Navigate to FishEye's administration console.
2. Click '**Sys-Info/Support**' under the '**System settings**' section. The 'Server ID' for your FishEye server will be displayed in the 'License' section.



The Server ID should match the one set for your license. You can check this at <http://my.atlassian.com>.

## How Do I Archive a Branch within Perforce

In SVN, a branch exists as a separate directory. However in Perforce, files are given a label to identify them as belonging to the branch. Thus it may not be possible to download the branch as a tarball via FishEye.

You may be able to download the branch as a tarball, depending on your structure:



If it is not a single folder, then it is not possible to download the tarball in your perforce repository.

1. In FishEye, navigate to your perforce repository.
2. In the Constraint section on the left, select the branch. This will return the directories that belong to that branch.
3. If it is one single folder, download the tarball of it. Under `constraint` and `sub directories`, there is a panel tarball giving options on how to download the directory.


## How do I avoid long reindex times when I upgrade?

### *Mitigating Lengthy Re-Index Times*

If re-indexing your repository takes longer than you can allow, you can use a temporary copy of your repository and FishEye instance to reduce downtime during the re-indexing process.

### *Re-indexing With a Temporary Copy of Your FishEye Instance*

[To re-index a temporary copy of your FishEye instance:](#)

1. Make a copy of your FishEye instance to another server. See '[How to Make a Temporary Copy of Your FishEye Instance](#)' below for instructions.
2. Upgrade the temporary FishEye, then start it up, connected to your repository. It will automatically begin the scanning process.
  -  If you are concerned about the repository being overloaded by the scanning process, you can make a copy of that as well. See '[How To Make a Temporary Copy of Your Repository](#)' below for instructions. If you do that, you must edit the `config.xml` of your temporary FishEye instance to point to your temporary repository.
3. The copied instance will run its course without affecting your production instance.
  - a. Shutdown both your servers completely.
  - b. Make a backup of your `FISHEYE_INST` directory.
  - c. Replace the `FISHEYE_INST/var/cache` directory on live FishEye with the `FISHEYE_INST/var/cache` from your test server.
  - d. Download the latest Crucible from [Atlassian downloads](#).
  - e. Follow the instructions in the [Upgrade Guide](#) to upgrade to the new version.
4. The scan of the temporary FishEye instance (and repository, if you copied that also) is complete. You're now free to delete the temporary copy(s).

### How To Make a Temporary Copy of Your FishEye Instance

To make a copy of your FishEye instance, follow the instructions for [Migrating FishEye Between Servers](#).


### How To Make a Temporary Copy of Your Repository

To make a copy of your repository, do the following. Use [rsync](#) (for CVS repositories in the Linux environment) or [svnsync](#) documentation (for Subversion only).

### How to Re-Index a Single Repository on a Test Server

If you need to re-index your repository on your production system but don't want to burden your production server, carry out the following steps:

1. Install another instance of FishEye on a test server (the same FishEye version as the one you are using).
2. Add a repository to Crucible with the exact same name and details as that referenced by the production server.
3. Let that finish indexing. Go to '**Administration**' > '**View Repository List**' > '**Stop**' (shown next to the name of your repository) and disable on both production and test.
4. Copy over the `FISHEYE_INST/var/cache/REPO` directory on the production FishEye with the `FISHEYE_INST/var/cache/REPO` directory from the test server.

 For this procedure, neither server needs to be shut down.

## Mercurial Known Issues

- [CRUC-3466](#): FishEye does not support scanning repositories requiring http authentication, and only supports ssh based remote repos when run within a ssh-agent session with the correct keys added to authenticate against the remote repository.
- [CRUC-3460](#): LOC changes can get counted twice when merged to another branch - once for the branch being merged, and once for the merge commit - this should only affect files modified in both parent trees (not files only modified on one branch).
- [CRUC-3489](#): LOC counts for branches only show totals for the diffs made on the branches without accounting for the initial LOC that existed when the branch was created, thus can appear as negative values!
- [CRUC-3467](#): FishEye will fail to detect files moving from binary to text until subsequent modifications are made.
- [CRUC-3520](#): In the browse file view, FishEye will often fail to "show related revisions" due to copies or moves.
- [CRUC-3408](#): If the watched repository has multiple heads on the same branch, the content searching can sometimes be relevant only for the first head seen.
- [CRUC-3525](#): When entering a partial hash, if it doesn't match it can sometimes result in an internal error within FishEye.
- [CRUC-3474](#): If a file is removed and then another file is copied or moved over the same file within one commit, the ancestor revision is miscalculated and can result in errors in "diff to previous".
- [CRUC-3470](#): Permission changes (and prop changes in repos converted from svn) may result in revisions that have no ancestors - subsequent changes will consider it's parent revision to be their parent revision.
- [CRUC-3582](#): EyeQL searches based on mercurial tags do not work.
- [CRUC-3468](#): Scanning repositories converted from svn (especially using hgsubversion) can result in commits that take a long time to scan (due to the changes produced by merges from other branches).
- [CRUC-3354](#): The revision ID is not displayed along with the hash ID for a commit in all locations, particularly within Crucible reviews.

## What SCM systems are supported by FishEye?

To see the list of SCM systems that is supported by FishEye, see [Supported Platforms](#).

## Installation & Configuration FAQ

### FishEye Installation & Configuration FAQ

- [How to reset the Admin password in Fisheye or Crucible](#)
- [How Do I Configure an Outbound Proxy Server for FishEye](#)
- [How to Remove Crucible From FishEye 2.x or Later](#)
- [How to run Fisheye or Crucible on startup on Mac OS X](#)
- [Can FishEye be run as a Windows service?](#) — FishEye can be run as a service under Microsoft Windows.
- [Can I deploy FishEye or Crucible as a WAR?](#) — Unfortunately FishEye and Crucible can not be deployed as a [WAR](#).
- [Configuring Web Proxy Support for FishEye or Crucible](#)
- [Does Fisheye support SSL \(HTTPS\)?](#)
- [Improve FishEye Scan Performance](#) — This page contains information about improving the performance of FishEye repository scans.
- [Migrating FishEye Between Servers](#) — This page describes the process for migrating FishEye between servers.
- [Setting Up a CVS Mirror with rsync](#) — In situations where running FishEye on the same server as your CVS repository is not practical or possible, you can use the Linux utility **rsync** to mirror the CVS repository contents onto the FishEye server.
- [What are the FishEye System Requirements?](#)

## How to reset the Admin password in Fisheye or Crucible

If you have forgotten/misplaced the admin password, you will need to reset it manually.

To reset the admin password, please edit your `FISHEYE_INST/config.xml` file (make a backup as well before editing).

You will see something like:

```
<?xml version="1.0" encoding="UTF-8"?>
<config control-bind="127.0.0.1:8059" version="1.0" admin-hash="352353256326369233A801FC3">
```

To reset the password to **admin**, please change the "admin-hash" value so that it appears as `admin-hash="21232F297A57A5A743894A0E4A801FC3"`

```
<?xml version="1.0" encoding="UTF-8"?>
<config control-bind="127.0.0.1:8059" version="1.0" admin-hash="21232F297A57A5A743894A0E4A801FC3">
```

Restart Fisheye for this to take effect. You should now be able to access the FishEye Administration page with the password: **admin**. Please change this password immediately from the Administration panel.

## How Do I Configure an Outbound Proxy Server for FishEye

The Java Virtual Machine provides support for outbound proxy servers. To take advantage of this some additional parameters need to be passed to the JVM via the `FISHEYE_OPTS` environment variable:

```
export FISHEYE_OPTS="-Dhttp.proxyHost=proxy.example.org -Dhttp.proxyPort=8080
-Dhttp.nonProxyHosts=*.foo.com|localhost -Dhttp.proxyUser=username -Dhttp.proxyPassword=password"
```

See [Environment Variables](#) for instructions on how to set these parameters.

## How to Remove Crucible From FishEye 2.x or Later

To remove Crucible from a FishEye installation:

1. Go into Administration -> Sys-Info/Support -> Edit Licenses
2. Remove the Crucible license from this screen

**Edit License**

New licenses can be acquired from [my.atlassian.com](http://my.atlassian.com).

Your Server ID is **BCBD-K6VW-8XSU-OWPX**

**FishEye License**

[Redacted License Key]

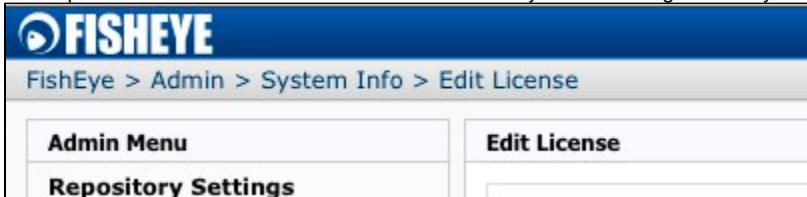
**Crucible License**

Remove the Crucible license key here

Click update to save

Update Cancel

- Click update to save. Crucible will now be disabled and you will no longer see any reference to it in the application.



