



# Alcea Tracking Solutions (ATS) Admin Manual

Version 10.01

Alcea Technologies Inc.  
[www.alceatech.com](http://www.alceatech.com)

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## 1.0 Introducing ATS

ATS is an innovative and easy-to-use issue management solution, providing you with the tools to track issues, coordinate projects, and effortlessly manage the change process within your organization.

This publication provides you with an overview of ATS's capabilities and also provides you with detailed steps for conducting typical tasks performed only by ATS administrators.

A second publication — the ATS User Manual — is also available. The user manual outlines global functions that can be performed by all ATS users, including administrators. For more information, see the ATS User Manual, available at

<http://www.alceatech.com/support/documentation.html>

## 1.1 What's New?

Our latest free product upgrades are available at,

<http://www.alceatech.com/support/upgrades.html>

Announcements about new and upcoming events are available at,

<http://www.alceatech.com/news.html>

## 1.2 Additional Documentation

Additional documentation, including the user manual, Web Help, product FAQs and troubleshooting tips, is available at,

<http://www.alceatech.com/support/documentation.html>.

## 1.3 Accessing Customer Support

You can contact us at the following numbers and email address:

Telephone: 1 . 613 . 563 . 9595

Toll free: 1 . 877 . 321 . 4463

Fax: 1 . 613 . 563 . 9494

Helpdesk: <http://www.alceatech.com/support/helpdesk.html>

Email: [support@fittrackingsolutions.com](mailto:support@fittrackingsolutions.com)

## 1.4 About Alcea Technologies Inc.

Established by IT professionals for IT professionals, Alcea Technologies Inc. has been providing premium information technology solutions since 1997.

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Our flagship product, ATS, is a market leader in tracking resolutions software. Quick to install, easy to use, and simple to customize, ATS includes a support package that is unprecedented in the industry.

ATS solutions offer power and simplicity to identify, track, and resolve corporate and customer issues throughout any organization.

Alcea's corporate mandate is to continue offering world class IT products and services to our global customers, which include public and private organizations, government departments, and fortune 500 companies.

For more information about Alcea Technologies Inc., visit <http://www.alceatech.com>

For more information about ATS, visit <http://www.alceatech.com>

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## 2.0 ATS Trials

There are three easy ways to access a trial version of ATS at the following location:

<http://www.alceatech.com/demos/index.html>

### 1. Trial Hosted Systems

Alcea offers a hosted 30 day trial which runs on our server and can be created and used immediately.

These trial systems are fully functional and all data will be kept intact for you once you decide that you want to become a permanent customer. Alternatively, the data can also be archived and sent to you if you decide to host the server on your own machine at a later date.

### 2. Trial Download

The ATS software can be downloaded and installed on your own server within 5 minutes. This trial system is actually the complete product and you do not need to uninstall or reconfigure anything once you decide to purchase. Before you download ATS, please review our system requirements summary below. Downloading instructions are also available below.

### 3. Online Help System

Alcea also allows you to login to our on-line help system and take a look at how we are using the system ourselves to better serve our customers.

Detailed purchasing and installation information is available at:

<http://www.alceatech.com/pricing/index.html>

## 2.1 System Requirements

The system requirements for ATS are:

> Minimum requirements:

- 10M HD space / 1000 issues
- (assuming JRE is already installed)
- 1G RAM

> Recommended:

- 20G HD space plus 100M HD space per 1000 issues
- 2G RAM

> Platforms:



- 
- Windows (95, 98, ME, 2000, XP, Vista, 2007)
  - Mac OSX
  - Linux - (requires Java Virtual Machine 1.6 or greater)
  - Solaris - (requires Java Virtual Machine 1.6 or greater)
  - Other - (will run on any other platform that also has Java Virtual Machine 1.18 or greater)

NOTE Administrators must account for space needed for any attachments.

## 2.2 Downloading ATS

In less than 5 minutes, you can have a full system running on your own server.

To setup ATS

- 1 Navigate to [http://www.alceatech.com/Web\\_Installers/install.html](http://www.alceatech.com/Web_Installers/install.html)
- 2 Choose from the list of available installers
- 3 On Windows simply follow the prompts to download the Fit.msi install file to your computer desktop.

On a Unix system, you must save the Fit.tar on your system and extract the contents using the command "tar -xvf Fit.tar". This will present you with a Fit script that you can run.

- 4 Once the Fit.msi file is on your computer desktop, double-click the file icon and follow the prompts to download ATS.

For Unix, run Fit script as "./Fit" or run Fit manually using the contents in the script.

- 5 Once the software application is installed, you are prompted to perform initial configurations as outlined in the following section.

NOTES The ATS trial version is the complete application with some minor restrictions as outlined at <http://www.alceatech.com/demos/index.html>

We provide you with a key to override these restrictions once you purchase the product. For more information, visit <http://www.alceatech.com/pricing/index.html>

A 30 day trial key is also available when necessary.

### Downloading Alternatives/Lack of GUI

If you are using a system without GUI implementation, you may experience problems with our install file. If so, we have alternative methods available upon request.

## 2.3 Performing Initial ATS Configurations

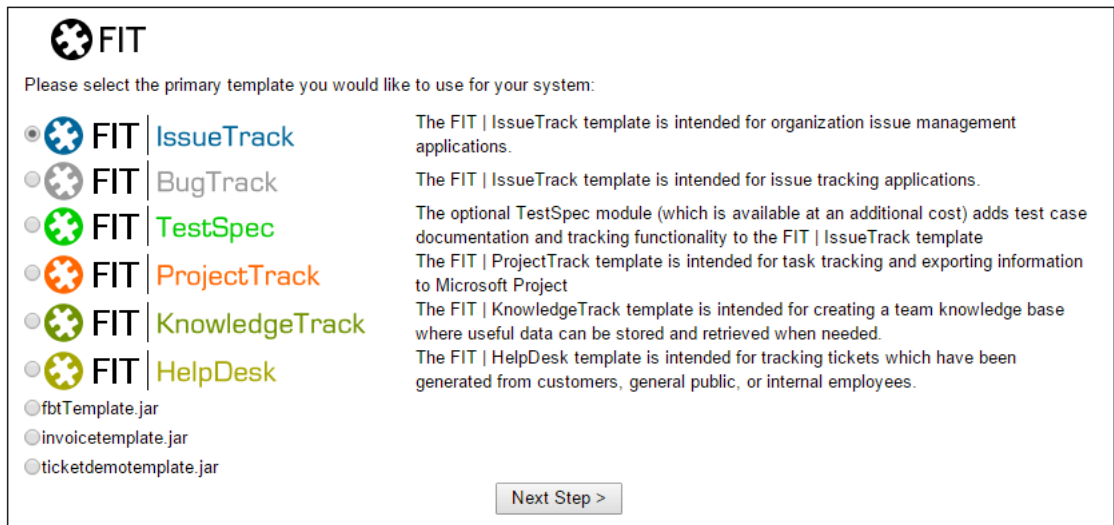
The configuration of ATS is done by running it immediately after it has been installed. A ATS instance is created on the machine where it is started and this instance acts as the main server for you ATS system. If possible, the software also tries to start a web browser and automatically connect to itself, using the URL it has just established as the server address. This is the URL address that all clients will then use, unless aliased or reconfigured.

Start ATS in the location that you installed it. You can investigate the except.log if there are any problems running the server.

If a browser window does not automatically open when you start ATS, simply point your web browser to the appropriate URL. If you are running your web browser on the same machine that you are running ATS, you can probably use `http://127.0.0.1:10000` or `http://localhost:10000`. If you are running a web browser on a different machine, you will want to use the name of the machine where ATS is installed and port 10000 is the default. If you are not sure what you should be using, check with your network administrator. The URL should also now be listed in the except.log, located in the installation directory.

### Configuration Steps:

Step 1 - Choose a template to use. All templates are fully customizable, so if you're not sure which template to choose, pick any one for now and you can change it later. Click the "Next Step" button when you are satisfied with your choices.



The screenshot shows a configuration window titled "FIT" with a gear icon. Below the title, it says "Please select the primary template you would like to use for your system:". There are six radio button options, each with a colored gear icon and a text label: "FIT IssueTrack" (blue), "FIT BugTrack" (grey), "FIT TestSpec" (green), "FIT ProjectTrack" (orange), "FIT KnowledgeTrack" (light green), and "FIT HelpDesk" (yellow-green). To the right of these options are descriptive paragraphs for each template. At the bottom left, there are three radio button options for template files: "fbtTemplate.jar", "invoicetemplate.jar", and "ticketdemotemplate.jar". At the bottom right, there is a "Next Step >" button.

Template Name	Description
<input checked="" type="radio"/> FIT IssueTrack	The FIT   IssueTrack template is intended for organization issue management applications.
<input type="radio"/> FIT BugTrack	The FIT   IssueTrack template is intended for issue tracking applications.
<input type="radio"/> FIT TestSpec	The optional TestSpec module (which is available at an additional cost) adds test case documentation and tracking functionality to the FIT   IssueTrack template
<input type="radio"/> FIT ProjectTrack	The FIT   ProjectTrack template is intended for task tracking and exporting information to Microsoft Project
<input type="radio"/> FIT KnowledgeTrack	The FIT   KnowledgeTrack template is intended for creating a team knowledge base where useful data can be stored and retrieved when needed.
<input type="radio"/> FIT HelpDesk	The FIT   HelpDesk template is intended for tracking tickets which have been generated from customers, general public, or internal employees.

Figure 1: Installing Track Definition

Step 2 - Create an admin user for ATS so that you can login. Enter a username and password that will be used to login to the system for the first time. Once you are logged in, you can then enter all the users you wish. If you forget this password, you can delete the server.cfg file and start this process again. When you are satisfied with the user setup, click the 'Complete Installation' button.

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The screenshot shows a web-based configuration interface for FIT. At the top left is the FIT logo, which consists of a gear icon with a cross inside, followed by the text 'FIT'. Below the logo, the word 'Instructions:' is followed by two bullet points: 'Create your administrator user to log in to your system.' and 'You can add additional users once you system is up and running.' Below the instructions, there are four columns: 'User Type \*', 'User Name \*', 'Password \*', and 'Re-enter Password \*'. The 'User Type \*' column contains the text 'Administrator'. Below these columns are three input fields. A 'Complete Installation ->' button is centered below the input fields.

Figure 2: Configuration Screen For Adding First Accounts

At this point you can review your choices and you are ready to start using ATS. Upon clicking the 'Complete Installation' button, you can login with one of the usernames you created and start using ATS!

NOTE If you would like to re-run the installation process, delete the file called "server.cfg" created in the ATS directory. When this file exists, ATS runs in tracking mode - but when it is not found, ATS runs in installation mode.

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## 3.0 Logging In to ATS

You can log in to ATS after you successfully setup a trial hosted system, or download and configure the software application. For more information about setting up a trial system, see the previous chapter on ATS trials.

To log in to ATS

- 1 On the Login page, type your login name in the Login box.
- 2 Type your password in the Password box.

If you want ATS to remember your password each time you log in, select the Remember this password check box.

## 3.1 Configurable Options

The following login options can be enabled from the security tab of Server Configuration menu.

**Email New Password** - Allows you to let users email themselves password changes. The new password is sent to the email associated with their user profile.

**Create New Login** - Allows new users to create logins in specific groups.

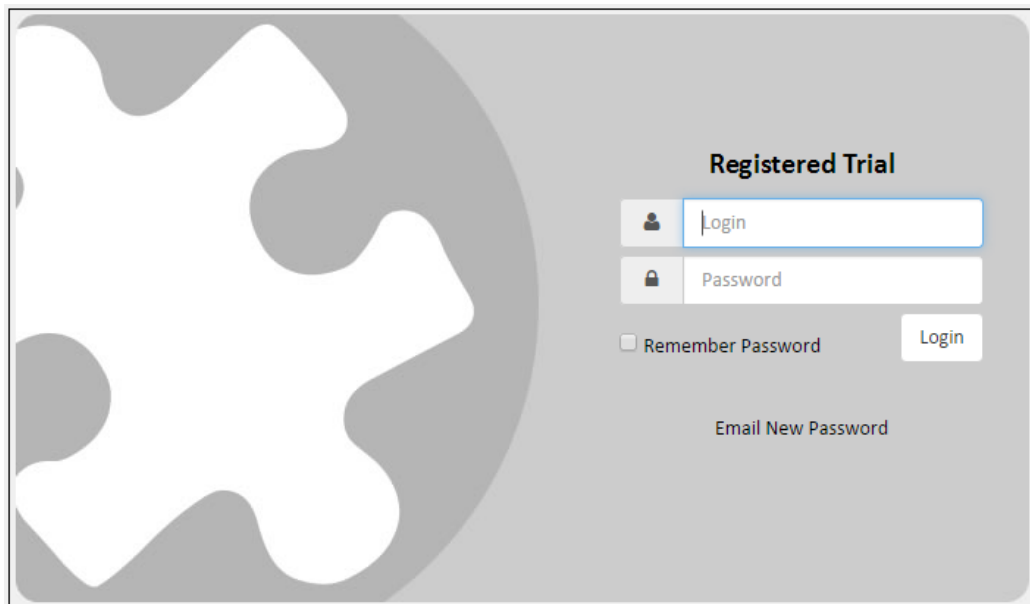


Figure 3: Login Screen

## 3.2 Login Page Configuration

The following are string variables which can be configured to customize the login page.

Logo - you can change this to a URL for a logo that is already on the web or copy a logo to your main Fit server directory and access the file name directly. The Admin -> File Upload menu allows you to copy a file to the public ATS directory where it can be accessed directly.

Logo Alt - the title displayed over the logo

Login Background - the background behind the login frame.

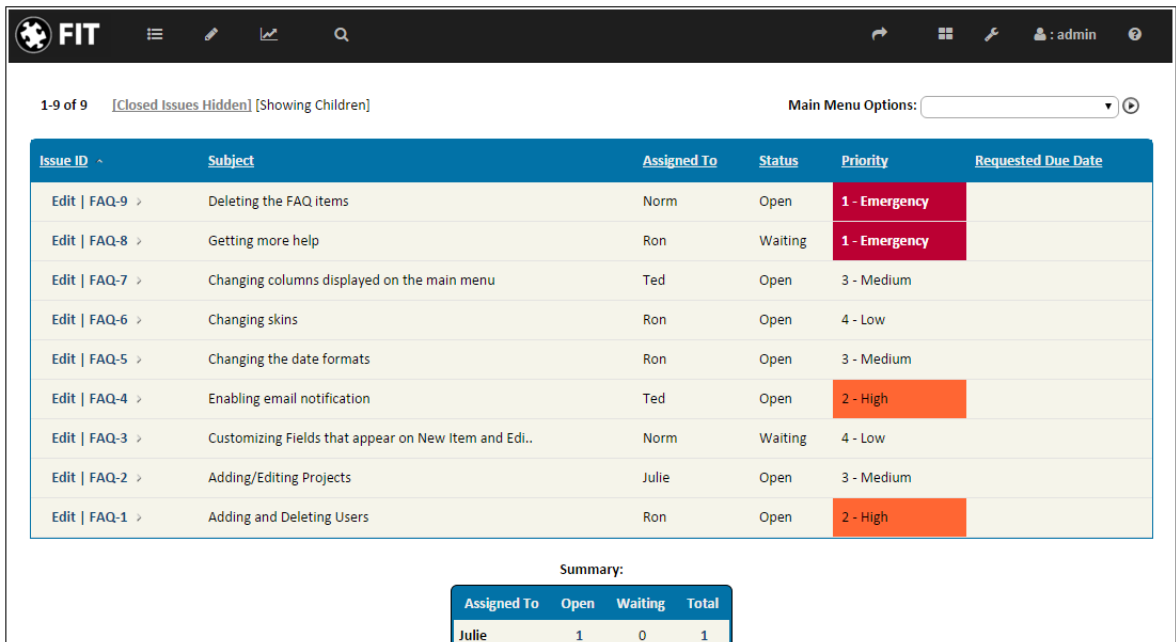
Login Back drop - the image behind the actual login prompt.