The process is the same if you would like to remove FishEye and keep Crucible, just remove the FishEye license instead.

## How to run Fisheye or Crucible on startup on Mac OS X



This article is only provided as a guide and has only been tested on Mac OS X 10.5



launchd does not provide support for service dependencies so if you are using an external database, this may not work for you. Fisheye assumes the database is available when it starts, and the startup scripts will not wait for the database to become available.

You need to create a .plist file to create items that will start at boot time. Please refer to [the following page](#) for details:

- 

Here is an example .plist that should work for Fisheye/Crucible:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>Label</key>
  <string>com.atlassian.fisheye</string>
  <key>ProgramArguments</key>
  <array>
    <string>/path/to/FISHEYE_HOME/bin/run.sh</string>
  </array>
  <key>OnDemand</key>
  <false/>
  <key>RunAtLoad</key>
  <true/>
  <key>StandardOutPath</key>
  <string>/path/to/FISHEYE_INST/var/log/fisheye.out</string>
  <key>StandardErrorPath</key>
  <string>/path/to/FISHEYE_INST/var/log/fisheye.out</string>
  <key>EnvironmentVariables</key>
  <dict>
    <key>FISHEYE_INST</key> <string>/path/to/FISHEYE_INST/</string>
    <key>FISHEYE_OPTS</key> <string>-Xms512m -Xmx1024m -XX:MaxPermSize=128m</string>
  </dict>
</dict>
</plist>
```

Customise the `/path/to/FISHEYE_INST/` and `/path/to/FISHEYE_HOME/` with the `FISHEYE_INST` and `FISHEYE_HOME` directories respectively and make any required modifications to `FISHEYE_OPTS`. Save the file as `com.atlassian.fisheye.plist` and then try and load it with:

```
[amyers@erdinger:fecru-2.1.3]$ launchctl load com.atlassian.fisheye.plist
[amyers@erdinger:fecru-2.1.3]$ launchctl start com.atlassian.fisheye
```

Fisheye should now start up and you should be able to access it via your web browser.

## Can FishEye be run as a Windows service?

FishEye can be run as a service under Microsoft Windows.

To run FishEye as a service you can either use [SRVANY](#) and [INSTSRV](#) to run `java.exe` or [create a Java Service Wrapper](#). A mechanism to run FishEye as a service will be incorporated at a later stage. In the meantime, example wrapper files written by FishEye users can be found [here](#).

To install on Windows:

1. Unzip the wrapper zip file into your `FISHEYE_HOME` directory (Note, the end structure should be `FISHEYE_HOME/wrapper`, `FISHEYE_HOME/wrapper/bin`, etc and NOT `FISHEYE_HOME/wrapper/wrapper`, `FISHEYE_HOME/wrapper/wrapper/bin`. The location of the wrapper directory is important).
2. Run `Fisheye-Install-NTService.bat`, found in `FISHEYE_HOME/wrapper/bin`.
3. Start the Fisheye service under the Windows Control Panel.
4. Set your `FISHEYE_INST` within your `FISHEYE_HOME/wrapper/conf/wrapper.conf` as per the instructions below:

Please note, that if you do run as a service, then any [Environment Variables](#) that you want to set, need to be set in your `FISHEYE_HOME/wrapper/conf/wrapper.conf` file.

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

```
# JDK 1.5 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"
```

For example if you wish to add a FISHEYE\_INST environment variable or add the java parameter "MaxPermSize", or the -Xrs options (should be used if running FishEye as a service under Windows, to prevent the JVM closing when an interactive user logs out) then it would be something like:

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

Your memory settings can also be found in this file:

```
# Initial Java Heap Size (in MB)
wrapper.java.initmemory=32

# Maximum Java Heap Size (in MB)
wrapper.java.maxmemory=256
```

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



#### Wrapper Configuration and "-server" Parameter

Please note that the Wrapper configuration provided above uses the `-server` parameter to enable the [Java HotSpot™ 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: no '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 unless you change the sequence to start at `wrapper.java.additional.1`. This is an issue with the Wrapper application.

In this situation it's likely best to install and run Fisheye/Crucible with the JDK to get all the advantages of the `-server` functionality.

## Can I deploy FishEye or Crucible as a WAR?

Unfortunately FishEye and Crucible can not 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.

## Configuring Web Proxy Support for FishEye or Crucible

### Accessing External Hosts

FishEye may need to connect to hosts that are outside your network. For example, in Administration > Server Settings > Update Notifications, FishEye needs to access <http://updates.atlassian.com> to check for updates. If the FishEye server can't access the site it will throw the following error:

```
ERROR - Error while checking for newer versions from http://update.atlassian.com
(update.atlassian.com)
```

### When trying to check if there are newer versions of FishEye or Crucible

In some environments, access to hosts outside the network are forbidden (in which case, you will need to manually check for updates). In other environments access to hosts outside of the network need to go through a proxy.

If you do have a proxy server, you need to tell FishEye how to send its requests through the proxy:

### Configuring an outbound HTTP proxy in Fisheye

Proxy support is configured by passing certain arguments to the Java Virtual Machine on startup (for Fisheye, you can add them to the FISHEYE\_OPTS [Environment Variables](#)). These properties follow the [conventions defined by Sun](#):

- `http.proxyHost`
- `http.proxyPort` (default: 80)

- `http.nonProxyHosts` (default: `<none>`)

At a minimum, you need to define `http.proxyHost` to configure an HTTP proxy. System property configuration is described on the [FISHKB:Configuring System Properties](#) page.

Properties `http.proxyHost` and `http.proxyPort` indicate the proxy server and port that the HTTP protocol handler will use.

```
-Dhttp.proxyHost=proxy.example.org -Dhttp.proxyPort=8080
```

Property `http.nonProxyHosts` indicates the hosts which should be connected to directly and not through the proxy server. The value can be a list of hosts, each separated by a `|`, and in addition a wildcard character (`*`) can be used for matching. For example:

```
-Dhttp.nonProxyHosts=*.foo.com|localhost
```

Note: You may need to escape the pipe character (`|`) in some command-line environments.

If the `http.nonProxyHosts` property is not configured, all web requests will be sent to the proxy.

### Configuring HTTP proxy authentication

Proxy authentication is also configured by providing system properties to Java in your application server's configuration file. Specifically, the following two properties:

- `http.proxyUser` – username
- `http.proxyPassword` – secret

### How it Looks

So an example of your `FISHEYE_OPTS` [Environment Variables](#) will be:

```
FISHEYE_OPTS="-Xms128m -Xmx1024m -XX:MaxPermSize=128m -Dhttp.proxyHost=proxy.example.org  
-Dhttp.proxyPort=8080 -Dhttp.nonProxyHosts=*.foo.com|localhost -Dhttp.proxyUser=USERNAME  
-Dhttp.proxyPassword=SECRET"
```

After having set the `FISHEYE_OPTS` and restarting your server, go to Administration > Sys Info/Support > System Info, and check your JVM Input Arguments to ensure that your server is picking up your `FISHEYE_OPTS` as expected.

## Does Fisheye support SSL (HTTPS)?

FishEye has built-in SSL support from FishEye 2.4 onwards. Read [FishEye SSL Configuration](#) for more information.

## Improve FishEye Scan Performance

This page contains information about improving the performance of FishEye repository scans.

### Background Information

When you add a repository, FishEye needs to perform a once-off scan through the repository to build up its initial index and cache. This scan can take some time. Until this scan is complete, you may find that some data is not displayed. As a guide, FishEye should be able to process about 100KB-200KB per second on an averaged-size PC. If FishEye is accessing the repository over the network (e.g. over a NFS mount), then you should expect the initial scan to take longer.

### General Improvements

You can increase the speed of your scans using the following options:

- If your repository is non-local, set up a local repository mirror on the FishEye server. This will provide a major speed boost for anyone scanning a repository across a network.
- [Exclude](#) unused file types, unused directories and specific large files from FishEye.

### Improve Update Performance during Initial Scan

One option is break large repositories into multiple smaller repositories. While this technique will not improve the overall initial scan time, it allows for all fully scanned repositories to be updated while the initial scan is still being performed on those remaining.



In FishEye 1.3.4 and later, the initial and incremental scans happen in separate, single threads. So, splitting the repositories will allow incremental scans to run concurrently alongside the initial scans. You may also wish to split projects into separate repositories, since permissions in FishEye are applied on a per-repository basis.

### Improving Initial Scan performance for an SVN Repository

The http/s protocol has the slowest performance during the initial scan. The svn protocol (`svn://`) is faster and the file protocol (`file:///`) is the fastest.

Therefore if you find your initial scan takes an extended amount of time (in some cases weeks), you should consider switching over from the http/s protocol to the svn or file protocol to define the location of your SVN repository. (Use [svnsync](#) to mirror the repository onto the fisheye server, so that you can access it with the file protocol.)