Login Track Text - text to appear on top left of login screen. A second logo is normally located there (controlled by rLogo)

Login Notes At Top - allows you to define notes at the top of the login page

Login Notes - allows you to define notes on the bottom of the login page

Once you login to the ATS system, the main menu is displayed with a list of FAQ items as your first list of issues. For a complete explanation of the menu screens, please see the section on "Viewing and Customizing" in the ATS User Manual. These items can be removed for a completely empty system by using the "Remove All Data" option in Admin->Data Import.



The screenshot shows the FIT main menu interface. At the top, there is a navigation bar with the FIT logo, a hamburger menu, a search icon, and a user profile icon labeled 'admin'. Below the navigation bar, there is a status bar with '1-9 of 9' items, a link for '[Closed Issues Hidden]', and a link for '[Showing Children]'. To the right of the status bar is a 'Main Menu Options:' dropdown menu. The main content area features a table with the following columns: Issue ID, Subject, Assigned To, Status, Priority, and Requested Due Date. The table contains nine rows of FAQ items. Below the table is a 'Summary:' section with a table showing counts for 'Assigned To', 'Open', 'Waiting', and 'Total' for the user 'Julie'.

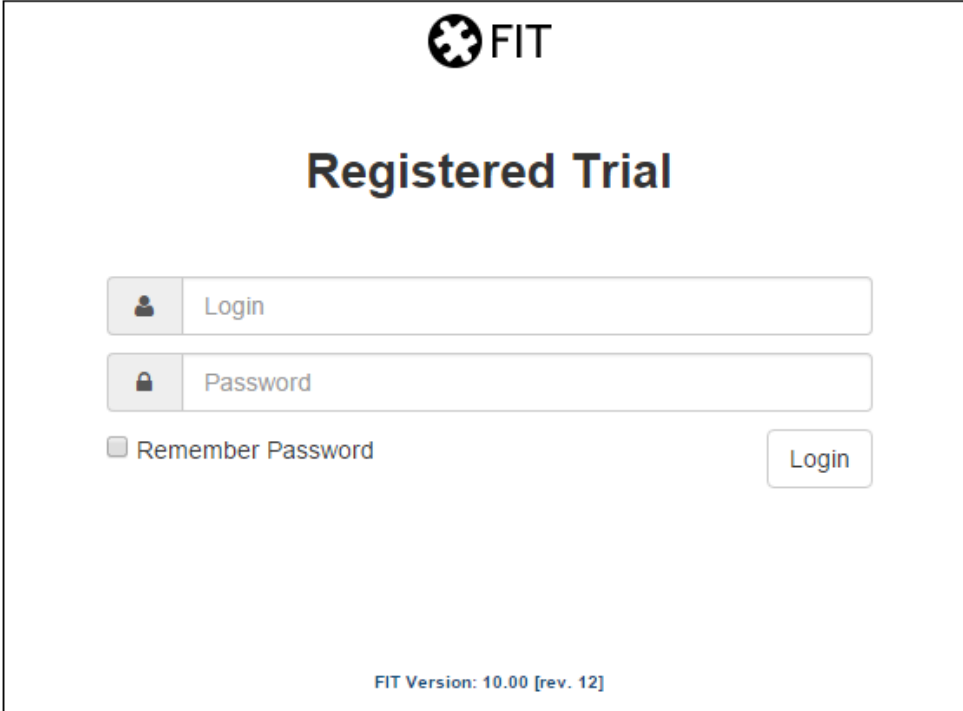
Issue ID	Subject	Assigned To	Status	Priority	Requested Due Date
Edit   FAQ-9 >	Deleting the FAQ items	Norm	Open	1 - Emergency	
Edit   FAQ-8 >	Getting more help	Ron	Waiting	1 - Emergency	
Edit   FAQ-7 >	Changing columns displayed on the main menu	Ted	Open	3 - Medium	
Edit   FAQ-6 >	Changing skins	Ron	Open	4 - Low	
Edit   FAQ-5 >	Changing the date formats	Ron	Open	3 - Medium	
Edit   FAQ-4 >	Enabling email notification	Ted	Open	2 - High	
Edit   FAQ-3 >	Customizing Fields that appear on New Item and Edi..	Norm	Waiting	4 - Low	
Edit   FAQ-2 >	Adding/Editing Projects	Julie	Open	3 - Medium	
Edit   FAQ-1 >	Adding and Deleting Users	Ron	Open	2 - High	

Summary:			
Assigned To	Open	Waiting	Total
Julie	1	0	1

Figure 4: Main Menu Screen

## Alternate Login Page



The screenshot shows a login page for FIT. At the top center is the FIT logo, which consists of a gear icon with a puzzle piece inside, followed by the text "FIT". Below the logo is the heading "Registered Trial" in a large, bold, black font. Underneath the heading are two input fields: the first is labeled "Login" and has a user icon on the left; the second is labeled "Password" and has a lock icon on the left. Below the password field is a checkbox labeled "Remember Password". To the right of the checkbox is a "Login" button. At the bottom center of the page, there is a small text string: "FIT Version: 10.00 [rev. 12]".

Figure 5: Original Login Page

The original login screen alternative format is available by restarting ATS with the following line configured in the `server.cfg`: `com.other.HttpHandler.default=com.other.default`

The following configuration strings are available:

Login Notes At Top - allows you to define notes at the top of the login page

Login Notes - allows you to define notes on the bottom of the login page

Product Version - allows you to remove the product version string from the login page by setting to a one space string.

## 4.0 Sorting and Previewing Data

ATS is equipped with sorting capabilities that let you specify how drop down options are displayed in the list boxes within the system, for default fields, users and groups. Figure 2 shows an example of the Project configuration menu.

There are two sorting options you can apply: alphabetical and load order. When alphabetical sorting is used, the drop down box options display from A-Z. When load order sorting is used, the drop down box options display in the same order in which the values appear in the sorted list. (arrows allow you to change the order of the sorted list.)

You can sort on a variety of administration pages, including the pages that let you add and edit users, projects, and priority levels.

Please note that once you specify the sorting option, you can use the preview option to preview how the drop down box listing will appear on the New Issue page.

The procedures for sorting and previewing data are outlined below. The figure below shows an example of sorting users by load order.

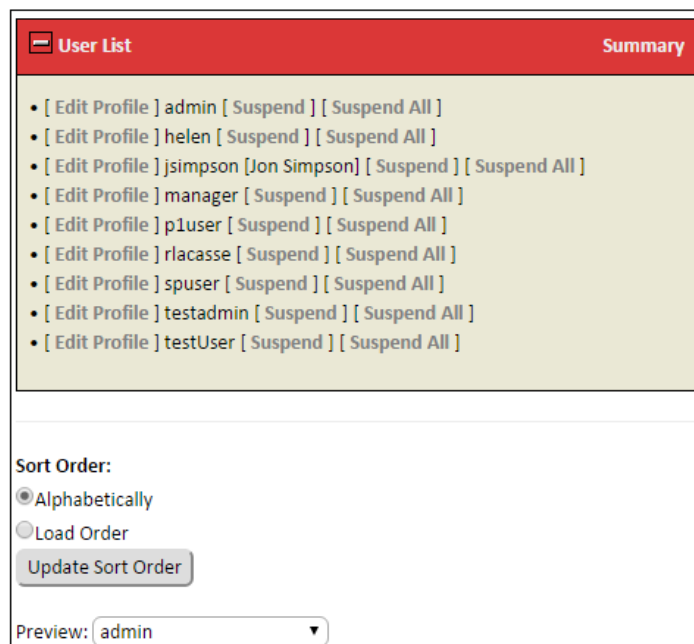
To sort data

- 1 On the relevant page, select one of the following boxes:

Alphabetically — Sorts the data in alphabetical order.

Load Order — Sorts the data as configured by the arrow controls. Note that you can drag items up and down the list if it is displayed in Load Order.

- 2 Click Update Sort Order.



The screenshot shows a web interface titled "User List" with a "Summary" link in the top right. The main content area displays a list of users, each with a bullet point, an "Edit Profile" link, and "Suspend" and "Suspend All" links. The users listed are: admin, helen, jsimpson (Jon Simpson), manager, p1user, rlcasse, spuser, testadmin, and testUser. Below the list, there is a "Sort Order:" section with two radio buttons: "Alphabetically" (which is selected) and "Load Order". Below the radio buttons is a button labeled "Update Sort Order". At the bottom, there is a "Preview:" label followed by a dropdown menu currently showing "admin".

Figure 6: Preview Drop Down Box

## 5.0 General Options

General options are common administration commands that you can access from the general option links listed on the Admin Menu page. The next figure shows you the location of the general option links on the Admin Menu page and the following table defines the general option links from that menu.

Once you are familiar with general options, you can access the relevant general option links and perform related tasks as outlined in this section.

To access general options

- On the Main Menu page, click the Admin Menu link.
- The Admin Menu page appears from which you can access the general option links.

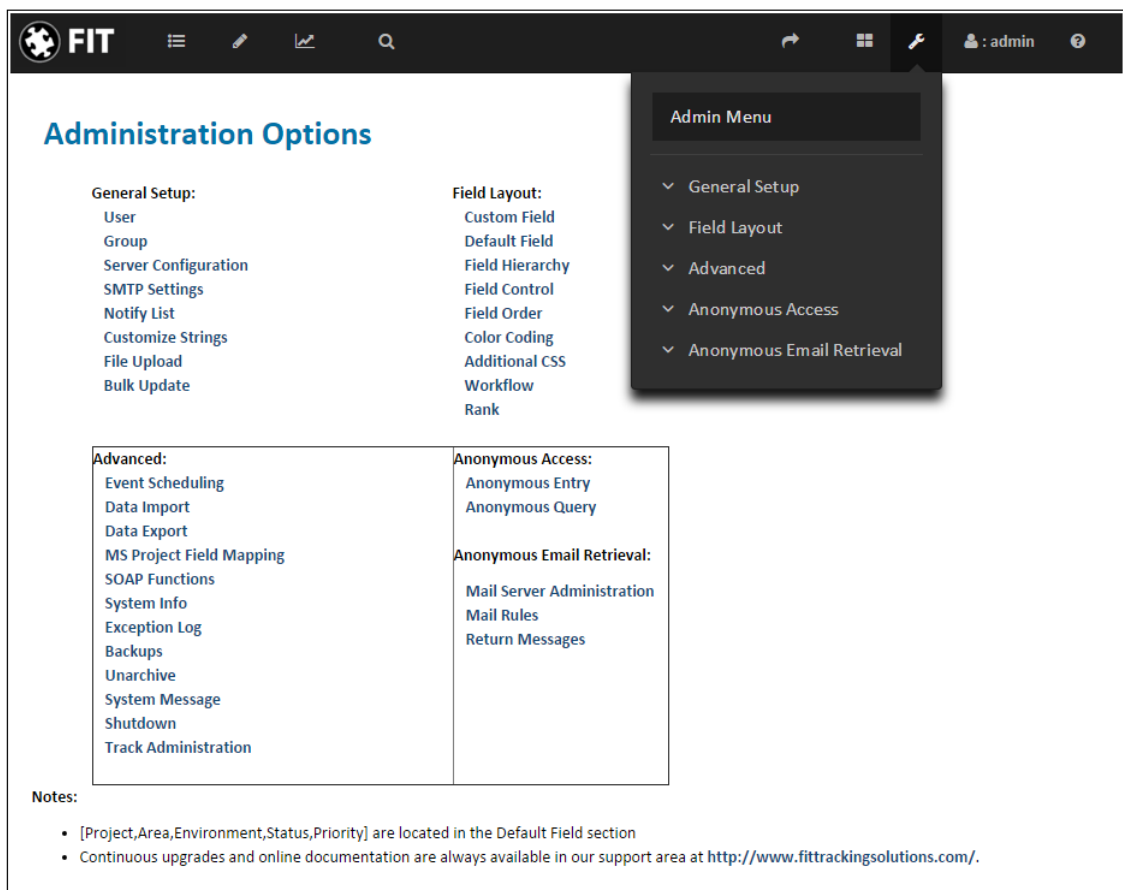


Figure 7: Specifying General Options

Table 1: General Option Links and Corresponding Commands

General Option Link	Corresponding Command
User	Change user settings, such as adding users to the user list



General Option Link	Corresponding Command
Group	Change group settings, such as adding groups to the groups list.
Server Configuration	Change the settings of the server on which ATS is running.
SMTP Settings	Add an SMTP server or change its configuration. The SMTP server is used for email notification.
Notify List	Configure the notification drop-down list, which lets you add or remove users who are notified by email when new issues enter the system or when issue updates occur.
Customize Strings	Change global text strings that appear on ATS pages.
File Upload	allows you to copy a file to the public ATS directory where it can be accessed directly.
Track Administration	Controls for addition and configuration of additional tracks for the system.

## 5.1 User Administration Screen

When you initially install ATS, you specify the individuals who can access and use the software application. These individuals are called users or logins.

The User Admin section is divided into two columns. The right side of this menu lists the current users and the controls for editing them. The left half of the menu allows you to change the properties of users.

Figure 8: User Administration Page

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## User Administration Tabs

Create User Tab - allows you to create a new user. The options listed here are listed in the section below.

File Import Tab - allows you to save time by importing multiple users from a CSV file.

Track Import Tab - allows you to grant access to the active track for users in other tracks on your system.

In addition, you can edit each user's profile by clicking the Edit Profile link beside the corresponding user in the User list. For more detailed information about editing a user's profile, see the ATS User Manual available at: <http://www.alceatech.com/support/documentation.html>.

## User List Controls

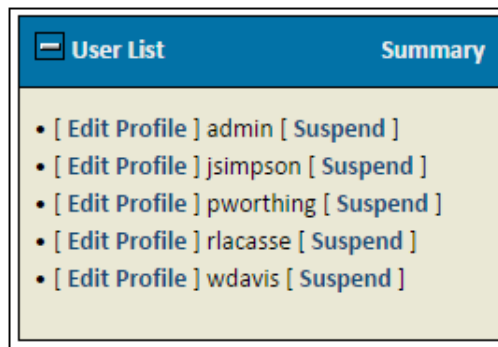


Figure 9: User List Controls

The User List menu provides links to edit or delete any existing users. In addition, there is a control at the bottom of this list which allows you to order these users (load order) or list them in alphabetical order. This is the option which controls how the user list drop-downs (ie: Assigned To) are ordered within the ATS system.

If you are using load order, you will see arrow icons on the left which allow you to move the users up or down the list. You can also drag users up and down the list.

## Adding a User to ATS

When you add a user, you specify the following properties into the create user tab for each:

- User Id — The identification used to log in to ATS. For example, “jsmith” or “msullivan.”
- Password — The password used by the user to log in to ATS. For example, the same password the user enters to log on to their computer.
- User Tag — Further identification for the user. For example, “Jacob Smith” or “Mary Sullivan.”

- 
- Email Address — The email address to which issue notification is sent. This is generally the user's email address.
  - User Type — The user's access level; normal, read-only, or administrator.
    - Normal — Can view, assign, and close issues.
    - Administrator — Can access the full system, which includes the ability to view, assign, and close issues as well as the ability to configure ATS.
    - Read-only — Can only view issues.
  - Selected Groups — Choose the groups you want the user added to (CTRL to multi select)
  - Profile to Copy — Choose a user to model the new user's profile after. All preferences and column settings will be copied.
  - Selected Tracks — Select the Tracks you wish to grant the user access to, if using the Track feature.
- TIP You can use the arrow keys in the user list to organize the users (for example, click an arrow key to move a user at the top of the list to the bottom of the list.)
- You must create at least one administrator so that you can configure and maintain the system. If you inadvertently delete an administrator, navigate to Program Files/ATS folder and delete the server.cfg file. This lets you restart ATS and enter an administrator. You won't lose any data or special settings.

## Editing the User Profile

You can change each user's profile by clicking the Edit Profile link beside each user name. Clicking this link calls up a series of user profile attributes that you can change, including the user password, user info (for example, email and user tag), the user's group information, user preferences, and the columns that display when an issue is logged. The user profile functionality is fully explained in the ATS User Manual, which is available at

<http://www.alceatech.com/support/documentation.html>

This document will simply outline the extra admin options which are available on the "User Info" tab, when an administrator changes the profile for a user.

To access the admin profile options

- 1 On the Admin Menu page, click the 'User' link, under General Setup.
- 2 On the User Administration page, click the Edit Profile link, in the User List, that corresponds to the user's profile to which you want to edit.

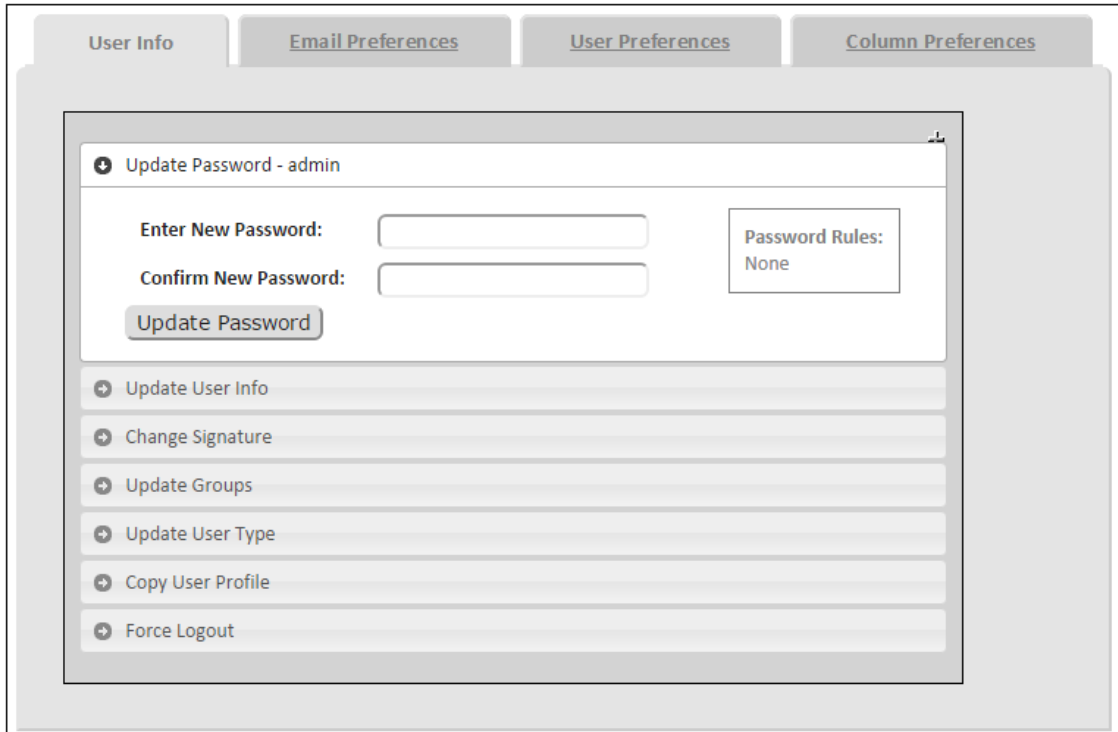


Figure 10: Additional Admin Profile Settings

## User Info Tab

The **Update Password** option (under User Info tab) is to set the password for the selected user profile.

The **Update User Info** section allows you to add a 'User Tag' that displays as a suffix (by default) that is displayed along with the user's name.

The **Change Signature** section allows you to add a signature that accompanies updated comments.

The **Update Groups** option (under User Info tab) allows you to change the groups that a user belongs to without having to go to the Groups admin menu and importing to a group.

The **Update User Type** option lets you change the access type for a user.

The **Copy User Profile** option lets you copy the profile settings of this user to a set of other users. This is useful if you want to set up a default user and use their settings for all future users by copying it's profile to all new users.

The **Force Logout** option allows you to remotely logout with the selected user.

## 5.2 Group Settings

This section outlines how to add groups and also provides general information for working with complex groups.

### Groups

You can use groups to separate users that work on different tasks or projects. When users are grouped, you can restrict the information that group members can access and view. You can also add users to multiple groups to address more complex scenarios where specific permissions apply to various individuals.

Using groups also lets you create a system within your organization in which some of the information in ATS is client-specific. For example, you can create two specific customer groups that cannot see each other or their restricted issues. In addition, you can hide or control access to specific fields from different user groups.

### Group Administration

Group Administration

> Admin Menu > Group ( Clear  
Related Menus: User | Project

Group Details Manage Users Profile Settings Advanced Settings

Group Name:

Projects Visible:

- Project1
- Project2
- Project3
- FAQ
- New Project

Groups Visible:

- Alcea
- DemoGroup
- Manager Group
- Master List
- Project 1
- Project 2 Group
- Project3 Group
- Sharmila's Group

Add To Selected Tracks:

- Ticket \*
- Defects
- HelpDesk
- KB
- Project

Save Group

Group List Summary

- [ Edit Group ] Alcea [ Delete ] [ Delete All ]
- [ Edit Group ] DemoGroup [ Delete ] [ Delete All ]
- [ Edit Group ] Manager Group [ Delete ] [ Delete All ]
- [ Edit Group ] Master List [ Delete ] [ Delete All ]
- [ Edit Group ] Project 1 [ Delete ] [ Delete All ]
- [ Edit Group ] Project 2 Group [ Delete ] [ Delete All ]
- [ Edit Group ] Project3 Group [ Delete ] [ Delete All ]
- [ Edit Group ] Sharmila's Group [ Delete ] [ Delete A
- [ Edit Group ] Special Permission [ Delete ] [ Delete

Sort Order:

Alphabetically

Load Order

Update Sort Order

Preview: Alcea

Figure 11: Group Administration Menu

---

The group list is listed on the right side of the group administration page. The order of the page is controlled by the Sort Order setting on the bottom right. You can have the groups listed alphabetically, or in a specified order. If you use the load order setting, you can drag items or use the movement icons, which are present if you are using that setting.

The group list has a link for editing and deleting a group. There are also quick links (not shown) at the top of the page to User and Project administration menus, which are closely related features.

When a group is edited, it's attributes are listed on the left hand side of the page. A group definition is defined by the attributes defined on the three tabs on this page.

## Group Details Tab

The most basic concepts of a group involve the visibility of issues and the visibility of other users in the system. ATS defines two basic group properties:

Group Name: Name given to the group definition you are configuring.

Projects Visible: Defines the projects for which issues are visible to members of a group. All issues have a project field (possibly renamed) which is used to group issues of a common criteria. This project field is the most basic form of security for groups. Any issues which belong to a visible project are visible to members of this group.

NOTE All projects are visible by default, unless one or more is selected in this set.

NOTE The Group Security Filter (under advanced settings tab) can override projects visible. If this is set, project visibility is set by the filter being used.

Groups Visible: defines the users who can be seen by members of this group. If another group is not listed in this selection, then it's members will not show up in the user lists for members of this group. Ultimately, this means that members of this group can not assign issues to other individuals, unless they belong to a group in this list.

Add To Selected Tracks: This option lets you coordinate changes between multiple tracks, so that groups do not have to be modified multiple times.

## Manage Users Tab

Group management involves adding and removing users from a group. There are three operations which are used for configuration (Add/Move/Remove).

Add Users To Group: This is a list of all users who are not currently a member of this group. Selected users are simply added to this group, in addition to remaining in any other groups they are already a member of.

NOTE When you add a user to a group, they are not removed from their other groups. The

initial group for a user is the Master List. When you first add a user to a group, you will probably want to use the move utility so they are removed from the Master List which has full access.

Move Users To Group: This is a list of all users who are not currently a member of this group. Selected users are moved to this group only, removing them from any other groups that they are currently a member of.

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Remove Users From Group: This is a list of all the users who are currently members of this group. All selections will be removed from this group. If they are not members of any other group, they will be placed in the Master List, which has access to everything. Therefore, it is best to first create another group with the desired permissions, and move them to that group, rather than removing them here.

NOTE Group assignment can also be done from the User Profile (Info Tab), by any administrator.

## Profile Settings

In some cases, an administrator wants to control the preferences of a set of users. The options on this tab allow you to restrict a user from modifying specific sets of profile preferences.

## Advanced Settings Tab

The advanced settings are kept separate from the basic group operations of the other tabs. These attributes allow more complex security and permissions and are generally not needed for simple setups.

Other Groups That This Group is visible To: This option can help save time when creating groups. The selection box is a list of all the other groups in the system. The selected groups here are groups, whose members are able to see the users in this group. It is a faster way of changing the “groups visible” attribute of these selected groups, to include the group we are currently editing (so we don’t then have to go through them one by one).

Hide Users From Others In Group: This option will simply allow you to set permissions for a group, without allowing them to see one another in the system. Consequentially, members of a group cannot see, or assign issues to other members of the same group.

Show Group in Notify List: This option controls whether the group is available to choose in the group selection of the Notify List (defaults to visible).

## Group Special Permissions

Group Security Filter: You may use a filter to control access to issues, rather than the normal “Projects Visible” setting. If you select a filter here, it will override the normal “Projects Visible” selection. You can add projects to the filter if you want to add back the basic behavior.

A Group Security Filter allows you to define complex group access by defining any filter you wish. The filter must however be created before it can be used for the group. If the filter is not desired as a drop-down filter from the menu bar, there is an advanced option for it to only be used for administration purposes.

NOTE The Group Security Filter definition is saved inside the group definition that uses it. This means that any changes to the filter will not affect any groups using it, unless the group is re-saved.

Use Projects Visible: This option will have the system use the Projects Visible setting from the Group Details tab, even though a Group Security Filter is set to define this group. This allows

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a filter to be used across many different groups rather than needing to define a specific filter for each group where the project is part of the filter definition.

Group has Read-only Permissions: This option will define all users of this group as read-only type users. Keep in mind that users in multiple groups may not be restricted if another group grants them access.

Allow Create New Login from Login Page: This option will make the group visible as an option for new logins being created by new users on the login page.

#### Additional Permissions

These options permit the administrator to specify some special access permissions. These permissions are useful when issues flow between groups by allowing access if a user created the issue or has had it assigned to them.

Common scenarios are issues which move from one project to another, as groups reassign issues between groups.

Assigned to the User: This option allows a user to see any issues to which he is currently assigned ownership, even if the user's group does not permit access.

Entered by the User : This option allows a user to see any issues which they have added to the system, even if the user's group does not permit access.

Containing the User in the Notify List: This option allows a user to see any issues to which they have been added in the Notify List, even if the user's group does not permit access.

Assigned to a Member of the User's Group: This option allows a user to see any issues to which he or another member of his group is currently assigned ownership, even if the user's group does not permit access.

Entered by a Member of the User's Group: This option allows a user to see any issues to which he or another member of his group has entered, even if the user's group does not permit access.

NOTE The project of an issue can NOT change to/from a project set up with unique ids, since

the id may already be used by another project. This might be important when you are determining how to set up groups for projects. If you avoid the unique ids, this is not a problem.

#### Menu Controls

Cannot create New Issues: This option removes access to the "New Issue" menu for all members of this group, so that they are not allowed to create new issues.

Can access Bulk Update: The Bulk Update feature is only accessible to administrators of the system unless they are in a group with this option enabled.

Disable Dashboard: The dashboard menu item is not visible for users in this group.



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## Field Control

Copy Field Control Settings From Group: Allows the administrator to copy field control settings from another group which has already been defined. If left blank, the Field Control Settings will remain unchanged.

## Group Examples

The simplest case is to have all users in the Master List (default group), where every user can see every other user and all issues in the system. However, you can make things as complicated as you like and we have put together a few common examples to illustrate how groups can be set up for a few other scenarios.

### Example 1: Project Based Security

The easiest way to secure a system is to use the project field to segregate data in your system. Each group can be granted access to a defined set of projects, so that they only see the issues for those projects.

NOTE The default setup for a group is to see ALL projects. If no projects are selected, then the group sees all projects.

For example, a Manager oversees three groups, where all communication is done between the manager and the customers **OR** the manager and his team of developers.

1. Customer enters issue to the track [**Customer** - Manager]
2. Manager reviews issue and assigns it to the developer group [**Manager** - Customers/Developers]
3. Developers notify the manager that the issue is resolved. [**Developer** - Manager]
4. Manager notifies customer that the issue is resolved.

Visibility of other users in the system is controlled by the “Groups Visible” selection for a group. Members of a group will only see users in groups that are made visible to them using this setting. If a user is in multiple groups, then a set is made from all of the users groups.

The other major concern in any system is what issues a user has access to. You can configure ATS so that each subgroup has access to a specific project (or set of projects).

Additional customers or internal groups can be set up in exactly the same way. Additionally, you can use field controls to secure specific fields for particular groups or workflow to add more rules to your system.

### Example 2: Group Security Filter

Sometimes using “Projects Visible” is not enough for a system and you want to control access for a group by a special criteria. In this case, save a “System Filter” to define the criteria you are looking at for this group. This is done from the Save Options section of the Filters menu, with the “For administration purposes” option set, so it does not appear in the general filters drop-down.

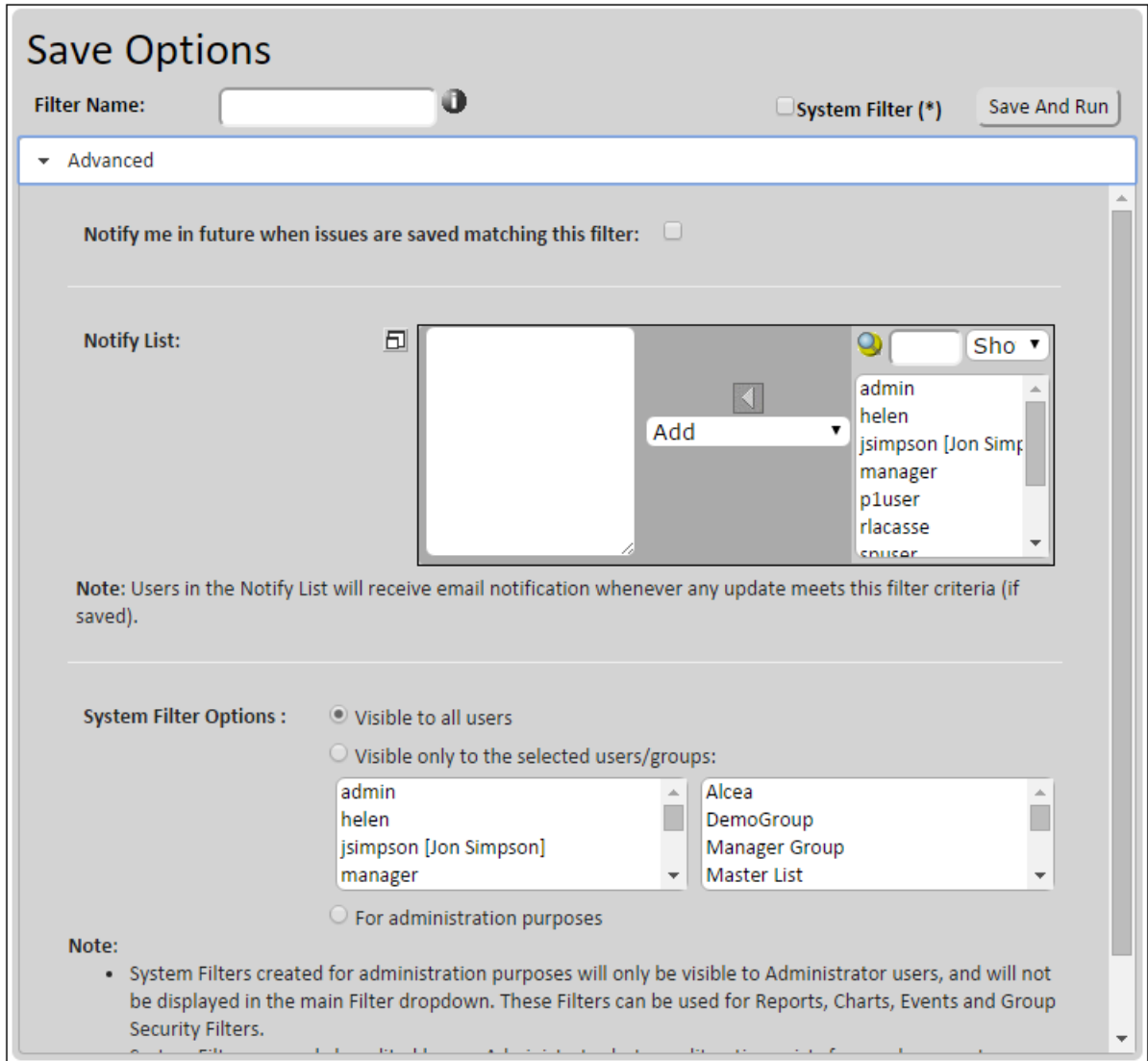


Figure 12: Advanced System Filter Options Section

Once this filter is saved, it can then be selected as the Group Security Filter in the Advanced Group Settings tab to control exactly what members of that group can see.