```
E.g. Switch from
https://example.com/svn/project/
to
svn://example.com/svn/project/
or
file:///home/user/some/location/svn/project
```

In order for SVN protocol to work you need to have set up an [svnserve](#) based server.

### Performance Support

If you have implemented at least one of the suggestions above but are still experiencing slow performance, ask us for help:

1. First read the [Tuning Fisheye](#) document.
2. Turn on debug logging using the [command line debug flag](#).
3. Allow FishEye to continue its initial scan overnight.
4. Create a new [support request](#) in the FishEye project, including your server environment and log files with the problem description.

## Migrating FishEye Between Servers

This page describes the process for migrating FishEye between servers.

If you have defined the `FISHEYE_INST` [Environment Variable](#), then upgrades and migrations of your FishEye instance will be relatively simpler.

### If you have defined `FISHEYE_INST`

- 1) Shut down your current FishEye server completely.
- 2) Copy the `FISHEYE_INST` directory to your destination server.
- 3) Copy and set up all of your [Environment Variables](#) from your source server to your destination server (remembering to set up your `FISHEYE_INST` directory to point to the location where you copied the data to in Step 2).
- 4) Install FishEye on your destination server.
- 5) Start FishEye. It should pick up your environment variables, and from that access your `FISHEYE_INST` directory, which contains your configuration.

### If you have not defined `FISHEYE_INST`

- 1) Shut down your current FishEye server completely.
- 2) Copy the `FISHEYE_HOME/config.xml` file and `FISHEYE_HOME/var` folder into to one folder on your destination server, called `fisheye_inst`.
- 3) Copy and set up all of your [Environment Variables](#) from your source server to your destination server. In addition to this, set up the `FISHEYE_INST` env variable such as follows

```
export FISHEYE_INST=/path/to/fisheye_inst
```

replacing the `/path/to/fisheye_inst` with the fully qualified path to the `fisheye_inst` folder you set up in Step 2.

- 4) Install FishEye on your destination server.
- 5) Start FishEye. It should pick up your environment variables, and from that access your `FISHEYE_INST` directory, which contains your configuration.




#### External Databases

Please note that the steps above will only move your Fisheye data. If you are using an external database, it will assume that your database is accessible from the new server.

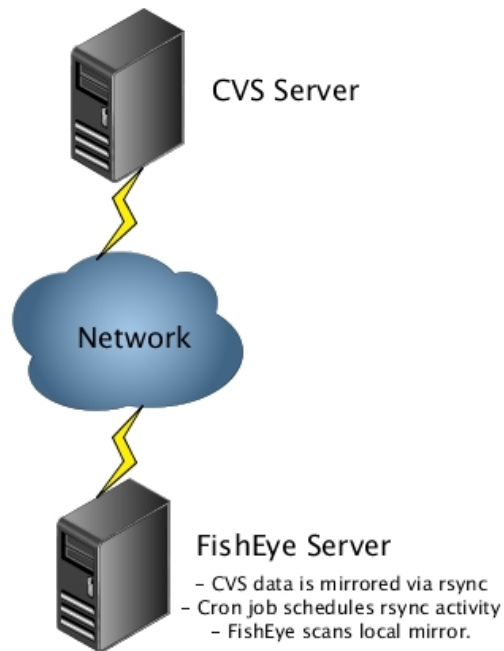
## Setting Up a CVS Mirror with rsync

In situations where running FishEye on the same server as your CVS repository is not practical or possible, you can use the Linux utility **rsync** to mirror the CVS repository contents onto the FishEye server. This is possible because CVS data is stored in a reasonably simple form in the file system.

We recommend this to achieve best performance when FishEye and CVS cannot be hosted on the same machine.

 This workaround requires the ability to SSH into both machines. Linux and Mac OS X operating systems have rsync built in. For Windows, you will need to [install rsync](#).

*Diagram: A Scenario Where rsync is Required*



To set up a CVS mirror with rsync,

1. You will need to set up a local directory on the FishEye server for the mirrored CVS content, ensuring that this server has ample disk space to store the current CVS database and any future space requirements.
2. We will refer to your CVS instance as '**CVS\_HOME**' and your new 'mirror directory' on the FishEye server as '**MIRROR\_HOME**'.
3. Type the following rsync command into the console of the FishEye server:

```
rsync --backup CVS_HOME MIRROR_HOME
```

A real-world example would look something like this:

```
rsync --backup \\julius\webapps\cvs\data \\datastore\FishEye\cvs-mirror\
```

4. Schedule the rsync command to run regularly with a [cron](#) job. Running hourly is a good default interval. Under Windows, use a native task scheduler.
5. With the cron job active, you will have established rsync to run an hourly comparison of the two directories and copy any changes across to the mirror directory as they occur. Note that running the rsync process will impact the FishEye server's performance (and also the CVS server's) to a certain degree.
6. In the FishEye admin interface, add the local 'mirror directory' as a new CVS repository and run the initial scan. As this is local data on the same file system, FishEye's scanning of this data will be optimal.
7. Adjust the [FishEye Updater](#) Full Scan period to one hour (the default is 15 minutes).
8. The rsync configuration is now complete. Monitor the disk space on both servers to ensure there is adequate headroom for the mirroring process.

For more information on the syntax for rsync, visit the [rsync home page](#).

## What are the FishEye System Requirements?

Visit the FishEye [Supported Platforms](#).

## Licensing FAQ

### FishEye Licensing FAQ

- [Are anonymous users counted towards FishEye's licence limits?](#) — Users accessing FishEye anonymously are, for all intents and purposes, *unlimited* users.
- [What are the Starter License restrictions?](#)

## Are anonymous users counted towards FishEye's licence limits?

The short answer is no. If you are using FishEye in your organisation but most users require only anonymous access (that is, you have not set access restrictions on the content in your repositories), then an unlimited number of anonymous users can be accommodated regardless of the FishEye licence you are using.

Users accessing FishEye anonymously are, for all intents and purposes, *unlimited* users.

However, if your users require permissions and controlled access to specific content in your repositories, then they will need to log in to FishEye. Hence, these users will need to create accounts and will be factored into the licence limit.

## What are the Starter License restrictions?

This page explains the limitations of the FishEye Starter license and provides general information about using this license in production.

On this page:

- [What is a Starter License?](#)
- [What are the Starter License restrictions?](#)
- [What happens if I exceed the Starter License limits?](#)
  - [Evaluate](#)
  - [Upgrade](#)
  - [Reconfigure your repository](#)
- [Frequently Asked Questions](#)

## What is a Starter License?

Starter licenses are low-cost licenses that allow small teams to make use of Atlassian products (see [more information](#) ). FishEye Starter licenses were introduced with the release of FishEye 2.0.5 (October 2009).

## What are the Starter License restrictions?

FishEye Starter Licenses are restricted to no more than:

- 10 users in FishEye
- 10 [committers](#) total per [repository](#)
- 5 repositories

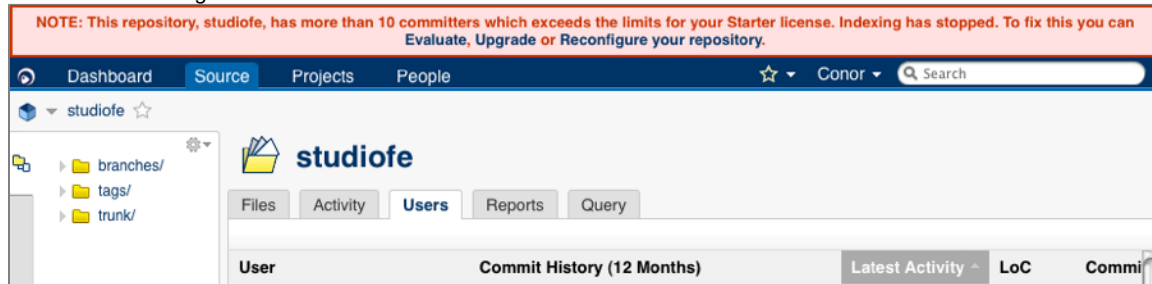
## What happens if I exceed the Starter License limits?

If you have more than five repositories, FishEye will prevent more than five repositories from being enabled at any given time. Administrators can control which five repositories are enabled.

If you exceed more than ten [committers](#) in a [repository](#), a warning will appear at the top of pages for the entire system, stating the following:

*NOTE: This repository, (repository-name) has more than ten committers which exceeds the limits for your Starter license. Indexing has stopped. To fix this, you can 'Evaluate', 'Upgrade' or 'Reconfigure your repository'.*

Screenshot: Warning for Starter License Limits



The links in this warning will lead you to the following solutions:

### Evaluate

30-day evaluation licenses are available to allow you to [try out FishEye](#) and other Atlassian products. You can select a license that allows more users than your current license.

### Upgrade

You can upgrade your license at any time (via the [Atlassian online store](#)), which will remove the [committer](#) and [repository](#) limits which apply to the Starter License. Please ensure to restart your repository, after the license upgrade, to ensure the changes are picked up for the new committer limit.

### Reconfigure your repository

This option lets you configure your repository to remain within the limits of the Starter License. You can take the following actions to reduce the scope of FishEye's indexing:

1. **Change the [repository](#) definition to look at a subset of your repository**  
Typically this involves setting the path within your repository that you wish FishEye to index. [Read more.](#)
2. **Exclude parts of the repository**  
You can exclude portions of your repository that you are not interested in. [Committers](#) that are active in only these areas will not appear in FishEye and not be included in the committer count. [Read more.](#)
3. **Set a starting point**  
Some of the FishEye SCM integrations allow you to configure a starting revision from which to start indexing. All [commits](#) prior to this starting point are not included in FishEye and do not contribute to the committer count. [Read more.](#)

Once you have reconfigured your repository, you will need to re-index the repository, allowing you to remain under the limits of the Starter license.

## Frequently Asked Questions

Question	Answer
----------	--------

What happens when the 11th unique committer is encountered during indexing?	For all SCMs other than CVS FishEye will index all revisions up to but not including the revision that introduced the 11th committer. Since CVS is indexing is file-by-file based, FishEye will index files until it reaches the committer limit. Remaining files in the repository are not indexed. This means only files which have been indexed will be displayed in changesets and changesets may be incomplete.
What happens when a FishEye instance with a Starter license is started, using existing indexes with more than five repositories?	FishEye will only start indexing on the first five repositories. An administrator can use admin UI to adjust which repositories are enabled and hence control the five repositories that are started. FishEye should then be restarted.
What happens when a FishEye instance with a Starter license is started, using existing indexes with one or more repositories with more than ten committers?	FishEye will display all information currently indexed but for each repository that has reached the ten committer limit, no further revisions will be indexed.
What happens on upgrade from a Starter license, if indexing has been paused due to the committer limit being reached?	On restart of FishEye, indexing will resume for all repositories. Each repository can be restarted individually to avoid restarting FishEye. Due to the nature of CVS indexing, we recommend reindexing any CVS repositories which have reached the committer limit prior to the license upgrade.
What happens when upgrading from a Starter license, when repositories have not started due to the repository limit being reached?	On restart of FishEye, all enabled repositories will start. Each repository can be restarted individually to avoid restarting FishEye.
What happens if my evaluation license has expired and I upgrade to a Starter license, however I have exceeded the Starter license limitations?	As described above, a maximum of five repositories will start and for any repository with more than 10 committers, no further indexing will occur. All existing indexed content is retained and can be viewed.
What happens when downgrading to a Starter license, where the repository limit has been exceeded?	A maximum of five of your configured repositories will start running. The remainder will not start but will continue to be available.
What happens when downgrading to a Starter license, where the committer limit has been exceeded for one or more repositories?	No further indexing will occur for the repositories where the committer limit has been exceeded.

## Subversion FAQ

### FishEye Subversion FAQ

- [Configuring Start Revision based on date](#) — For Subversion repositories FishEye has the ability to configure a **Start Revision** parameter to allow you to only index content from a given point in your repository.
- [Errors 'SEVERE assert' or 'Checksum mismatch'](#) — SVNKit may have problems with older version Subversion servers - versions 1.1.x and prior.
- [FishEye fails to connect to the Subversion repository after a short time of successful operation.](#) — On Unix systems, the `svn://` protocol is usually handled by `inetd` or `xinetd`. These daemons apply, by default, a connection per second limit to incoming connections. Any connections above this rate are rejected by the server.
- [How can FishEye help with merging of branches in Subversion?](#) — In merge management, the main advantages of FishEye come from its search functionality. If you record the revisions merged when you check in a merge result, you can find this information in FishEye easily for the next merge operation.
- [SVN Authentication Issues](#) — If you have defined multiple repositories in FishEye for the same Subversion server and those repositories use different credentials, FishEye may not use the correct credentials.
- [Why do I need to describe the branch and tag structure for Subversion repositories?](#) — In Subversion, branches and tags are defined by convention, based on their path within a repository, and not directly defined by the repository. A few different layout alternatives are commonly used. It is also possible that you are using your own custom layout. As a result you need to describe to FishEye which paths in your repository are used as [branches](#) and [tags](#).
- [Why don't all my tags show up in FishEye?](#)

## Configuring Start Revision based on date

For Subversion repositories FishEye has the ability to configure a **Start Revision** parameter to allow you to only index content from a given point in your repository.

Quite often users will find it helpful to index from a revision on a given date. For example, you may want to only index SVN data in the past year. To determine the revision based on date, you can use the following command:

```
svn log -r {YYYY-MM-DD}:HEAD <SVN_URL> -l 1
```

The output of this command will be the revision number closest to the date that you provide.

## Errors 'SEVERE assert' or 'Checksum mismatch'

When using SVNKit, you may see errors in the FishEye log such as 'SEVERE: assert #B' or 'Checksum mismatch'.

SVNKit may have problems with older version Subversion servers - versions 1.1.x and prior. If this is the case you should either use the native JavaHL layer or upgrade your Subversion server to a more recent version.

## FishEye fails to connect to the Subversion repository after a short time of successful operation.

If you use the `svn://` protocol to access a Subversion repository, you may notice that FishEye fails to connect to the repository after a short time of successful operation.

On Unix systems, the `svn://` protocol is usually handled by `inetd` or `xinetd`. These daemons apply, by default, a connection per second limit to incoming connections. Any connections above this rate are rejected by the server.

Two options for fixing this problem:

- Ask your system administrator increase the connection rate allowed for the `svn` connection by updating the `xinetd` configuration, or
- Specify a connection per second limit in your FishEye repository definition, to prevent FishEye from exceeding the `xinetd` limits.

## How can FishEye help with merging of branches in Subversion?

FishEye gives you a logical view of your branched files so you can see activity on a single file across multiple branches/trunk.

In merge management, the main advantages of FishEye come from its search functionality. If you record the revisions merged when you check in a merge result, you can find this information in FishEye easily for the next merge operation.

As an example, let's say you have a branch `dev` created at revision 1300 from `trunk`. Development has proceeded on both `trunk` and `dev`. At some point you wish to add the latest `trunk` changes into the `dev` branch. Let's say that is at revision 1400. When you check in the results of this merge, you would use some standard format checkin comment such as:

```
merge from trunk to dev 1300:1400
```

When you come to do the next merge, say at revision 1500, you can use FishEye search to find this checkin comment and know what the starting point for the merge should be. You can then check this in as:

```
merge from trunk to dev 1400:1500
```

Merges back to `trunk` from the `dev` branch are managed in the same way.

## SVN Authentication Issues

If you have defined multiple repositories in FishEye for the same Subversion server and those repositories use different credentials, FishEye may not use the correct credentials.

FishEye does not directly control when authentication information is used to access Subversion repositories. It delegates this operation to the JavaHL layer in use. JavaHL will ask FishEye to supply credentials when required, using a callback. The default JavaHL layer shipped with FishEye, `svnkit`, can cache credentials at the server level rather than at the repository level.

If you experience this problem, you can configure FishEye to [use the native JavaHL implementation](#), which will correctly apply the appropriate credentials.

## Why do I need to describe the branch and tag structure for Subversion repositories?

In Subversion, branches and tags are defined by convention, based on their path within a repository, and not directly defined by the repository. A few different layout alternatives are commonly used. It is also possible that you are using your own custom layout. As a result you need to describe to FishEye which paths in your repository are used as [branches and tags](#).

It is very important that you correctly define in FishEye the layout you are using. If you do not, FishEye will not know which paths represent tags and branches. This will prevent FishEye from relating different versions of the same logical file across separate paths within your repository. It will

also mean that FishEye's cache will be much larger as each tagged path will be indexed separately. This will result in an increase in the initial scan time and may reduce runtime performance.

If you are having trouble using Subversion tags, see [How Tags Work in Subversion](#).

## Why don't all my tags show up in FishEye?

This page gives a detailed technical explanation of why certain issues affect Subversion users.

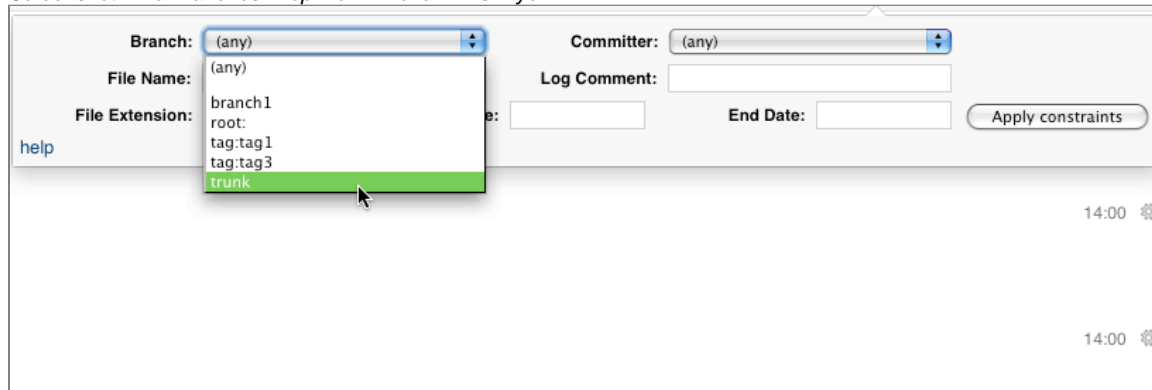
On this page:

- [Introduction](#)
- [How Subversion Processes Tags and Branches](#)
- [An Example from a Live Subversion Repository](#)
- [Avoid Modifications in the Tag Area](#)
- [Conclusion](#)

### Introduction

When accessing Subversion via FishEye, you may see references to tags in the branches drop-down menu. In the example below, we can see **tag1** and **tag3** in the drop-down menu but not **tag2**:

Screenshot: The Branches Drop-Down Menu in FishEye



In actual fact, the branches drop-down menu shows only branch names. It does not show tags, but in some instances FishEye will synthesise a branch name to record certain operations. To understand how this occurs, you will need some background knowledge on Subversion tagging (introduced in the following segments of this page).

### How Subversion Processes Tags and Branches

**i** In Subversion, tags are only a convention and are typically the result of a copy operation from the trunk to a tag area in the tags directory. When FishEye processes this copy operation, it recognises that the destination is a tag directory and tags the source file on trunk with the name of the tag.

i.e. FishEye is interpreting the Subversion copy to a tag directory as a tagging operation on the trunk files.

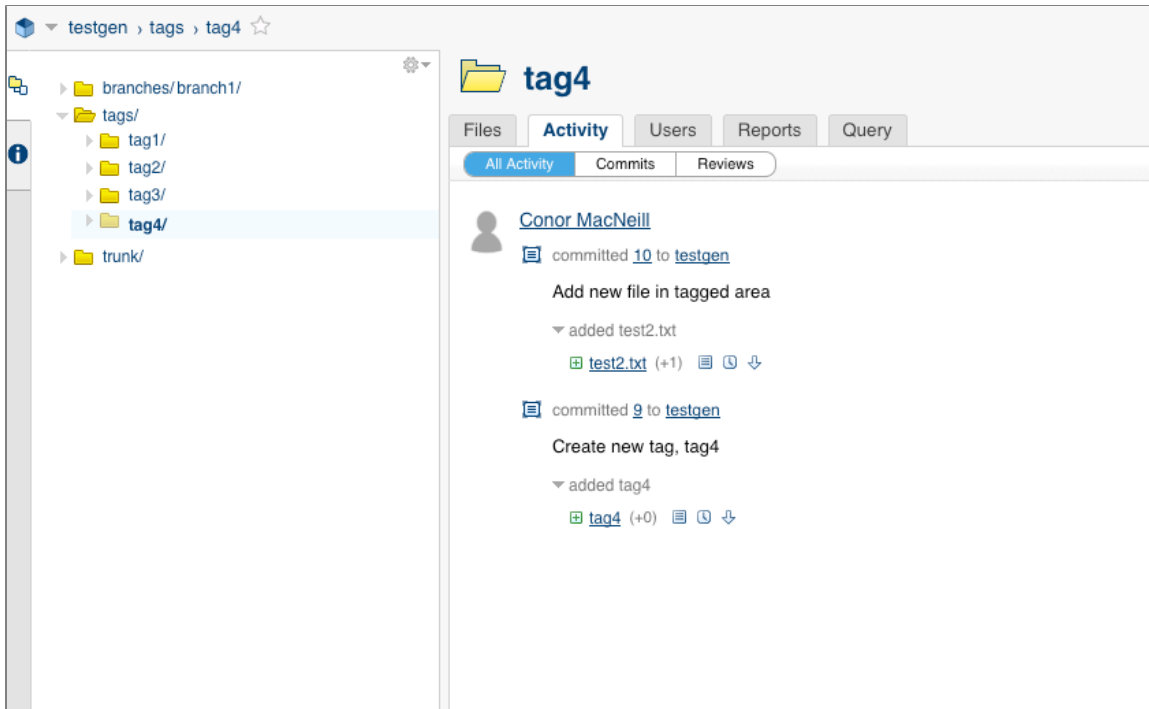
For regular changes in your Subversion repository, FishEye records each change against a branch where the change took place. If, however, after tagging, you make a change to a file in the tagged area, you are making a change outside trunk or a recognized branch. FishEye records such changes by creating an artificial branch name and associating that branch name with the change. The branch name is derived from the tag name by prepending "tag:" (in other words, the characters "tag:" appear as the first part of the name). The same thing will occur if you create a new file in the tagged area which does not come from an existing branch or trunk.

This is the reason you see some of your tags in the branch drop down. It means that for those tags, you have made a modification after the tagging operation.

### An Example from a Live Subversion Repository

For example, consider **tag4** in this screenshot:

Screenshot: Subversion Tag Changes in FishEye



There are two changes here. The first creates the tag and the second adds a new file in the tagged area. This will result in the creation of an artificial branch, called "**tag:tag4**" within FishEye.

### ***Avoid Modifications in the Tag Area***

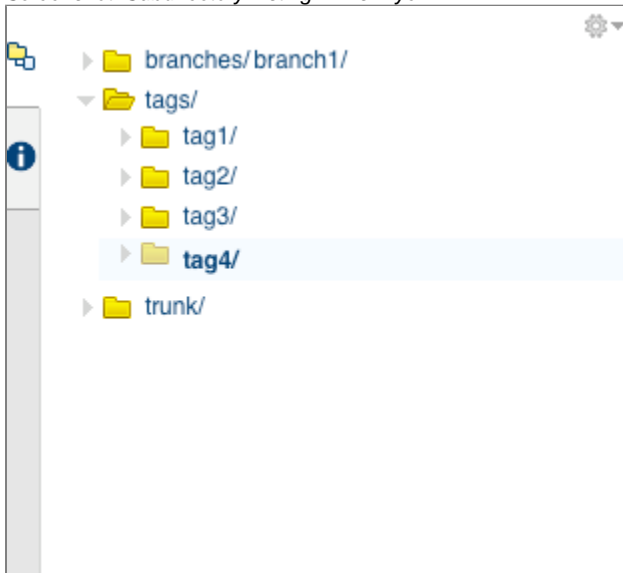
In general, it's not good practice to make changes in the tag areas of a Subversion repository. Such changes can easily get lost if they are not applied to trunk or a current branch. It is preferable to make the change in trunk or a branch and then create a new tag to capture the update. Nevertheless, since Subversion tagging is merely a convention, this is sometimes convenient. FishEye handles this situation as described above.

### ***Conclusion***

In general a lot of systems have a large number of tags which would make the drop-down unworkable. This is the reason the tag field is a text-entry box below the branch drop-down menu in FishEye.

Since tags and branches are based on location convention in Subversion, the constraint is less effective than on other SCMs. You can always see the tag or branch you are interested in, based on its location in the repository. For example, the subdirectory listing here shows all tags:

*Screenshot: Subdirectory Listing in FishEye*



**i** If you want to constrain to a tag, enter the tag name in the tag field of the constraint filter.



## Support Policies

Welcome to the support policies index page. Here, you'll find information about how Atlassian Support can help you and how to get in touch with our helpful support engineers. Please choose the relevant page below to find out more.

- [Bug Fixing Policy](#)
- [How to Report a Security Issue](#)
- [New Features Policy](#)
- [Patch Policy](#)
- [Security Advisory Publishing Policy](#)
- [Security Patch Policy](#)
- [Severity Levels for Security Issues](#)

To request support from Atlassian, please raise a support issue in our online support system. To do this, visit [support.atlassian.com](https://support.atlassian.com), log in (creating an account if need be) and create an issue under FishEye. 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.

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 [How to Get Legendary Support from Atlassian](#) for more support-related information.

## How to Report a Security Issue

### Finding and Reporting a Security Vulnerability

If you find a security bug in the product, please open an issue on <http://jira.atlassian.com> in the relevant project.

- Set the priority of the bug to 'Blocker'.
- Provide as much information on reproducing the bug as possible.
- Set the security level of the bug to 'Developer and Reporters only'.

All communication about the vulnerability should be performed through JIRA, so that Atlassian can keep track of the issue and get a patch out as soon as possible.



If you discover a security vulnerability, please attempt to create a test case that proves this vulnerability locally before opening either a bug or a support issue. When creating an issue, please include information on how the vulnerability can be reproduced; see <http://confluence.atlassian.com/display/DOC/Bug+Fixing+Policy> for general bug reporting guidelines. We will prioritise fixing the reported vulnerability if your report has information on how the vulnerability can be exploited.

### Further reading

See [How to Get Legendary Support from Atlassian](#) for more support-related information.

## New Features Policy

### Summary

- We encourage and display customer comments and votes openly in our issue tracking systems, <http://jira.atlassian.com> and <http://studio.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:

- **Direct feedback** from face to face meetings with customers, and through our support and sales channels.
- **Availability of staff** to implement features.
- **Impact** of the proposed changes on the application and its underlying architecture.
- How **well defined** the requested feature is (some issues gain in popularity rapidly, allowing little time to plan their implementation).
- 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 systems, <http://jira.atlassian.com> and <http://studio.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 our community [forums](#).

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 [How to Get Legendary Support from Atlassian](#) 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 (e.g. JIRA 3.13.5) 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)
- OR
- The issue is a security issue, and falls under our [Security Patch Policy](#).