NOTE Setting a Security Filter overrides the Projects Visible settings

NOTE The “Use Projects Visible” attribute under the Group Security Filter setting allows the filter to control the projects that are visible for the group, rather than using the normal Projects Visible selection on the Group Details tab.

### Example 3: Issues between Groups

When issues are moving between groups you may want a group in one project to see issues from another project. In this case you can use additional permissions to allow users to assign issues to members of other groups.

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In this case we have 5 additional advanced settings that are useful for groups.

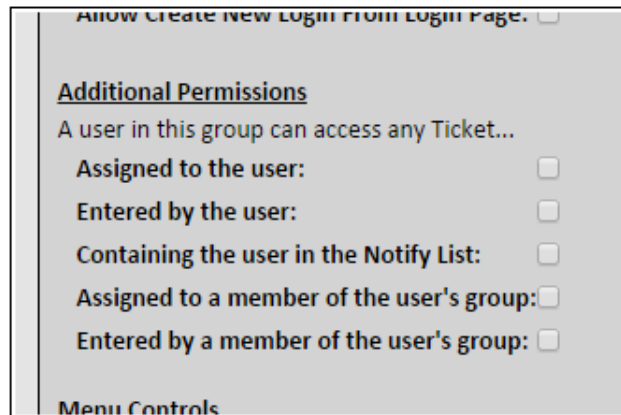


Figure 13: Additional Group Permissions

These allow you to grant access to issues that are assigned to you, entered by you, contain you in the Notify List, assigned to anyone in your group, or entered by anyone in your group, no matter what the restrictions are on your group.

#### Example 4: Private Issues

You can also use groups to introduce private issues to your system, for personal use by your users. Simply create a new private project that no other groups can see. (unique Id setting works best). Create a new group called Private and create a security filter with the following definition:

```
EnteredBy=[CURRENT_USER], Project=[Private]
```

which states that members can see anything entered by them in the Private Project. Then add the appropriate users to this group.

## 5.3 Server Configuration

The Server Configuration controls all of the major server settings for ATS.

This admin menu is divided into several tabs, corresponding to related server options for the system.

### Server Configuration Options

Server Options	Lets you...
ATS Server Name	Use the server name instead of the default IP address. This is used for links to the system, such as links to issues in email notification summaries.
ATSPort	Specify the port that ATS is running on. If this is changed, you must stop and restart ATS for the new port to take effect. The port default is 10000.
ATS IP Address	Choose a desired IP address on systems with multiple IP addresses.
Disable Auto Browser Launch	Stop the server from automatically opening a browser and connecting to the server. This is particularly useful on console systems, which do not have a graphics context that allows this. The launch feature is enabled for new systems being set up, quickly showing new admins how to connect to the server. Once you are happy with your system, you can certainly disable this.
General Options	
Skin To Use	Customize your skin to one of the listed layout types. This will change the headers and footers. Additional designs can be discussed with us as custom changes. Make sure to match the skin to an appropriate stylesheet. For additional information, see Appendix D.
Style sheet To Use	Customize the default style sheet used for displaying system pages. If you create a new custom Cascading Style Sheet (CSS) file and place it in the ATS server directory, it is also displayed in this list (may require a restart).
Server Time Zone	Changes the Server Time Zone (can be overwritten by users).
Disable URLs And Issue IDs As Links	No longer change URLs and "Issue X" strings to links when reading issue details.
Disable Confirm Delete	Stop the system from prompting you every time you delete an item from the admin menu.
Disable Parent/Child Controls	Allow parents to be closed, even if a child is still Open.
Use Alternate Login Page	Set to a different URL if you are logging in from an external page so that users go to the same location when they logout.
Disable Dashboard	Hide the Dashboard Link to disable this feature.
Default Track	Set the default track when a user logs in (for systems with multiple tracks).
Enable Language Links	This option will add a "Change Language" option to the list of Session Options, next to the Welcome label, offering the option to change the default language for the user. The language options are also added to the login screen. Note: users will need to logout after any changes to this option.
Main Menu Options	

Server Options	Lets you...
Enable Jump Back/Forward 10 Links	Add links to jump backwards/forwards 10 issues in addition to the jump ahead/back links that are there by default.
Disable View All Issues	Remove the feature that allows you to list all issues on one page (which can impact other users)
Set View All Issues Grouping Size	This option helps minimize the impact of the "View All Issues" option. Smaller grouping sizes will have a smaller impact on the system.
Disable Normal Edit Profile	Remove the Edit Profile link so that users cannot modify their user information and passwords.
Enable Read Only Edit Profile	Allow Read Only users to modify their user information and passwords.
Disable Main Menu Live Update	Do not show updated details on Main Menu using Ajax
Disable Who What Live Update	Do not list viewing/editing icons on Main Menu indicating other users working on issues.
Only Show Edit Links to Issues	Only show edit links on the Main Menu rather than the View links beside the edit links.
Disable Row Highlighting	Disable highlighting of rows on main menu as mouse moves over them.
Quick View	Quick View function options when user clicks on row in the main menu.
Disable Child Highlighting	Indent child relationships rather than highlighting them in yellow. This functionality is dependent on the "Show child task list for each parent" option in a user's profile.
Disable RTF HTML Editor	Disable the RTF Editor when modifying text areas.
Notification	
Default History Type for Notifications	This is the history type that will be used for notifications where it can not be obtained from a user profile (ie: anonymous).
Disable Automatic Notifications to Assigned To User	By default notifications are no longer sent to the Assignee of a Task, regardless of whether or not the user is on the Notify List. This option disables this feature.
Enable Attachments In Notifications	Attach attachments to outgoing notification emails.
Enable Attachment Prompts for Email Basic Response	Show attachment prompts for Email Basic Response feature on View menu.
Enable Attachment Prompts for Email Task Details	Adds a attachment prompts to Email Details feature on View menu. Attachments are emailed along with the details but not added to the issue.
Suppress Notifications by Default	Default the suppress notification checkbox to "Checked".
Disable Suppress Bulk Notifications By Default	This will disable automatic checking of the Suppress Notification check box on the Bulk Update screen.
Enable Custom Notification Template	Allows you to customize email notifications. This will replace the default email notification template with the contents of the "sCustom Notification Template" configurable string.
Issue Detail	
Allow Editing of New Issue Status	Allow users to edit the initial status of a bug from the New Issue menu
Show Reject Count	Show number of times issue has been changed to Rejected status.

Server Options	Lets you...
Restrict Status	Restrict status applies only to users with administrator privileges and the user who opened a given issue. This means that no other users can move the issue to any of these status states. The states are controlled with the "sRestrict Status Value" string. This string consists of a comma-delimited list of states that are to be restricted. (more complex rules can be setup using workflow)
Add Creator To Notify List	Automatically add the creator of every issue to the Notify List for that issue. These users are then sent email notification of all changes to a given issue (unless they make the changes themselves).
Disable Duplicate Submit Catch	Disable feature that stops a second identical issue from being submitted.
Disable Single Entry Catch	Disable feature that stops an issue entry page from being used more than once to enter details.
Disable User Tags	Do not append the User Tag (from a user's profile) to the user id in all drop-downs in the system. This tag is nice for systems where user ids are not immediately obvious.
Show User Tags First	This option displays the User Tag as a prefix instead of a suffix. This option is used in conjunction with the preceding one.
Use Normal PM Fields	The default behavior for Actual Hours, Estimated Hours, and Percent Complete is to show a read only value for parent Tasks, consisting of the totals for the children. This option overrides the default behavior and allows the parent to control the values.
Disable all RTF functionality	RTF editor will be removed from all text areas and they will default to standard text.
Enable Parent Pick Utility	Use parent picker utility for parent selections (default field), instead of just showing parent id
Attachment Prompts	Default number of attachment prompts that are available on edit screens.
Disable Background Attachment Feature	Disables the background loading of attachments in favour of the older model (which appends to final submit).
Leading Zeros	This controls the leading zeros that are displayed for the issue id. It offers a way to enforce that IDs are a consistent size.
Issue Cache Size	This is the amount of memory used to cache a single issue in the system. Caching uses memory but increases system performance by making commonly used field data immediately accessible.
Security	
Enable security bypass when assigning Issues	Permit assignments to users who can not see a given project, allowing users to see any issues assigned to them, regardless of project.
Enable security bypass when Entering Issues	Permit the creation of new issues to users who can not see a given project, allowing users to create issues for other users, regardless of project.
Enable Security Bypass when user is in Notify List	Allow users to see an issue if they are in the Notify List, regardless of the project that issue belongs to.

Server Options	Lets you...
Strict Password Options	Disable password Cookies- Remove the option from the Login page for remembering passwords. Enforce 8 Characters Enforce 1 Upper Case Enforce 1 Lower Case Enforce 1 Number Enforce 1 Non-alphanumeric
Enable Case Insensitive Login	Logins do not differentiate between upper and lower case for logins.
Enable Session Cookies	Use cookies to store the session information, rather than embedding it in the URLs for the system. This will allow users to cut and paste URLs from within the system, without the danger of passing the session information. Session information can otherwise be used to login as another user.
Disable Password Cookies	Do not allow your users to store their passwords as a cookie in their browser
Enforce Password Reset after Change	Force a user to change their password the next time they login.
Force Reset of All Passwords	add a flag to each user profile, forcing them to change their user profile the next time they use the system.
Unsuccessful login attempts before locking out user	Number of times a userid can try to login without giving the correct password.
Session Timeout (in Hours)	The inactivity time that will cause a session id to expire.
Email New Password	Enables the feature form login pages, so that users can reset their own passwords. (new passwords are sent to associated email address).
Enable Create User from Login Page option	Enables an option on login page, allowing new users to create a new login.

An option may indicate that it spans all tracks for a system. In this case you do not need to set the option for each individual track, as the setting is copied to all other tracks automatically.

The screenshot shows the 'Server Configuration' interface with the 'General' tab selected. The configuration options are as follows:

- FIT | TicketTrack Server Name:** An empty text input field. Below it, a note states: "If blank defaults to: 169.53.172.125".
- FIT | TicketTrack Port:** A text input field containing the value "33033". Below it, a note states: "You must manually stop and restart the server if the port is changed."
- FIT | TicketTrack IP Address:** An empty text input field. Below it, a note states: "Leave this blank unless you want to restrict FIT | TicketTrack to bind to a specific IP address on servers with more than one IP address".
- Disable Auto Browser Launch :** A checkbox that is currently unchecked. Below it, a note states: "Do not try to launch a browser automatically on start of application. (useful on console servers where exception may be given)".

At the bottom center of the configuration area, there is a button labeled "Change Settings".

Figure 14: Changing the Server Configuration

To change the server configuration

- 1 On the **Admin Menu** page, click the **Server Configuration** link.
- 2 Options are divided into tabs according to functionality. Note that some options span the entire system, where tracks are used. The remainder are specific to the active track.
- 3 Make changes as desired on any of the tabs.
- 4 Click **Change Settings**.



## 5.4 SMTP Settings

The SMTP Settings page controls the SMTP connection used for email notification. You may only require the SMTP Server and From fields, depending on the system to which you are connecting.

The following table and figure illustrate the available SMTP setting options.

MS Exchange servers may require the modification of some options before ATS can connect to them. If you are having difficulty, email [fit@aleatech.com](mailto:fit@aleatech.com) and we will help you isolate the problem.

Table 2: SMTP Setting Options

Option	Description
SMTP Server	The SMTP server name.
From (Address)	This represents the email address that a notification is addressed from. This may need to match the user name for the email account on the SMTP server.
From (Name)	This represents the name associated with the above From address. It will appear in brackets next to the address.
Username	The username used if authentication is necessary with the SMTP server.
Password	The password used if authentication is necessary with the SMTP server.
Message Id	Allows the message Id to be specified in notifications.
User Profile for Plain Email Addresses	You can select a user profile to be used as a template for all notifications to email addresses. This way, you can configure field controls for data going to general emails as you would do with general users.
Secure Email Notification (Hide Details)	This option strips email notifications of the issue details. Just a title with the unique issue Id is sent.
Secure Email Notification (Hide Links)	The option strips email notifications of the quick links to the system from the top of the notification.
Show ATS Links for Email Basic Response, Email Case Details:	This option will add links to the issues at the top of the notifications for the Email Basic Response and Email Case Details features.
Disable Security String	This will remove the security string located in the subject of notification emails from the anonymous retrieval utility. Note that this is necessary if you wish to allow users to reply to emails and automatically update tickets inside ATS.
Disable Basic Security String	There is a separate security string for the basic response feature.
Do Not Send List	List of emails which will never be sent a notification from ATS.

Settings
Test Email Notification

- Entering an SMTP server will enable email functionality for FIT | TicketTrack.
- If the SMTP server field is blank, this functionality will be disabled.
- No email is sent if the Ticket is assigned to the same user that is making the change.

<p>SMTP Server: <input type="text"/></p> <p>From (Address): <input type="text"/></p> <p>From (Name): <input type="text"/></p> <p>Username: <input type="text"/></p> <p>Password: <input type="password"/></p> <p>Message Id: <input type="text"/></p> <p>User Profile for Plain Email Addresses: <input type="text" value="admin"/></p> <p>Secure Email Notification (Hide Details): <input type="checkbox"/></p> <p>Secure Email Notification (Hide FIT Links): <input type="checkbox"/></p> <p>Show FIT Links for Email Basic Response, Email Ticket Details: <input type="checkbox"/></p> <p>Disable Security String: <input type="checkbox"/></p> <p>Disable Basic Response Security String: <input checked="" type="checkbox"/></p> <p>Disable Basic Response Security String: <input type="checkbox"/></p> <p>Importance Value: <input type="text"/></p> <p>Do Not Send List: <input type="text"/></p>	<p>SMTP Port (if not 25): <input type="text"/></p> <p>Use SSL: <input type="checkbox"/></p> <p>Use TLS: <input type="checkbox"/></p> <p>(if authentication necessary)</p> <p>(if authentication necessary)</p> <p>Set 'Message-ID' header value to a custom string. Any "*" characters will be replaced with random integers.</p> <p>Note: The settings of the profile selected will be used when sending notifications to plain email addresses</p> <p>Note: The security string is added to the subject of notifications for Anonymous Email Retrieval so that reply comments will be added to the proper Tickets.</p> <p>Note: separate security string for the basic response feature.</p> <p>Have email importance sent in notification header where priority &lt;= value (sets Importance header for Outlook).</p> <p>Additionally, you can set sMailImportanceSubjectPrefix string in base context.</p> <p>Note: Email addresses entered into this list will never receive notifications from FIT.</p>
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Admin | Change Settings | All Tickets

Figure 15: SMTP Setting Options

To change the SMTP settings

- 1 On the Admin Menu page, click the SMTP Settings link under General Setup.
- 2 On the SMTP Settings page, specify the appropriate SMTP settings.
- 3 Click Change Settings.

## 5.5 Testing the Notification

The notification rules state that a notification is sent to the Assigned To user in the following conditions:

- 1 The email address for the Assigned To user does not match the email address for the user who is making the modification (Last Modified By), to stop unnecessary flooding of emails.
- 2 When an email address exists in the profile for the Assigned To user.

Therefore, you must be careful when testing the notification procedure if you are making simple tests to yourself. Pay attention to the **“Notified/Skipped”** comment at the top of the results page, after a change is made.