Atlassian does not provide patches for non-critical bugs.

Provided that a patch does not impact the quality or integrity of a product, Atlassian will ensure that patches supplied to customers are added to the next maintenance release. Customers [should watch](#) a filed bug in order to receive e-mail notification when a "Fix Version" is scheduled for release.

Patches are generally attached to the relevant <http://jira.atlassian.com> issue.

### ***Further reading***

See [How to Get Legendary Support from Atlassian](#) for more support-related information.

## **Security Advisory Publishing Policy**

### **Publication of Security Advisories**

When a 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. This applies to all security advisories, including severity levels of critical, high, medium and low.
- We will send a copy of all 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](http://my.atlassian.com) and click 'Email Prefs' 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.

Early warning of critical security vulnerabilities:

- If the vulnerability is rated critical (see our criteria for setting [severity levels](#)) we will send an early warning to the 'Technical Alerts' mailing list approximately one week before releasing the fix. This early warning is in addition to the security advisory itself, described above.
- However, if the vulnerability is publicly known or being exploited, we will release the security advisory and patches as soon as possible, potentially without early warning.

### ***Further reading***

See [How to Get Legendary Support from Atlassian](#) for more support-related information.

## **Security Patch Policy**

### **Product Security Patch Policy**

Atlassian makes it a priority to ensure the customers' systems cannot be compromised by exploiting vulnerabilities in Atlassian products.

### ***Scope***

This page describes when and how we release security patches and security upgrades for our products. It does not describe the whole of

disclosure process that we follow. It also excludes Studio, since Studio will always be patched by Atlassian without additional notifications.

### **Critical vulnerabilities**

When a **Critical** security vulnerability is discovered by Atlassian or reported by a third party, Atlassian will do all of the following:

- Issue a new, fixed release for the current version of the affected product as soon as possible, usually in a few days.
- Issue a binary patch for the current release.
- Issue a binary patch for the latest maintenance release of the previous version of the product.
- Patches for older versions or releases normally will not be issued.

Patches will be attached to the relevant JIRA issue. You can use these patches as a "stop-gap" measure until you upgrade your installation in order to fully fix the vulnerability.

### **Non-critical vulnerabilities**

When a security issue of a **High, Medium or Low** severity is discovered, Atlassian will do all of the following:

- Include the fix into the next scheduled release, both for the current and previous maintenance versions.
- Where practical, provide new versions of plugins or other components of the product that can be upgraded independently.

You should upgrade your installation in order to fix the vulnerability.

### **Other information**

Severity level of vulnerabilities is calculated based on [Severity Levels for Security Issues](#).

Visit our general [Atlassian Patch Policy](#) as well.

### **Examples**

**Example 1:** A critical severity vulnerability is found in a (hypothetical current release) JIRA 5.3.2. The last bugfix release in 5.2.x branch was 5.2.3. In this case, a patch will be created for 5.3.2 and 5.2.3. In addition, new bugfix releases, 5.3.3 and 5.2.4, which are free from this vulnerability, will be created in a few days.

**Example 2:** A high or medium severity vulnerability is found in the same release as in the previous example. The fix will be included into the currently scheduled releases 5.3.3 and 5.2.4. Release schedule will not be brought forward and no patches will be issued. If the vulnerability is in a plugin module, then a plugin upgrade package may still be supplied.

### **Further reading**

See [How to Get Legendary Support from Atlassian](#) 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](https://first.org) web site.

CVSS scores are mapped into the following severity ratings:

- Critical
- High
- Moderate
- Low

An approximate mapping guideline is as follows:

CVSS score range	Severity in advisory
0 – 2.9	Low
3 – 5.9	Medium
6.0 – 7.9	High
8.0 – 10.0	Critical

Below is a summary of the factors which illustrate types of vulnerabilities usually resulting in a specific severity level. Please keep in mind that this

rating does not take into account details of your installation.

**Severity Level: Critical**

Vulnerabilities that score in the Critical range usually include:

- 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 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: Moderate**

Vulnerabilities that score in the Moderate range usually have 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 [How to Get Legendary Support from Atlassian](#) for more support-related information.

## Troubleshooting

## FishEye Troubleshooting

- [After I commit a change to my CVS repository, it takes a long time before it appears in FishEye.](#) — If you do not have a `CVSROOT/history` file, then a commit will not appear in FishEye until after FishEye has done a periodic full scan of your repository. You can configure the period of this scan in the Admin pages.
- [FishEye freezes unexpectedly](#) — If your FishEye 2.0 or 2.0.1 instance freezes unexpectedly, this could be caused by a known issue with FishEye and MySQL Enterprise Server database technology.
- [Generating a Thread Dump Externally](#) — If FishEye stops responding or is showing poor performance, providing thread dumps to support can help diagnose the problem.
- [I have installed FishEye, and the initial scan is taking a long time. Is this normal?](#) — As a guide, FishEye should be able to process about 100KB-200KB per second on an averaged-size PC. If FishEye is accessing the repository over the network (e.g. over a NFS mount), then you should expect the initial scan to take longer.
- [I have installed FishEye, but there is no data in the Changelog.](#) — When you add a repository, FishEye needs to scan through the repository to build up its index and cache. This scan can take some time. Until this scan is complete, you may find that some data is not displayed.
- [Initial scan and page loads are slow on Subversion](#) — It's possible that you've mis-configured your tag and branch structure and caused FishEye to process some or all files as trunk files. You should [recheck your tag configuration](#).
- [It seems that FishEye's HTTP Header is Too Small](#)
- [JIRA Integration Issues](#)
- [Message 'org.tigris.subversion.javahl.ClientException svn Java heap space'](#) — The Java heap space needs to be increased to an acceptable size. See the FishEye [Tuning](#) documentation for more information.
- [On my Red Hat Linux system, after running for several days FishEye freezes and does not accept any more connections.](#) — On some Linux systems (particularly RH9), there are socket problems between the JVM and the kernel. To fix this, you need to set the `LD_ASSUME_KERNEL` environment variable before starting FishEye.
- [Perforce branches are being indexed as part of the head branch](#)
- [Problems with very long comments and MySQL migration](#) — There is a known issue with FishEye 2.0.x and very long comments when migrating your database to MySQL Enterprise Server.
- [URLs with encoded slashes don't work, especially in Author constraints](#) — If the author names in your repository contain slashes or back-slashes, and you are using Apache, you may run into a problem where these characters are incorrectly escaped.

## After I commit a change to my CVS repository, it takes a long time before it appears in FishEye.

If possible, FishEye will monitor and parse the `CVSROOT/history` file in your repository to quickly work out what has changed. You may want to check with your CVS administrator to ensure this feature of CVS is turned on.

If you do not have a `CVSROOT/history` file, then a commit will not appear in FishEye until after FishEye has done a periodic full scan of your repository. You can configure the period of this scan in the Admin pages.

## FishEye freezes unexpectedly

### Issue Symptoms

If your FishEye 2.0 or 2.0.1 instance freezes unexpectedly, this could be caused by a known issue with FishEye and MySQL Enterprise Server database technology.

This issue manifests itself in some FishEye pages returning a server timeout error. To identify the issue, check the FishEye error log. For this issue, the following output will appear in the error log:

```
2009-07-15 15:34:45,555 ERROR [btpool0-519] fisheye.app HibernateUtil-commitTransaction - Commit fail
msg-0:Could not execute JDBC batch update
2009-07-15 15:34:45,556 ERROR [btpool0-519] fisheye.app HibernateUtil-commitTransaction - Commit fail
msg-1:Lock wait timeout exceeded; try restarting transaction
2009-07-15 15:34:45,557 ERROR [btpool0-519] fisheye.app HibernateUtil-commitTransaction - Commit
failed rolling back.
...
...
Caused by: java.sql.BatchUpdateException: Lock wait timeout exceeded; try restarting transaction
at com.mysql.jdbc.ServerPreparedStatement.executeBatch(ServerPreparedStatement.java:647)
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 FishEye 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 FishEye instance. This will return FishEye to normal operation.

The FishEye development team is actively working on a solution and this be part of an upcoming point release of FishEye.

### Requesting Support

If you require assistance in resolving the problem, please [raise a support request](#) under the FishEye project.


## Generating a Thread Dump Externally

If Fisheye stops responding or is showing poor performance, providing thread dumps to support can help diagnose the problem.

### Generating a Thread Dump for Windows

To take a thread dump:

1. Visit <http://www.adaptj.com/root/main/download> and click Launch
2. Click Run for any security warnings
3. Select Process -> Thread Dump
4. Under Process Id, select the '...' button.
5. From the drop-down list, select the Confluence process. Users running Fisheye, select the 'Java ...' option.
6. Ensure that the "Thread dump" and "Keep Remote Thread Running" is selected.
7. Click OK to capture the thread dump.
8. Save the output to a file, eg 'threaddump.log'

 If you were asked by Atlassian technical support to create the thread dump, please take 4 thread dumps with a time interval in between (eg. 30 secs) so we can see some patterns. Attach the log file to the support ticket.



Alternatively, if you are **not** running Fisheye via run.bat, click on the console and press <CTRL>+BREAK

### Generating a Thread Dump on Linux, including Solaris and other Unixes

Find the process ID of the JVM and use the **ps** command to get list of all processes:

```
kill -3 <pid>
```

**Note:** This will not kill your server (so long as you included the "-3" option, no space in between).

The thread dump will be printed to Fisheye's standard output (fisheye.out).

If you have trouble generating the thread dumps with this method, then use the method "Generating a Thread dump for Windows" as they can also apply for linux, etc.

### Output

Standard logging for Fisheye is sent to the `FISHEYE_INST/var/log/fisheye-debug.log.*` files, in the `FISHEYE_INST` directory. Thread dumps are an exception since they dump the threads of the entire application server - they'll appear in the `FISHEYE_INST/var/log/fisheye.out` file. You can search for the term "thread dump" in the log file for the beginning of the dump.

### Thread Dump Tools

- [Samurai](#)
- [Thread Dump Analyzer TDA](#) TDA 1.0 Final can be obtained from the `java.net`

## I have installed FishEye, and the initial scan is taking a long time. Is this normal?

When you add a repository, FishEye needs to scan through the repository to build up its index and cache. This scan can take some time. Until this scan is complete, you may find that some data is not displayed.

As a guide, FishEye should be able to process about 100KB-200KB per second on an averaged-size PC. If FishEye is accessing the repository over the network (e.g. over a NFS mount), then you should expect the initial scan to take longer.

For more details, see [Improve FishEye Scan Performance](#).

## I have installed FishEye, but there is no data in the Changelog.

When you add a repository, FishEye needs to scan through the repository to build up its index and cache. This scan can take some time. Until this scan is complete, you may find that some data is not displayed.

As a guide, FishEye should be able to process about 100KB-200KB per second on an averaged-size PC. If FishEye is accessing the repository over the network (e.g. over a NFS mount), then you should expect the initial scan to take longer.

## Initial scan and page loads are slow on Subversion

### *Background Information*

When you add a repository, FishEye needs to perform a once-off scan through the repository to build up its initial index and cache. This scan can take some time. Until this scan is complete, you may find that some data is not displayed. As a guide, FishEye should be able to process about 100KB-200KB per second on an averaged-size PC. If FishEye is accessing the repository over the network (e.g. over a NFS mount), then you should expect the initial scan to take longer. Read on if your scan appears to be considerably slower than expected.

### *Solutions*

It's possible that you've mis-configured your tag and branch structure and caused FishEye to process some or all files as trunk files. You should [recheck your tag configuration](#).

If that fails, then the Atlassian support team will be happy to help you with this issue. Please [sign up for a support account](#) if you don't have one already, then login and [create a FishEye support request](#).

Users with very large or non-local repositories may be able to [improve their FishEye scan performance](#).

## It seems that FishEye's HTTP Header is Too Small

If you are receiving errors about FishEye's HTTP header being too small, it is adjustable. See the page on [Setting JVM System Properties](#) for instructions.

## 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 FishEye, an error will occur. Depending on the error returned from JIRA, FishEye 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 FishEye debug log, named `fisheye-debug.log.YYYY-MM-DD` under the `dist.inst/var/log` folder of your FishEye installation and 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.

## Message 'org.tigris.subversion.javahl.ClientException svn Java heap space'

When adding a new repository and on the initial scan, you may receive messages similar to this in the logs:

```
org.tigris.subversion.javahl.ClientException: svn: Java heap space
```

The Java heap space needs to be increased to an acceptable size. See the FishEye [Tuning](#) documentation for more information.

## On my Red Hat Linux system, after running for several days FishEye freezes and does not accept any more connections.

On some Linux systems (particularly RH9), there are socket problems between the JVM and the kernel. To fix this, you need to set the `LD_ASSUME_KERNEL` environment variable before starting FishEye.

Add the following code to the script that starts FishEye:

```
export LD_ASSUME_KERNEL=2.4.1
```



## Perforce branches are being indexed as part of the head branch

FishEye only supports Perforce branches that have a branch specification. You can create a branch specification for your branches with the Perforce Command-line Client using the following command:

```
p4 branch [Your branch name]
```

See [Branching Codelines and Merging Changes](#) in the Perforce Knowledge Base for more information.


## Problems with very long comments and MySQL migration

### Issue Symptoms

There is a known issue with FishEye 2.0.x and very long comments when migrating your database to MySQL Enterprise Server. In some circumstances, this might result in truncation of very long comments, causing data loss.

Depending on your configuration, you may see an error message like this while migrating to MySQL Enterprise Server, 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 Enterprise Server with default settings.

For more information, see the [JIRA issue](#).

### Workaround

If your data contains very long comments or review descriptions (longer than 21,845 multibyte unicode characters), consider avoiding use of MySQL Enterprise Server until this issue is resolved fully. Alternatively, use PostgreSQL or the default (built-in) HSQLDB database.

The FishEye developers are actively working on a solution to this problem and it will be addressed in an upcoming FishEye point release.

### Requesting Support

If you require assistance in resolving the problem, please [raise a support request](#) under the FishEye project.

## URLs with encoded slashes don't work, especially in Author constraints

If the author names in your repository contain slashes or back-slashes, and you are using Apache, you may run into a problem where these characters are incorrectly escaped. By default Apache explicitly forbids encoded slashes or back-slashes in URLs. You can change this behavior with the following httpd.conf directive:

```
AllowEncodedSlashes On
```

This directive is documented [here](#).

## FishEye Development Hub



This page is deprecated. Please see the new [Developer Documentation Space](#).

## Developing Fisheye Plugins



The content on this page is deprecated. Please see the [separate documentation space](#) for developer reference material about FishEye and Crucible.

## Plugin Module Types



The content on this page is deprecated. Please see the [separate documentation space](#) for developer reference material about FishEye and Crucible.

## FishEye Web Items



The content on this page is deprecated. Please see the [separate documentation space](#) for developer reference material about FishEye and Crucible.

## Servlet Plugin Module



The content on this page is deprecated. Please see the [separate documentation space](#) for developer reference material about FishEye and Crucible.

## Fisheye Page Decorators



The content on this page is deprecated. Please see the [separate documentation space](#) for developer reference material about FishEye and Crucible.

## Spring Component Plugin Module



The content on this page is deprecated. Please see the [separate documentation space](#) for developer reference material about FishEye and Crucible.

## Documentation for FishEye Development



The content on this page is deprecated. Please see the [separate documentation space](#) for developer reference material about FishEye and Crucible.

## FishEye's URL Structure



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## Fisheye Plugins



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## Crucible Command Line Interface



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## Crucible CLI - Remote API support matrix



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## Developer Report Plugin



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## FishEye Client for Eclipse



The content on this page is deprecated. Please see the [separate documentation space](#) for developer reference material about FishEye and Crucible.

## FishEye REST API



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## Data Types



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## Repositories Service



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## Revision Data Service



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## Search Service



The content on this page is deprecated. Please see the [separate documentation space](#) for developer reference material about FishEye and Crucible.

## The FishEye Remote API



The content on this page is deprecated. Please see the [separate documentation space](#) for developer reference material about FishEye and Crucible.

## Writing SOAP Clients for Fisheye or Crucible RPC Plugins



The content on this page is deprecated. Please see the [separate documentation space](#) for developer reference material about FishEye and Crucible.