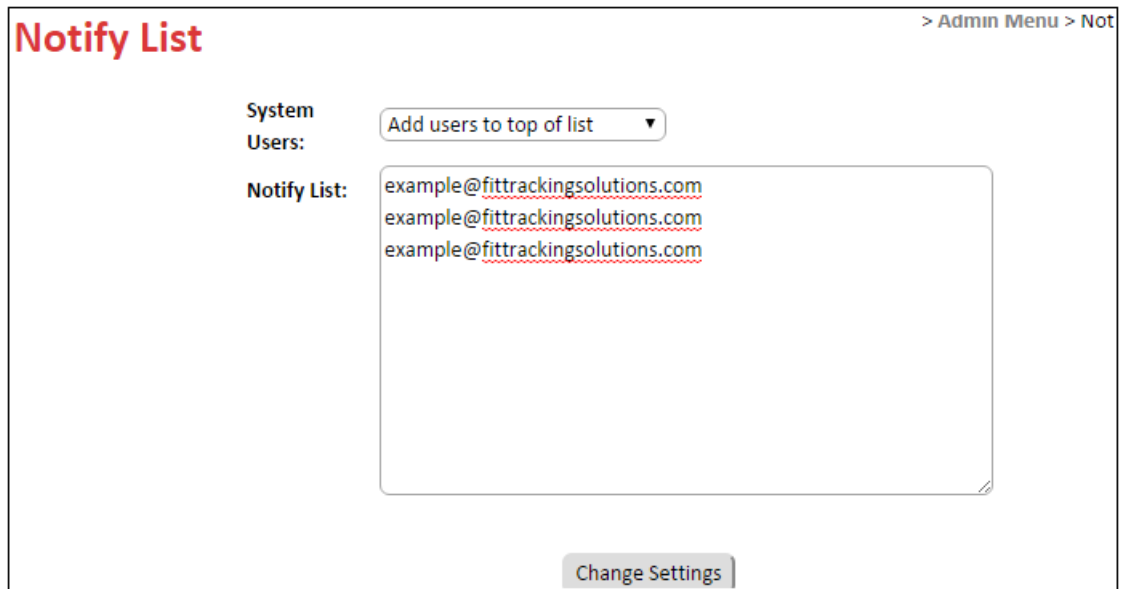
---

The SMTP Settings menu also provides a “**Test Notification**” link on the top right of the page. This can be used to quickly test the current settings. Please make sure to check the Admin->Exception Log regularly to look for any notification errors. This menu shows any exceptions which have occurred since the last restart of the product.

## 5.6 Changing the Notify List

The Notify List page lets you configure the selection list that can be used by users to quickly add entries to the notification list for an issue. Commas, semi-colons, or new lines can be used to separate the values within this list.

The following figure shows the Notify List page. The following procedure outlines how to change the Notify List.



The screenshot shows the 'Notify List' configuration page. It features a breadcrumb trail at the top right: '> Admin Menu > Not'. The page is titled 'Notify List' in red. Below the title, there are three main sections: 'System' with a dropdown menu set to 'Add users to top of list'; 'Users:' with a dropdown menu; and 'Notify List:' with a text input field containing three lines of 'example@fittrackingsolutions.com'. At the bottom center, there is a 'Change Settings' button.

Figure 16: Notify List Page

To change the notify list

- 1 On the **Admin Menu** page, click the **Notify List** link under General Setup.
- 2 On the **Notify List** page, select one of the following from the **System Users** drop-down box:
  - Add users to top of list
  - Add users to bottom of list
  - Users not shown in list
- 3 Type the user names in the **Notify List** box.
- 4 Click **Change Settings**.

---

## 5.7 Customizing Strings

You can customize all of the strings within ATS. This is useful for tailoring the product to meet a variety of change management needs.

You can enter HTML values into the strings and you can change the meaning of a particular field if you want to use it for another purpose. For example, if a default string is not relevant to you, you can change the string to something else. When you change the string, all references to this field are automatically changed to correspond to the string's value.

### Languages

ATS has recently incorporated the ability to manage languages. You can now store every string in the system in multiple languages. By default English is set as the default language, with French and Portuguese (Spanish coming soon) languages for users to choose from. In addition, you may create a new language and customize all the strings to meet your needs. If you wish to create a language, it is probably fastest to create the language and then modify the LANG-xxxx.cfg file manually. You can use the lang.cfg file from the bugserver.jar as a template if you like (or make a request for us to send it to you).

### Samples

Because the list of customizable strings is long, we have chosen to highlight some key examples in the next table. The following figure then outlines the Customize Strings page and the following procedure outlines how to customize strings.

Table 3: Sample Customizable Strings

String	Description
sHead	This strings appears at the top of every ATS page, above the logo and menu.
sBody	This strings appears after menu, but before any page content.
sFoot	This strings appears at the bottom of every ATS page. You can use this string to include information or to close any HTML tags opened above.
sURL PREFIX	This strings allows you to forward ATS through a separate Web server, such as IIS or apache
sRestrict Status	This strings controls the actions of some users. This strings contains a list of status states which cannot be set (for an issue) by any user except an admin user or the creator of the issue. All other users will not see these status types as valid options for status in the modify pages.
sHidden Comparison	This string controls the entries that are automatically hidden, when viewing the Main Menu page. The default setting for this field is Closed. However, you can place any list of status types here (separated by commas). If the status of an issue is listed here and the hide value is set, then your list will not contain this issue.

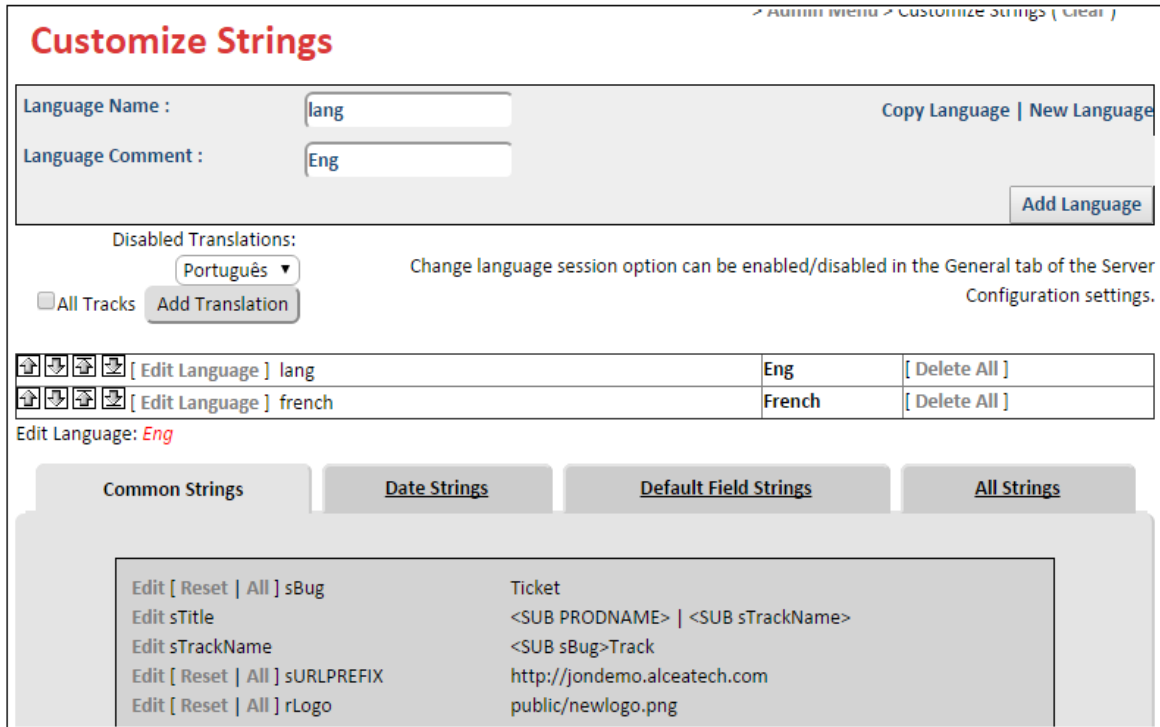


Figure 17: Customizing Strings

To customize strings

- 1 On the Admin Menu page, click the Customize Strings link under General Setup.
- 2 On the Customize Strings page, choose the language that you would like to edit by clicking Edit Language.
- 3 For any language, click the Edit link that corresponds to the string you want to customize.
- 4 Customize the string by typing a name in the list box that displays.

NOTE All corresponding fields will be automatically updated to reflect the new string.

- 5 Click Submit.

## 5.8 File Upload

This feature allows you to upload a file to the system, so that it can be served to users.

This is useful for uploading images (such as a logo) or documents for which you wish to provide links in the ATS interface, by customizing the string variables. The upload feature stores files in the public folder where they can be accessed directly using `http://server[:port]/file`, along with the rest of the product. If you are confused about the URL, you can look at the

properties of any of the other images that are being shown by ATS. This feature is extremely useful if you do not have direct access to the server where ATS is running.

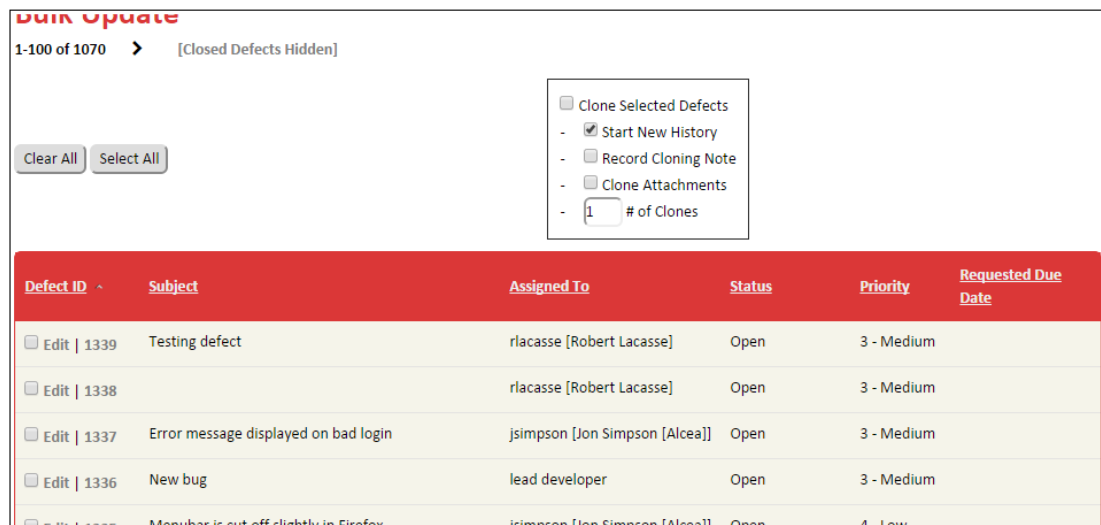
## 5.9 Bulk Update

Bulk updates allow you to simultaneously update the status of multiple issues within the ATS system. For example, if a user leaves your organization, you can simultaneously assign all of his or her issues to another user.

The bulk update functionality is designed to work in conjunction with the filters feature. Filters allow you to group issues with similar characteristics. For example, you can create a filter to view all issues related to user documentation, or you can create a filter based on a specific username to view all issues assigned to a specific ATS user. Then you can perform a bulk update on the filtered information. Filters are fully described in the *ATS User Manual* which is available at <http://www.alceatech.com/support/documentation.html>

To perform a bulk update, navigate to the Bulk Update page (located in the General Setup section of the Admin Menu). You are free to apply a filter to narrow down the issues that you want to update. When this is complete, specify how you want to update all the issues using the options on the Bulk Update page. All issues that are checked/selected will automatically update, changing all fields that have been checked/selected.

The next figure shows you the Bulk Update page and the corresponding procedure outlines how to perform a bulk update.



The screenshot displays the 'Bulk Update' interface. At the top, it shows '1-100 of 1070' and '[Closed Defects Hidden]'. Below this, there are 'Clear All' and 'Select All' buttons. A dialog box is open with the following options:

- Clone Selected Defects
- Start New History
- Record Cloning Note
- Clone Attachments
- # of Clones

The main table below has the following data:

Defect ID	Subject	Assigned To	Status	Priority	Requested Due Date
<input type="checkbox"/> Edit   1339	Testing defect	rlacasse [Robert Lacasse]	Open	3 - Medium	
<input type="checkbox"/> Edit   1338		rlacasse [Robert Lacasse]	Open	3 - Medium	
<input type="checkbox"/> Edit   1337	Error message displayed on bad login	jsimpson [Jon Simpson [Alcea]]	Open	3 - Medium	
<input type="checkbox"/> Edit   1336	New bug	lead developer	Open	3 - Medium	
<input type="checkbox"/> Edit   1335	Member is out off slightly in Firefox	jsimpson [Jon Simpson [Alcea]]	Open	4 - Low	

Figure 18: Performing Bulk Updates

To perform a bulk update

- 1 On the **Main Menu** page under **Actions**, click the **Bulk Update** link.
- 2 On the **Bulk Update** page, choose a filter from the **Filter Bar**.

---

This is only required if you want to narrow down the issues to update.

- 3 Select the listed issues that you want to update.
- 4 In the options box within the **Bulk Update** page, select the attribute check boxes corresponding to the issue attributes you want to change.

For example, if you want to change the issue's status, select the **New Status** check box.

- 5 Specify the change.
- 6 Click **Save**.

**NOTES** Due to the power of this feature, **notification is suppressed by default** for the Bulk Update feature. If you would like the notification to run as normal, simply uncheck the "suppress notification" checkbox, next to the "Save" button.

A cloning feature has been added to this page to allow you to create new bugs where fields default to the values of the issue they are being cloned from. The "**Start New History**" blanks out the history for the new cloned issue, rather than keeping the parent's entries. The "**Record Cloning Note**" simply places a "cloned from" note in the description.

Bulk Update is only granted to administrators unless specifically set for a user in the **Group** settings.



## 6.0 Working With Fields

ATS fields are the labeled inputs within the interface which have been configured to hold a specific type of data. Some common fields include the “Description” field which describes an issue and the “Assigned To” field which allow users to designate an individual to investigate or resolve an issue.

You can adjust ATS’ fields by using the field links listed under the Field Layout section of the Admin Menu page. This next figure shows you some examples of fields. The following figure and table define the field options available for customizing in the Admin Menu page.

Figure 19: Default Field Layout

Once you are familiar with fields and the difference between default fields and custom fields, you can perform field configurations found in the field layout options of the Administration menu.

Table 4: Field Layout Options

Field Layout Link	Corresponding Command
Custom Field	Allows you to define custom fields for specific purposes, in addition to the default fields.

Field Layout Link	Corresponding Command
Default Field	Controls the default fields which are permanently added when a system is created. These fields have specific purposes and are common to most systems. If they are not desired, then they must be hidden, since they can not be removed. The default fields are Project, Area, Environment, Status, Priority, and Description, depending on the template you are using.
Field Hierarchy	Creates a parent-child relationship between different fields so that modifications to the parent field change the options that are available to the child field. This can greatly reduce the options of a child field and avoid problems where the values of two fields do not match.
Field Control	Enforces and/or restricts field information available to ATS users.
Field Order	Create custom field sections and customize field ordering.
Color Code	Defines color code definitions for advanced formatting of the Main Menu page. This allows you to highlight data that is important in specific columns and/or rows.
Additional CSS	Define CSS attributes that override the current CSS definitions declared in the selected CSS file. Allows you to change attributes without saving a new CSS file.
Workflow	Define rules to control field access and advanced behaviors that are dependent on issue states.
Rank	Define the ranking/escalation formula to compute rank field for ordering issues.

**Administration Options**

<p><b>General Setup:</b></p> <ul style="list-style-type: none"> <li>User</li> <li>Group</li> <li>Server Configuration</li> <li>SMTP Settings</li> <li>Notify List</li> <li>Customize Strings</li> <li>File Upload</li> <li>Bulk Update</li> </ul>	<p><b>Field Layout:</b></p> <ul style="list-style-type: none"> <li>Custom Field</li> <li>Default Field</li> <li>Field Hierarchy</li> <li>Field Control</li> <li>Field Order</li> <li>Color Coding</li> <li>Additional CSS</li> <li>Workflow</li> <li>Rank</li> </ul>
<p><b>Advanced:</b></p> <ul style="list-style-type: none"> <li>Event Scheduling</li> <li>Data Import</li> <li>Data Export</li> <li>MS Project Field Mapping</li> <li>SOAP Functions</li> <li>System Info</li> <li>Exception Log</li> <li>Backups</li> <li>Unarchive</li> <li>System Message</li> <li>Shutdown</li> <li>Track Administration</li> </ul>	<p><b>Anonymous Access:</b></p> <ul style="list-style-type: none"> <li>Anonymous Entry</li> <li>Anonymous Query</li> </ul> <p><b>Anonymous Email Retrieval:</b></p> <ul style="list-style-type: none"> <li>Mail Server Administration</li> <li>Mail Rules</li> <li>Return Messages</li> </ul>

Figure 20: Field Layout Options

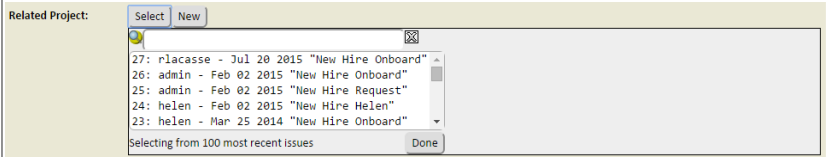
## 6.1 Custom Fields

When you create a custom field, it is added to the Details section of the entry screens between the default fields and the Comment/Description text area. All fields are laid out in pairs (left/right column), using the order configured on the Field Administration page. Some fields can be designated as full line fields that will span two columns.

Illustrated in the next two visuals are the Custom Field options that you can specify to create a custom fields. Additionally, this section outlines procedures for creating and editing custom fields and outlines several diagrams depicting sample custom field configurations.

Table 5: Custom Fields and Corresponding Commands

Custom Field Option	Description
Field Name	Used for the name of the custom field.
Field Type	
String	Used for a single line of text. For example, "Subject" or "Version".
Text Area	Used for a multi-line text area. For example, "Description". <u>Default with RTF editor</u> : enables the Rich Text functionality and associated formatting icons.
Checkbox	Used for a custom checkbox. <u>Show Label after checkbox</u> : simply puts the label after the checkbox input
List	Used where a user needs to choose from a set of options. When creating a list field, enter options for the list into the text area beside the list label. Each line will be an item within the list. <u>List Alphabetically</u> will show list items in alphabetical order, instead of load order. (Load order is the default) <u>Checkbox List</u> : this option formats the list items as a checkbox list (where # rows indicates the number of rows the checkboxes should span). You can see an example of this field type in the Checklist Example of the following Field Attributes section. <u>Multi-Select</u> : allows multiple selections for a list
Number	Used for a custom field where a number is needed. (Examples: "1" or "10.0") <u>Decimal places</u> control the accuracy desired. <u>Cumulative</u> allows you to enter individual entries (displayed in history entries) and shows a cumulative total in the Details section of the issue. <u>Currency</u> will display values with a "\$" where needed. <u>Right Align</u> will change the default alignment for a column in the main menu.
Date	Used for dates. For example, 25/02/2000. You can control the display and input format using the 'sDateFormat' and 'sDateFormatInput' configurable strings. For more information about customizing strings, see the Customize Strings section of the Admin menu.
User List	A drop-down field whose values are the user ids in the system. This matches the "Assigned To" field and is ideal for secondary owners or places where usernames may be needed. <u>Notify Selected User in List</u> will add any selection from this list to the regular notify list when an issue is updated.
Id list	A way of listing multiple ids for other issues in the system. These ids will appear as links to other issues.

Custom Field Option	Description
Advanced Field Types	These types are quite complex and require advanced knowledge of the system Track Association Fields Custom Fields
Track Association Fields	<p>Track Associations can be created using the parent and child field types. These associations are (1-N) relationships allowing you to link a parent issue from one track to N child issues in another track and have them displayed with field data in the associated track. Additional information is available by clicking on the info icon on the top right. The following image illustrates a relationship field selection.</p>  <p>Appendix E has more discussion on this advanced behavior.</p>
Custom	<p>This is used to specify a custom class which was developed for a specific custom feature. If you are interested in a custom feature, you will need to contact our support team to discuss custom development. Appendix C has more examples of this advanced behavior.</p> <p>Example:  com.other.FormulaCustomUserField: allows you to define an OGNL formula for field values</p> <p>The Metrics section gives more examples of common uses for these advanced fields.</p>

## Field Attributes

The field attributes help with the display of custom fields, which otherwise display in a common two column format within defined sections as seen below in the Info section. Additional field attributes may also be used to deviate from this layout (in addition to field order configuration).

**Use Full Row:** The blank space next to the Status field occurs when a blank field is added in Field Order, or simply when a full row field is displayed after an odd number of regular fields. In the example above, the Comment field is an RTF textarea which is always a full row. However, any regular field can span a full line with this option in the same manner. It would not span multiple rows, since it will not accept new lines.

**Label Width:** Default behavior calls for the label to take 25% of the width of the line. In many cases, the label of a field may be quite long and tends to wrap. The Label width option allows you to modify the label width of a field using the full row option to use 1/4, 2/4 or 3/4 of the line.

**Wrap Label:** When the screen width changes, it is up to the browser to try and fit fields within the space provided. ATS tries not to wrap the label text where possible, because the display is affected when fields span multiple lines. However, in many cases, a long field name requires wrapping, so this option is provided.

**Add Blank:** This option adds a blank option to the top of a list field.

**Show Label above Input:** This option moves the label above the field name, spreading out the layout for readability and giving more room for the label text. If this is used, best results are achieved when it is done to all the fields in a section. The following Checklist Example shows all the fields using this option.

Figure 21: Checklist Example (Showing Label Above and Hint option)

**Show Hint:** The show hint option will show a clickable info icon which allows the user to view an inline hint which is configured by the administrator. The Checklist example above shows the hint icon next to the Title field label. When clicked, a small inline window shows the field hint information.

**Configure Translations:** The system language strings can be configured in the Customize Strings feature of general setup. This allows the administrator to configure multiple languages but does not allow any means of configuring the custom fields for ATS. This Configure Translations option turns on language configuration for a particular string and any list items for this string. Once configured, the field list will display a Configure Translations option in the custom field listing as below:

## Field Administration

Note: Field Ids used by some advanced functions

- [ Edit Field ] Example [ Delete ] [Field Id: 1, Type: List]
- [ Edit Field ] Example 2 [ Delete ] [Field Id: 2, Type: String] [Configure Translations](#)

Note: Reordering custom fields here does not affect their layout when viewing Issue det.

Figure 22: Field Translation Option Turned On

When selected, you will be able to define strings for each language. If there are list options, and additional set of strings will be listed, where string lists must match on a line for line basis.

## History Attributes

Every issue tracked within ATS has full history traceback which is recorded and displayed as the final section when viewing an issue. The user has the option of showing this traceback in a number of forms by selecting the appropriate traceback option in the history section header.

The following images show the three main formats available, with the two remaining formats being mixes of these three.

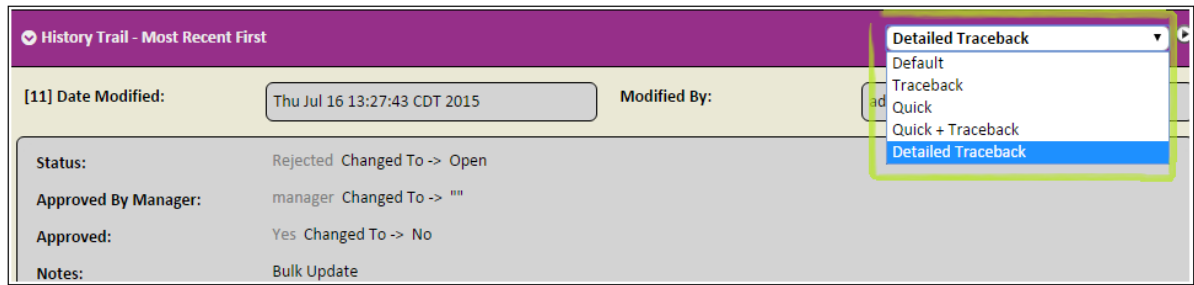


Figure 23: Traceback History Format

The **Default** history format is a dated feature which shows a select group of fields in the history traceback. Additional user fields can be added to this format by configuring the fields as history type field, using the history attribute.

The **Traceback** history format is the most common and informative history format. It displays all field changes for a given update.

The **Quick** history format simply shows an itemized list of entries for an issue with a limited common set of default fields. Further historical changes are only visible by changing the history format.

**Traceback + Quick** format displays all field updates for it's limited set of default fields.

The **Detailed Traceback** format displays all history along with the last user per updated field.

## 6.2 Default Fields

ATS is equipped with special purpose default fields, which allow you to start using the product immediately following installation. The naming, position and visibility of these default fields depends on the template that you are using. Some of these fields require you to define the values available to them (ie: drop-down fields). They may consist of Project, Status, Priority, Comment/Description or more. These default fields can be configured from the Default Fields page located under Field Layout.

On the Default Fields page, you have the option of disabling Environment, Version, Area, and the Project Management fields if they are not desired. This is essentially the same as hiding them in the Field Controls menu. You also have options to enable the first/last comment fields (or description on the bug template). This is useful for making the latest comment visible in the details section (or higher), so that users do not need to sort through the history.

The following two visuals illustrate the Default Field links on the Default Field page. Once you are familiar with default fields, you can disable and/or enable default fields and make changes to the existing default field values as required.

Table 6: Default Fields and Descriptions

Default Field	Description
Project	The project field lets you group issues to a common project, which helps you segregate data and can then be used by groups to limit access to relevant data. Therefore, groups of users can be limited to working on specific projects in the system. Updating the project values will affect the menus that appear when creating and modifying issues. If a value is deleted and issues are currently set to this value, they will continue to be set to this value.
Status	The status fields refer to the different states that an issue can assume. The guiding principle is that each issue migrates through a series of states until it is eventually Closed. The default status fields (in order) are: Open, Ready For Retest, Rejected, Deferred, and Closed. Updating these values will affect the menu options that appear when creating and modifying issues. If a value is deleted, and issues are currently set to this value, they will continue to be set to this value. For more information about issues, see the ATS User Manual available at <a href="http://www.alceatech.com/support/documentation.html">http://www.alceatech.com/support/documentation.html</a> .
Priority	The priority field is used to rate the importance of an issue within the software application. A unique integer value (number) must be specified for each priority. When priorities are displayed, they are sorted by this numeric value. This allows a team to sort issues according to importance, and fix the most important problems first. The default field values are: 1 - Emergency, 2 - High, 3 - Medium, 4 - Low, 5 - Very Low, and 6 - Change Request.
Area	General purpose drop-down field usually allocated for the area of the organization that the issue is related to (ie: Sales, IT, Staffing, Billing, Management)
Environment	General purpose drop-down field usually used to define the environment that the issue was discovered in. (ie: Windows, Unix, Mac for computer problems).
Description (Comment)	The description field allows every update to have a corresponding description or comment. In many cases, this field is renamed to "Notes" or "Comments". It is by default a history field, so that every historical update is shown with the description applicable to that change. It is a unique field in that there is no overall value that is shown in the details section of the view/edit issue screen. In this case, it is just a historical field.

Figure 24: Default Field Page

## Disabling and Enabling Default Fields

You can enable/disable several default field options, depending on your needs.

To enable/disable default fields

- 1 On the **Admin Menu** page under **Field Layout**, click the **Default Field** link or **General Settings** option in drop-down skins.
- 2 On the **Default Field** page, select one of the following check boxes that corresponds to the field you want to enable or disable:
  - **Disable Env/Version Fields** - removes the default Environment and Version fields from the system.
  - **Disable Area Field** - removes the default Area from the system.
  - **Disable Project Management Fields** - removes the Project Management section from the system.
  - **Enable First Comment Field** - shows a separate field which displays the first history comment.
  - **Enable First Non Blank Comment Field** - ignores any blank comments as first



- 
- Enable Last Comment Field - shows a separate field which displays the last history comment.
  - Enable Last Non Blank Comment Field - ignores any blank comments as last
  - Enable Last Comment Field Only If Closed - only displays the last comment if an issue is still open.
  - Show Full Discussion - shows a full discussion field with all history comments in the main details section where the comment field appears.
  - Default Comment Field in RTF mode - defaults the comment field in Rich Text format, showing formatting icons and rich text display.

3 Click **Change Settings**.

## Adding and Deleting Default Field Values

You can add new values to any of the default fields. For example, you can add a new project to the default Project field to begin tracking a new project.

## Adding and Deleting Status Levels

The following procedures outline how to add or delete status levels by using the default status field.



To add a status level

- 1 On the **Admin Menu** page under **Field Layout**, click the **Default Field** link.
- 2 On the **Default Field** page, click the **Status** link.
- 3 On the **Status Administration** page, type a name in the empty box beside the Add button.
- 4 Click **Add**.

To delete a status level

- 1 On the **Admin Menu** page under Field Layout, click the **Default Field** link.
- 2 On the **Default Field** page, click the **Status** link.
- 3 On the **Status Administration** page, click the **Delete** link that corresponds to the status value you want to delete.

### Status Administration

-     Open [ Delete ] [ Delete All ]
-     On Hold [ Delete ] [ Delete All ]
-     Rejected [ Delete ] [ Delete All ]
-     Closed [ Delete ] [ Delete All ]

**Note:**  
 The initial status is controlled by sDefaultStatus.  
 The Hidden/Displayed type is controlled by sHiddenComparison. These are both configurable strings.

Sort Order:

Alphabetically

Load Order

Preview: Open ▼

Figure 25: Adding a New Status Level or Deleting an Outdated Status Level

## Adding and Deleting Priority Levels

The following procedures outline how to add or delete priority levels by using the default priority field.

Please note that ATS also lets you sort how the list of priority levels will appear in the Priority drop-down box on the New Issue page. For more information about sorting, see the section on Sorting and Previewing.

To add a priority level

- 1 On the **Admin Menu** page under **Field Layout**, click the **Default Fields** link.
- 2 On the **Default Fields** page, click the **Priority** link.
- 3 On the **Priority Administration** page, type a numeric in the Id box, then type a name in the value box.
- 4 Click **Add**.

To delete a priority level

- 1 On the **Admin Menu** page under **Field Layout**, click the **Default Fields** link.
- 2 On the **Default Fields** page, click the **Priority** link.
- 3 On the **Priority Administration** page, click the **Delete** link that corresponds to the priority level you want to delete.
- 4 Click OK/Cancel to Confirm/Delete

### Priority Administration

- 1=1 - Emergency [ Delete ] [ Delete All ]
- 2=2 - High [ Delete ] [ Delete All ]
- 3=3 - Medium [ Delete ] [ Delete All ]
- 4=4 - Low [ Delete ] [ Delete All ]
- 5=5 - Very Low [ Delete ] [ Delete All ]

ID:  Value:

Sort Order:

Alphabetically

Load Order

Preview:

Figure 26: Adding or Deleting a Priority Level

## Adding and Deleting Projects

The Project Admin menu, accessed from the Default Field section of the Admin Menu, is composed of a current project list on the right of the screen and a Project Details control tab, on the left of your screen for setting specific project properties.

### Project Administration

**Project Details**

Project Name:

Add to Projects Visible for Groups:    
Master List

Advanced Projects details are optional!  
Prefix tags all ids with a prefix string. This can be useful to distinguish between issues in separate Projects.  
Unique ids allow you to create Projects with their own set of ids, rather than having unique ids span all Projects.  
Start Index allows you to start the unique ids at a specified value.

Prefix:

Suffix:

Use Unique Ids

Set Next Id:

(Warning: resetting this for existing Projects to a lower value can overwrite existing data)

---

Add To Selected Tracks:    
Project   
Customer   
Assignments   
Demo Projects \*

> Admin Menu > Default Field > Project ( Clear )  
Related Menus: User | Group

**Project List**

- [ Delete All ] Project1
- [ Delete All ] Project2
- [ Delete All ] Project3
- [ Delete All ] FAQ

Sort Order:

Alphabetically

Load Order

Preview:

[Configure Translations](#)

Figure 27: Project Administration Menu

---

The Project List allows you to edit, delete or change the order of existing projects. As with other drop-downs in this system, you can list the projects alphabetically, or you can create your own order by setting the “Sort Order” attribute, located below the Project List. If you are ordering the items yourself, you will notice icons on the left of the list to move items up or down the list. You can also drag items up and down.

The following procedures outline how to add or delete a project by using the default project field.

To add new project

- 1 On the **Admin Menu** page under **Field Layout**, click the **Default Field** link.
- 2 On the **Default Field** page, click the **Projects** link.
- 3 On the **Project Administration** page, type a name in the **Project Name** box.
- 4 Set the appropriate attributes for the project as defined on the next page.
- 5 Click **Add**.

To delete a project

- 1 On the **Admin Menu** page under **Field Layout**, click the **Default Field** link.
- 2 On the **Default Field** page, click the **Project** link.
- 3 On the **Project Administration** page, click the **Delete** link that corresponds to the project you want to delete.
- 4 Select Ok/Cancel to Confirm/Delete

Project Attributes

The following attributes are located on the Project Details menu.