## FishEye Resources

### Resources for Evaluators

- [Free Trial](#)
- [Feature Tour](#)

### Resources for Administrators

- [FishEye Knowledge Base](#)
- [FishEye FAQ](#)
- [Tips of the Trade](#)
- [Guide to Installing an Atlassian Integrated Suite](#)
- [The big list of Atlassian gadgets](#)

### Downloadable Documentation

- [FishEye documentation in PDF, HTML or XML formats](#)

### Plugins

- [FishEye Developer Documentation](#)
- [Atlassian Plugin Exchange](#)

### Support

- [Atlassian Support](#)
- [Support Policies](#)

### Forums

- [FishEye General Forum](#) | [subscribe](#)
- [FishEye Developers Forum](#) | [subscribe](#)

### Feature Requests

- [Issue Tracker and Feature Requests for FishEye](#)

## Glossary

Code repository or SCM ([Source Code Management](#)) software terminology can be confusing. This page provides definitions for some of the most commonly used terms.

*On this page:*

- [Branch](#)
- [Changeset](#)
- [Commit](#)
- [Committer](#)
- [CSID](#)

- [Head](#)
- [Repository](#)
- [SCM](#)
- [Slurp](#)
- [Tag](#)
- [Trunk](#)

FishEye and its documentation uses the following terms:

## Branch

A branch is an independent stream of work in a repository. For example, you might copy a set of files in the repository into a new branch, where you can carry on with a separate stream of work without cluttering up the main production area on trunk.

Different SCMs handle branching and merging in different ways. The common aspects allow users to create a branch in which to make changes which do not affect the files in other branches and the trunk development stream. These changes can then be merged into the trunk in a controlled fashion when a development unit of work is complete. Branches can also be used for experimental changes so that these do not affect the main development.

## Changeset

A changeset is a collection of changes to files in a repository which are committed to the repository in a single operation with a single commit message. Not all SCMs support atomic commit operations. For these SCMs, FishEye will determine the file revisions which make up the changeset using a reliable heuristic (set of rules).

Different SCMs use different terms for the concept of a changeset, such as "changelist", which is generally interchangeable with changeset.

## Commit

A commit is a single entry of content (usually source code) into a repository. It can be a single file or comprised of multiple file versions.

## Committer

A committer is a user of an SCM repository who is adding content to the repository (where it will be permanently archived). Typically, a committer is a programmer who is committing source code but SCMs can also store other files such as documents, images and schematics.

## CSID

Standing for 'Changeset ID', this is a code that is used to reference every set of files that is committed to a repository. For example, if you commit three files to a repository, they are collectively a changeset, and will share the one CSID. CSIDs normally appear as a number, for example '31905'. In FishEye, CSIDs appear as links that you can click to visit the '**Changeset View**', which shows a list of the files in the left column, and the file contents or diffs in the right hand pane. In some circumstances you can hover your mouse over the CSID to see the '**Changeset Hover**' dialog, which displays the commit message, author, timestamp and files in the changeset.

## Head

The "head" revision is the latest change to be made to a file in either a trunk or a branch part of a repository.

## Repository

A repository is a area managed by an SCM where you store a set of related files, typically from a project or set of projects. The SCM is responsible for version controlling the files in the repository and maintaining their change history. A repository will contain the trunk and all branches for the files of the various projects. A single SCM instance can typically house multiple repositories.

## SCM

SCM ([Source Code Management](#)) software is a category of computer software that archives complex sets of files, for example, all the source code comprised in a large multi-part software project. SCM systems keep copies of every version of every file, allowing you to completely restore and build any version of the software from any point in time.

Committers typically add new versions of code to the SCM once it is tested and approved by [peer code review](#) or quality assurance.

Each instance of an SCM can host multiple repositories.

## Slurp

"Slurping" is a term that is synonymous with "repository scanning". FishEye must do intensive scans of the contents of repositories (SCM systems) in order to provide its lightning-fast web-based browsing of their contents. This can be referred to as a *slurp*, or *slurping*.

## Tag

In SCM terminology, a "tag" is a label that is added to a number of files, to capture their collective state at a particular moment in time. A typical tag would be a specific software version number, that could be referenced to see all the files that belong to a specific version build of a software project.

## Trunk

In SCM terminology, the "trunk" is the central part of the version control "tree". For example, you might copy a set of files in the repository into a new branch, where you can do new experimental work without cluttering up the main production area on trunk.

# Contributing to the FishEye Documentation

Would you like to share your FishEye hints, tips and techniques with us and with other FishEye 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](#)
  - [Following 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 FishEye 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 FishEye 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

Our documentation wiki contains developer-focused documentation (such as API guides, plugin and gadget development guides and guides to other frameworks) as well as product documentation (user's guides, administrator's guides and installation guides). The wiki permissions are different for each type of documentation.

- If you want to update the [FishEye developer documentation](#), the [Developer Network](#) or other developer-focused wiki spaces, just sign up for a wiki username then log in and make the change.
- If you want to update the [FishEye product documentation](#), we ask you to sign the Atlassian Contributor License Agreement (ACLA) before we grant you wiki permissions to update the documentation space. Please read the [ACLA](#) to see the terms of the agreement and the documentation it covers. Then sign and submit the agreement as described on the form attached to that page.

## Following 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, will make the necessary changes.

- **Wiki permissions.** We use wiki permissions to determine who can edit the various types of documentation spaces.
  - Developer documentation (API guides, plugin development and gadget development): Anyone can edit these spaces, provided they have signed up for a wiki username and logged in to the wiki.
  - Product documentation (user's guides, administrator's guides, installation guides): We ask people to sign the [Atlassian Contributor License Agreement](#) (CLA) 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.
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## RELATED TOPICS

[Tips of the Trade](#)  
[Author Guidelines](#)  
[Atlassian Contributor License Agreement](#)

## Tips of the Trade

Below are some links to external blog posts and articles containing technical tips and instructions on setting up and using FishEye. This page presents an opportunity for customers and community authors to share information and experiences.

The references here are specific to FishEye and are technical 'how to' guides written by bloggers who use FishEye. For more general information on source repository insight, best practices and business cases, please refer to the [Atlassian website](#).



### Please be aware that these are external blogs and articles.

Most of the links point to external sites, and some of the information is relevant to a specific release of FishEye. 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 FishEye. [Unless explicitly stated](#), Atlassian does not offer support for third-party extensions or plugins. The information in the linked blog posts has not been tested or reviewed by Atlassian. We recommend that you test all solutions on a **test** server before trying them on your production site.

### On this page:

- [Using a reverse proxy to Fisheye from Tomcat 5+ - Blog](#)
- [Diary of a FishEye Hacker - Part 1 and Part 2](#)

### Technical Tips

#### *Using a reverse proxy to Fisheye from Tomcat 5+ – Blog*

- By: Dieter Wimberger, on his [Coalevo](#) blog.
- About: How to use a reverse proxy to Fisheye from Tomcat 5.
- Date and FishEye version: 21 Jan 2008; FishEye 1.4.2.
- Related documentation: [Integrating with Other Web Servers](#).

### Plugin Development

#### *Diary of a FishEye Hacker – Part 1 and Part 2*

- By: Dan Hardiker, on the [Adaptavist](#) blog
- About: How to write a FishEye reporting plugin that provides a framework for alternative views on the repository data
- Date and FishEye version: 6 May 2008; FishEye 1.5
- Related documentation: [FishEye Development Hub](#)



### Have you written a technical tip for FishEye?

Add a comment to this page, linking to your blog post or article. We will include it if the content fits the requirements of this page.

**Feedback?**

Your first port of call should be the author of the linked blog post. If you want to let us know how useful (or otherwise) a linked post is, please add a comment to this page.

## Other Sources of Information

[FishEye documentation](#)  
[Atlassian website](#)  
[Atlassian forums](#)  
[Atlassian Blog](#)  
[FishEye plugins](#)

## FishEye Documentation in Other Languages

Below are some links to FishEye 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 FishEye. 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 FishEye. The information in the linked guides has not been tested or reviewed by Atlassian.

**On this page:**

- [No guides yet](#)

None
<p><b>No guides yet</b></p> <p>We do not yet have any guides to link here. Be the first to suggest one!</p>

## Adding Your Own Guide to this Page

Have you written a guide for FishEye 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

[FishEye documentation](#)  
[Atlassian website](#)  
[Atlassian blog](#)  
[FishEye plugins](#)

# TreeNavigation



# TreeNavigationVersions

▼ Click for all versions

[FishEye 2.5 Documentation](#)  
[FishEye 2.4 Documentation](#)  
[FishEye 2.3 Documentation](#)  
[FishEye 2.2 Documentation](#)  
[FishEye 2.1 Documentation](#)  
[FishEye 2.0 Documentation](#)  
[FishEye 1.6 Documentation](#)  
[FishEye 1.5 Documentation](#)  
[FishEye 1.4 Documentation](#)  
[FishEye 1.3 Documentation](#)  
[FishEye 1.2 and Older Documentation](#)