Add to Projects Visible for Groups: this is a convenience option for making new projects visible to other groups without needing to go and manually add a new project to a list of groups one at a time.

**NOTE** The list of groups can be confusing here when editing a project because the default behaviour of a group is to show all projects. If you see a group selected here and you have not manually added it, it is probably because it is set to see all groups.

**NOTE** This option is only available to add projects to groups. You can not use this selection to remove a project from a group because groups will show a project if no groups are selected as visible.

Prefix: You may create a prefix to be shown in front of the id for all issues in a given project.

Suffix: You may configure a suffix to be shown next to the id for all issues in a given project.

Use Unique Ids: This flag ensures that a given project has it's own set of ids. This means that the sequential numbering of the given project solely reflects issues in that project.

**NOTE** Since a Unique project has it's own set of Ids, you can not move an issue to/from a unique project, as it may overwrite an issue in the other project.

---

**Set Next Id:** You can use this to set the next id for a given project. All future ids will increment from this value.

**WARNING** If you set this to a value which is lower than some of your existing issues, this option will overwrite existing data as the id is incremented.

**Add To Selected Tracks:** In many cases, a configuration is desired across multiple tracks. This option propagates the same change across any selected tracks, so the changes do not have to be done manually again.

---

## 7.0 Field Hierarchy

Field relationships between drop-down lists can be created with the use of the Field Hierarchy page. This feature lets you link a parent field to a child field so that any modifications to the parent field will change the list options that are available in the child field. This makes sure that the values of two fields will match. Multiple relationships can be created for a parent to control a number of child fields. It is also possible to create levels of hierarchies so that the child field also controls a hierarchy for another relationship.

If a field is deleted, the hierarchy must be deleted manually, or users may see an error.

To establish field hierarchy

- 1 On the **Admin Menu** page under **Field Layout**, click the **Field Hierarchy** link.
- 2 On the **Field Hierarchy** page, select a parent field from the **Parent Field** drop-down box.
- 3 Select a child field from the **Child Field** drop-down box.
- 4 Click **New Field Hierarchy**.
- 5 Set the desired relationships, using one of the two edit formats.
- 6 Check your relationship is correct, using the View Relationship (current settings) feature, at the bottom of each edit menu.

After a hierarchy is created, the relationships can then be handled in one of two ways (direct or table relationship). There are links between the two from both screens, so you can evaluate which is best for you. The main hierarchy list allows you to add new relationships or modify existing ones.

**Field Hierarchy**
[BACK TO FIELD HIERARCHY](#)

This Field Hierarchy edit page allows you to make specific updates to your field hierarchy relationships. Alternatively, the **Table View** provides a simple table showing all relationships (unless rows and columns exceed 100) or you can use the **Import | Export** options.

**Step 1: Choose Relationship to change**

This control allows you to load the current relationships which match a particular parent or child value. This will update the selections below, where you can proceed to Step 2 and make modifications.

Parent:   ⓘ

Child:   ⓘ

---

**Step 2: Make Modifications**

You can now match parents/children to update an existing relationship or save a complete relationship. Use CTRL to select multiple items.

**Parent:**

Building Type

House  
Apartment

**Child:**

Client

Client A  
Client B  
Client C

**Options:**

Disable

Use Groups to control child User List options

->

(Adding to Existing Relationships for Selected Parents)
  (Clear old Relationships for Selected Parents)

**View the current Building Type/Client relationships.**

Building Type:  Client:

Figure 28: Field Hierarchy Edit Page

## Table Hierarchy Edit

The most convenient method for setting up relationships is to use the table view, where relationships are made by simply checking off the cell of a matrix, where parent values make up the columns and child values make up the rows. When the box is enabled, the child will be listed as a valid option whenever the corresponding parent has been selected.

**Field Hierarchy** BACK TO FIELD

This Field Hierarchy table allows you to set your field hierarchy relationships in a table format.  
 If the table is too large to manage, try : [Simple Edit](#) for making direct relationships or the [Import](#) | [Export](#) options.

**Modify Relationship**  
 Make changes to relationships by checking off matching row/column pairs.  
 The mouseover event will indicate the matching elements as you move the mouse over the checkboxes.

Minimize/Maximize header text (hover to get full title)  Try Vertical text

	Building Type		
Client	House	Apartment	
Client A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Row
Client B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Row
Client C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Row
	<input checked="" type="checkbox"/> Col	<input checked="" type="checkbox"/> Col	<input checked="" type="checkbox"/> ALL

**Options:**

Disable  
 Use Groups to control child User List options

Hide By Group (optional):  
 (ie: can simplify Project/AssignedTo relationships)  
 Master List   
 Manager Group

Figure 29: Creating a Table Hierarchal Relationship

## Direct Hierarchy Edit

When relationships get too large to handle in a table, you may need or prefer to edit your them with the general edit method, where specific relationships are edited for one row or column at a time. In this case, you must choose the specific relationship that you want to change, and then proceed to Step 2, to actually make the modification, in one of two ways.

The **Update** submit button will save your changes in addition to any existing settings for the current Parent. This allows you to simply select the new items that you want to associate to a parent value (or set of parents).

The **Save** submit button will save your setting for the selected parent as the complete relationship and any existing values for that parent will be overwritten.



---

## 8.0 Field Controls

The Field Control page is used to enforce and/or restrict field information for different parties. All control properties are set for each group, allowing the creation of different roles levels and different access permissions for users.

Fields and Sections appear down the page in the sequential order that they are displayed in the system, matching the field order screen. Settings for each group are then displayed as a column, where the field or section attributes can be set for that particular group.

Each section can be set as Open (default), Closed or Hidden. A Closed section will simply default in the closed/minimized position, requiring you to click on the open icon to view details of a field within that section.

Field attributes depend on the type of field. Most fields allow you to control visibility or the mandatory/required setting which forces users to enter data for a given field. If a field is read only by nature (ie: Info Section), this setting is not listed, nor is the Read/Write Attribute.

The mandatory setting forces users to enter data in a specific field. This option adds a red exclamation mark (!) image on the left of a mandatory field, so that it is obvious to the user. If the user does not edit the field, they are presented with an error prompt, until they comply.

There are three mandatory setting options:

- **Blank** —Not necessary
- **Yes** —Forces a user to submit data when a new issue is created. This is useful to ensure that users add enough information for a new issue and do not accidentally skip or leave an important field blank.
- **Always** —Takes the functionality one step further, by ensuring that data is entered at every step. This is extremely useful for the “Assigned To” field so that the correct person is sent the notification on every update. Without this setting, an updater may forget to change the username and the notification may never be sent.

Field data can also be restricted by group using any of the following options:

- **Read/Write** — Default for all editable fields. This option allows a field to be read and modified on any update.
- **Read Only** — Restricts a group to reading privileges only.
- **RO After Created (AC)** —Write access is only given on the New Issue form.
- **Hidden** —Hides a field from a group on all screens.

The following figure displays field controls for three groups (Master List, normal and Developers). The Assigned To and Project fields have been set to Mandatory and Mandatory always for the Master List group.

Figure 30: Field Control Page

**Control Options:**

- Read/Write (blank or R/W)
- Read Only (RO)
- RO After Created (AC)
- Hidden (H)

**Mandatory Fields** ensure that a user enters data during an update.

- No - not necessary (blank or N)
- Yes, must have a value (Y)
- Always needs a new value on each update (A)

**Show Groups:** Manager Group, Master List

**Show Fields:** Approved, Approved By Manager, Assigned To, Attachments

[Change Table](#)

	Master List	Manager Group
<b>Info</b>		
Elapsed Time	RO	RO
Entered By	RO	RO
Date Entered	RO	RO
Last Modified By	RO	RO
Date Last Modified	RO	RO
<b>Details</b>		
Project Name	Y	Y
Building Type	Y	Y
Client	Y	Y
Contract	Y	Y

To apply field controls

- 1 On the **Admin Menu** page under **Field Layout**, click the **Field Control** link.
- 2 On the **Field Control** page, make sure that the group columns are visible for the groups you want to modify.
- 3 Set the attributes for the relevant fields.
- 4 Click **Save**.

This page gets unmanageable for systems with large numbers of groups, so groups are hidden by default if there are more than 10. In this case, you must select the groups that you want to change manually from the “Show Groups” area.

### Copy Settings Tab

Configuring fields for multiple groups can be a relatively long process on larger systems. Therefore, the copy settings feature allows you to copy field control settings from one group to another. Simply choose the group that you want to copy settings from and then the groups that you wish to copy the settings to. All settings for the second group list will be overwritten.

## 9.0 Field Order

The Field Order page is used to rearrange the field layout on the New/Edit/View Issue screens. A list of fields is displayed on the left side of the screen, and the various functions, as well as a legend, are displayed on the right. The legend differentiates between default fields, custom fields, sections, blank fields, and a special marker, the custom field target slot.

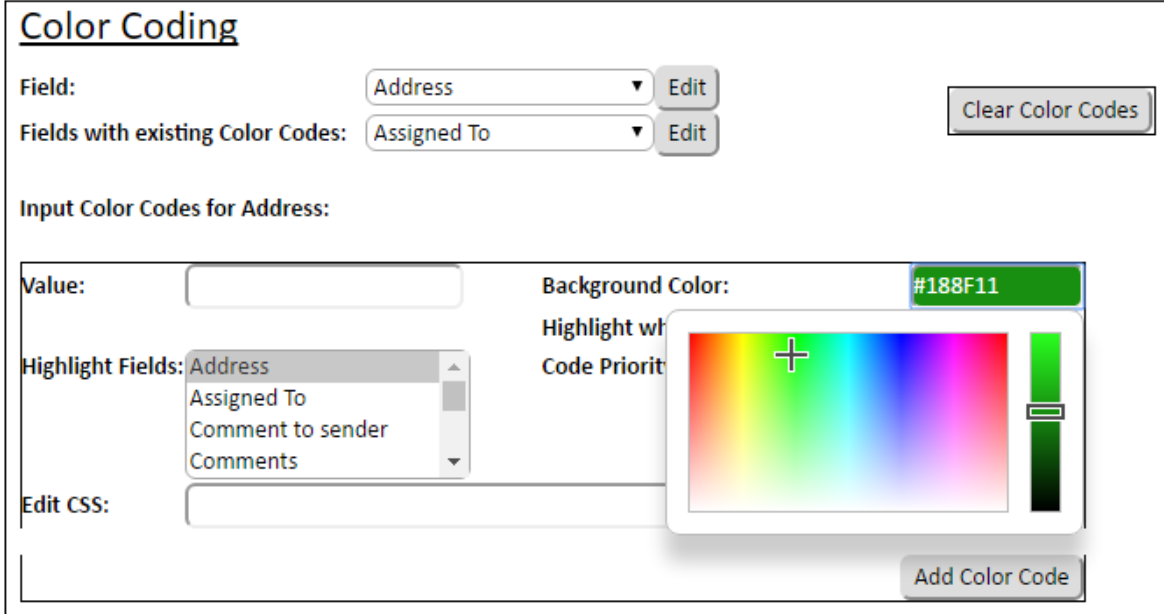
- Moving the various fields up and down the list will change the order they are displayed on the New/Edit/View Issue screens.
- New sections can be created with the Add Section button. Sections can also be deleted from the list. If any of the four default sections (Info, Details, Attachments or Project Management) are deleted, they can be recreated by pressing the Restore Default Sections button.
- Blank fields can be added with the Add Blank Field button. These are used for spacing.
- The Hide/Show Hidden Fields button will hide or show hidden fields in the list of fields on the left side of the page.
- The Reset Field Order button will return the field order to the default layout.
- The New Custom Field Target Slot is a special marker that can be moved up and down in the list like a regular field. When new custom fields are added to the system, they will be placed into the field order above this marker.

Field	Action	Order	Delete
<b>Info</b>	Rename	[Up][Down][Left][Right]	[ Delete ]
Project ID		[Up][Down][Left][Right]	
Elapsed Time		[Up][Down][Left][Right]	
Entered By		[Up][Down][Left][Right]	
Date Entered		[Up][Down][Left][Right]	
Last Modified By		[Up][Down][Left][Right]	
Date Last Modified		[Up][Down][Left][Right]	
<b>Details</b>	Rename	[Up][Down][Left][Right]	[ Delete ]
Project Name	Edit	[Up][Down][Left][Right]	[ Delete ]
Building Type	Edit	[Up][Down][Left][Right]	[ Delete ]
Client	Edit	[Up][Down][Left][Right]	[ Delete ]
Status		[Up][Down][Left][Right]	
Blank Field	Edit HTML	[Up][Down][Left][Right]	[ Delete ]
<b>Tasks</b>	Edit	[Up][Down][Left][Right]	[ Delete ]
Task Total	Edit	[Up][Down][Left][Right]	[ Delete ]
Percent Discount	Edit	[Up][Down][Left][Right]	[ Delete ]
Total	Edit	[Up][Down][Left][Right]	[ Delete ]
Estimated Completion Date	Edit	[Up][Down][Left][Right]	[ Delete ]
<b>Manager Approval</b>	Rename	[Up][Down][Left][Right]	[ Delete ]
Approved By Manager	Edit	[Up][Down][Left][Right]	[ Delete ]
Approved	Edit	[Up][Down][Left][Right]	[ Delete ]
<b>New custom fields added here</b>		[Up][Down][Left][Right]	
<b>Comments and Notification</b>	Rename	[Up][Down][Left][Right]	[ Delete ]
Comment		[Up][Down][Left][Right]	
Notify List		[Up][Down][Left][Right]	

Figure 30: Field Order Menu

## 9.1 Color Coding

The Color Coding menu is used to set up rules for highlighting the fields displayed in the Main Menu table. The "Field" drop-down is used to select a field to add color codes to. After a field is selected, the "Input Color Codes" form allows you to set coloring options including the background and fields you wish to be highlighted. You may also add your own custom CSS attributes which will be applied to the selected fields.



**Color Coding**

Field:  Edit

Fields with existing Color Codes:  Edit

Clear Color Codes

Input Color Codes for Address:

Value:

Background Color:

Highlight Fields:  (dropdown menu: Address, Assigned To, Comment to sender, Comments)

Highlight with Code Priority:

Edit CSS:

Add Color Code

Figure 31: Color Coding Attributes (v10.01, with Color Picker)

When values in the main menu table match the rules set up here, the corresponding table cells are rendered with the desired color. Once a rule is added, it appears in the "Existing Color Codes" list. From here, color codes can be reordered, edited, or deleted. The field will now appear in the "Fields with existing color codes" drop-down (for quicker access).

Ticket ID ^	Subject	Assigned To	Date Last Modified	Status	Priority
Edit   Legal-60 >	Claim there was inadequate time to cover off Priva..	Dwayne	Jan 13 2015 (11:35)	Blocked	Important
Edit   Legal-57 >	Tender is specific that only one firm has been inv..	Unassigned	Jan 05 2015 (08:54)	Rejected	Important
Edit   Legal-56 >	We were told if we complained we would never be aw..	Unassigned	Nov 02 2014 (22:52)	Rejected	Urgent
Edit   IT -55 >	How do I identify user accounts who have been inac..	admin	Nov 25 2014 (12:27)	Answered	Important

Figure 32: Color Coding Example

---

The color codes shown in the above example are explained below:

\* In the Bug Id column, the top three cells are colored silver and are given a black outline. This is achieved with a color code where Bug ID is greater than "ROBOT-001".

<http://www.alceatech.com/support/admin/images/cc-ex1.gif>

\* In the Subject column, cells containing the word "test" are colored grey, and cells containing the word "sales" are colored lime green. Note that issues containing both "test" as well as "sales" in the subject will be colored grey, because the "test" rule is placed above the "sales" rule, giving it priority.

<http://www.alceatech.com/support/admin/images/cc-ex2.gif>

\* In the Status column, "Ready For Retest" and "Rejected" cells are colored, and are given a two pixel wide border. Also, "Closed" cells are colored silver.

<http://www.alceatech.com/support/admin/images/cc-ex3.gif>

\* In the Priority column, the severity of the issue corresponds to a change in hue from red to yellow.

<http://www.alceatech.com/support/admin/images/cc-ex4.gif>

\* For the Assigned To column, two color codes rules have been set up. If an issue is assigned to a user in the same group as the current user, it is colored teal with aqua text and border. If the issue is assigned to the current user, another rule gives the cell the same coloring, except with bold, yellow text. (Note that the CURRENT\_USER rule is placed above the CURRENT\_GROUP rule to give it priority).

<http://www.alceatech.com/support/admin/images/cc-ex5.gif>

\* In the Date Modified column, issues that have been modified on the current date (Sept 14th) are given a green background color.

<http://www.alceatech.com/support/admin/images/cc-ex6.gif>

\* Lastly, in the Requested Due Date column, issues that are due "today" or "yesterday" are colored with a red background, white, bold text, and an orange border. As well, they are set to take up the whole row of the main menu.

<http://www.alceatech.com/support/admin/images/cc-ex7.gif>

Other Color Coding functionality:

\* When creating a color code there is a "Priority" option. Entering 0 gives the color code the lowest possible priority. A color code with higher priority will replace a color code with a lower priority. For example, say you have two color codes in your system; one that makes the background color red if the issue is Assigned To "John Doe" and colors the whole row, and the other makes the background color green if an issue's Status is "Open". View 'Screenshot 1' below to see what the main menu would look like if the first color code is given higher priority. Then, view Screenshot 2 to see what it would look like if the second color code is given higher priority.

navy olive purple red silver teal white yellow  
For other colors, you should use hex codes (e.g. #FF9900 is orange)

Value: admin [Current User] Background Color:

Billing IT Legal Master List Highlight whole row on Main Menu:

Highlight Fields: Assigned To Code Priority: 50

Company Date Entered Date Last Modified Edit CSS:

Figure 33: Setting Color Coding Priority

\* There is also a "Highlight Fields" selection box, which contains all visible fields in the system. Whichever field the color code is being created for is selected by default, but by selecting more fields you can have the color code applied to other fields as well. For example, say we create a color code for Status that sets the background color to green if the issue's status is "Ready For Retest", but then we select "Subject" in the Highlight Fields selection box.

Defect ID	Subject	Assigned To	Status	Priority
Edit   1334 >	New snag for demo	Sean	Open	3 - Medium
Edit   1333 >	URL error	Ken	Open	2 - High
Edit   1292 >	Lookup user account create date	Dan	Deferred	2 - High
Edit   1326 >	Deleting old users	Hugo	Deferred	4 - Low
Edit   1322 >	Question	Elena	Ready For Retest	3 - Medium
Edit   1328 >	Line breaks for "field defaults"?	Guy	Ready For Retest	Critical
Edit   1323 >	Question	admin	Rejected	Critical

Figure 34: Color Coding Subject based on Status

NOTE Individual users are given an option in their profile that allows them to enable or disable color coding.

## 10.0 Workflow Overview

Workflow allows you to define rules for field access, modifications and layout, based on the state of an issue, in addition to the field control settings which are setup globally. A workflow rule will enable you to catch flow states of issues and define possible future states or immediate actions based on the current state of an issue. Common examples include:

- set field defaults
- notify user when a bug hits a given state (Example 1)
- hide a section of fields from a group (Example2)
- change a field automatically (Example 3)
- control the flow of an issue from state to state. (Example 4)
- control who can close an issue. (Example 4)

Workflow rules are defined by a filter definition that is compared/tested against the state of issues any time data is retrieved or modified. If an issue is matched, a set of requirements and restrictions can be tested, actions can be executed, and field access (controls) or options (flow) can be modified accordingly.

When a rule definition matches the state of a desired issue, the rule's attributes are checked to see if any changes are needed in the regular process or display of the issue. The "Field Controls" and "Flow Control" attributes control any changes needed when viewing/modifying an issue. The "Restrictions" and "Pre/Post Requirements" are checked before any changes to an issue can be made. The "Actions" are executed after a change is successfully made.

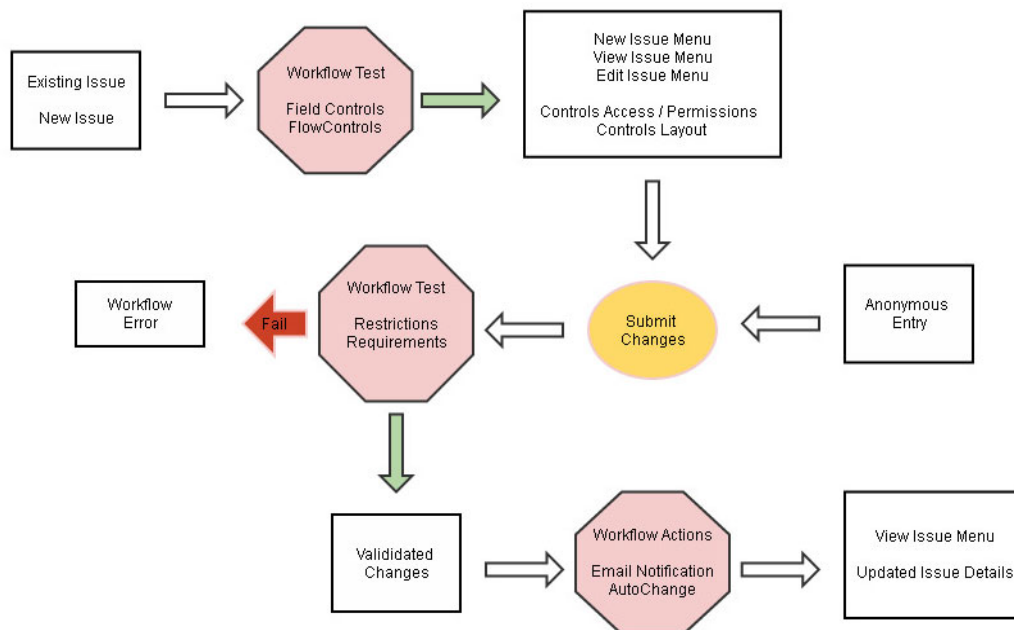


Figure 30: The workflow process

## Workflow Attributes

The following table defines the attributes that make up a workflow rule. The rule is defined by a state definition which is tested against an issue, to determine if the other rule attributes are to be invoked at every stage in the life of that issue. Restrictions, Requirements and Actions are attributes that are checked when an issue is modified. Flow Controls and Field Controls are attributes which alter the interface and corresponding controls available to a user when they are editing/viewing an existing state of an issue. In order to see all the controls, you must first create a rule in the summary.

Table 7 : Workflow Attributes

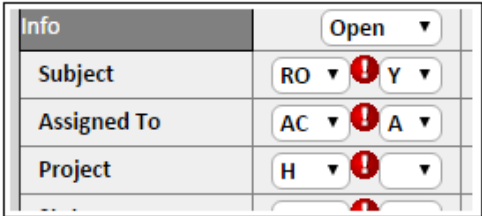
Summary	
General Options	<p>When a request to the system is made, workflow rules are read sequentially to build a master rule which will be used to control the request being made. However, if a rule matches the current criteria the default behavior is to jump out of this list and use the controls that were just found.</p> <p><u>Rule Name/Comment</u>: A simple way for you to document your rules.</p> <p>Copy Rule - allows you to make a clone of this rule for a similar purpose.</p> <p>New Rule - clears the form to create a completely new rule.</p> <p><u>Continue Building Rule</u>: specifies that the properties of a rule are simply added to the properties of the master rule and the system does not stop after a match to this rule is made.</p> <p><u>Overwrite all settings from prior rules</u>: specifies that any attribute from a matching rule will overwrite the master setting, rather than being appended to the current master set.</p> <p><u>Special Purpose (event/other rule)</u> : stops a rule from being considered in general requests to the system. Instead, the rule is only used by events or links from other advanced rules.</p> <p><u>Disable Rule</u> : stops a rule from being used</p>
Definition	
State Definition	<p>The State Definition is a set of general options, combined with a system filter, that are used to identify when the rule will be used. Issues are checked against a rule definition to see if the current rule is relevant.</p> <p>General Usage Options:</p> <p><u>Normal Changes to Existing Issues</u>: specifies that this rule should be checked for all requests on existing issues in the system.</p> <p><u>New Entries</u>: specifies that this rule should be checked for all new issue requests.</p> <p><u>Clone Entries</u> : specifies that this rule should be checked for all clone requests</p>
Pre State Definition	<p>The prior state of an issue is checked to make sure that the rule is only used for issues coming from a specific state.</p>
Restrictions	<p>Restrictions are used to determine what individuals are allowed to move an issue to a given state. If a restricted user tries to move an issue to a state, they are returned an error message.</p>
Requirements	<p>A workflow rule can test that a given set of requirements exist, before allowing an issue to reach a given state. Requirements are defined as a filter, just like the actual workflow definition. If the requirement filter is not passed, the user is returned an error message</p>



Table 7: Workflow Attributes

Pre Requirements	A filter definition that is tested before any changes are made to an issue to ensure that the requirements are met before an edit is performed. If this test fails, the change will not be allowed.
Post Requirements	A filter definition that is tested to determine if the post state of the issue will meet a set of criteria after a change is made. If this test fails, the change will not be allowed.
Actions	<p>If the new state of an issue matches a given workflow definition and the requirements and restrictions are passed, then a set of actions can be performed on the issue state change.</p> <p>The Action <u>Notify List</u> is used to notify users of this state change.</p> <p>The <u>Auto Change</u> field options allow you to change the value for a specified field.</p> <p>The <u>OGNL Formula</u> allows you to use the actual fields of the internal Java BugStruct class in an OGNL assignment.</p> <p>You can use existing bug attributes in workflow auto change. (ie: re-assign to creator by auto changing assignedTo field back to &lt;SUB bsm Entered By&gt; See full list of BugStruct fields in Rank docs.</p> <p>The <u>Advanced Auto Change</u> option allows you to change from normal auto change updates to auto creation of new issues or auto updates of a set of existing issues.</p> <ul style="list-style-type: none"> <li>- Normal : a rule will use auto change for the issue that hits the rule, changing any of the fields listed in the auto change field settings area.</li> <li>- Create (using (another rule)) : this option allows you to fire another rule which will create multiple issues for every issue matching the filter definition of the selected rule. The new issues will be created in the track where the selected rule is defined and you can set field defaults using auto change field settings area of that selected rule. A safety value can also be set so that you can not overflow your system with issues by setting an undefinitive filter definition.</li> <li>- Create a new item : simply spawns one new item when the rule is hit. Very useful from the Events feature.</li> </ul> <p>NOTE The new Disable option allows you to only allow a rule to be used when run from an event or another rule.</p> <p>NOTE You can use also workflow rules from the Event Scheduling feature.</p>
Controls	
Flow Control	<p>Flow Control limits the list options for the given state.</p> <p>The example given says that for a bug in the [Ready to Release] state, the only selectable options that will show up will be the ones listed: "Closed", "Deferred", "Ready For Release", "Ready For Retest", "Rejected"</p> <p>You should include the one in the state definition, because it is the one that needs to be defaulted to. If it is not present, the first one in the list will be selected by default and may not be noticed. Alternatively, you could make it an always mandatory field, so that something is always chosen.</p>

**Table 7: Workflow Attributes**

Field Control	<p>The workflow field controls are used to control field attributes for the current state. This option expands the Field Control menu in the Admin Menu which is limited to group sets.</p> <p>The <u>Mandatory</u> setting forces users to enter data in a specific field. This option adds an exclamation image in front of a mandatory field so that it is obvious to the user. If the user does not edit the field, they are presented with an error message and must hit the back button.</p> <p>There are two classifications of the mandatory setting. The Yes option forces a user to submit data when a new issue is created. This is useful to ensure that users add enough information for a new issue and do not accidentally enter the default setting, or leave an important field blank. The Always option takes the functionality one step further, by ensuring that data is entered at every step. This is extremely useful for the AssignedTo field so that the correct person is sent the notification on every update. Without this setting, an updater may forget to change the user name and the notification may never be sent.</p> <p>Field data can also be restricted using any of the following options:          The <u>Read/Write</u> (R/W) option is the default for all editable fields. This option allows a field to be read and modified on any update.          The <u>Read Only</u> (RO) option restricts a group to reading privileges only.          The <u>Hidden</u> (H) option hides a field on all screens.          The <u>RO After Create</u> (AC) option restricts reading privileges after the issue is created.</p> 
---------------	--

## Order is Important

The rules are arranged in a sequential lookup order that is used when determining if an issue state matches any existing workflow rules. When a match occurs, that workflow rule is used to control what actions to take for an issue. The remaining rules are skipped.

## Multiple ways to do things

There are always a number of ways to enforce a given rule. You must determine the best method in your case. As a rule, the after the fact states are the simplest to implement (Restriction/Requirements) as they simply give an error message when a rule is not allowed. The pre state attributes (Field Controls/Flow Controls) allow you to do more complex rules (especially for enforcing flow) but they will take more rules to implement what you want.

For example, restricting the Closed state can be done in the following ways:

- A** - definition: Status=[Closed] and PostRequirement: LoggedIn=[AllowedUser]
- B** - definition: Status=[Closed] and Restriction: Access=[AllowedUser]
- C** - create two rules for all other states. One for the AllowedUser, which included the

Closed option in Status flow. The other for all other users that do not have access, without the Closed state in the Status flow.

Options A/B can be done with one simple rule.

Option C will allow users to see their true options beforehand, rather than simply giving the error message after the fact.

## Workflow Examples

**Example 1:** Email the Management group immediately, if there are any new Emergency issues for the Customer Support group.

The following rule reads “for all new entries which are of high priority (value 1), and that are assigned to the Customer Support group” we have a following action where “manger is sent an email notification”

Definition: New Entries, Priority=[1], Assigned To=[Customer Support]

Action: Notify=[manager1]

**Example 2:** Hide the Management Section from the General Employee group

The following rule reads “for all new/existing/cloned issues, where the logged in user is in the General Employee group” we will “hide the Management section (which includes all fields inside it)”

Definition: New Entries, Normal Changes to Existing Issues, Cloned Issues, LoggedIn=[General Employee]

Field Control: Management = [H]

**Example 3:** Automatically reassign a Closed issue back to the person who opened it

The following rule reads “for all existing issues which are in the Closed state and were just changed to the Closed state” we have an action to “automatically change the AssignedTo field back to the user which initially entered the issue (which will also notify them of the change)”

Definition: Normal Changes to Existing Issues, Status=[Closed], Field Changed=[Status]

Action: AutoChange [AssignedTo="<SUB bs.mEnteredBy>"]

**Example 4:** Flow Control

The following example shows you how you can implement the default flow states that are listed in our product overview (see Appendix A).

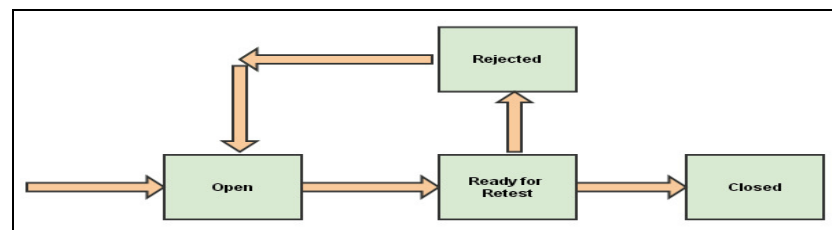


Figure 31: Basic Workflow Process Driven by Status Field

The following rules were created to achieve the desired workflow process in the previous image.



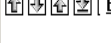

 [ Edit Rule ] New Flow	New state should always move to Open (if config option is not already set) Definition: New Entry, New Entry Only Flow Control: Status=[Open]	<a href="#">[ Delete ]</a>
 [ Edit Rule ] Open Flow	"Open" state can move to "Ready For Retest" Definition: Status=[Open] Flow Control: Status=[Ready For Retest]	<a href="#">[ Delete ]</a>
 [ Edit Rule ] Ready For Retest Flow	"Ready For Retest" state can move to "Rejected" or "Closed" state Definition: Status=[Ready For Retest] Flow Control: Status=[Rejected,Closed]	<a href="#">[ Delete ]</a>
 [ Edit Rule ] Rejected Flow	"Rejected" state can move to "Open" Definition: Status=[Rejected] Flow Control: Status=[Open]	<a href="#">[ Delete ]</a>

Figure 32: Configured Workflow Rules Controlling Example Status Flow

Example 5: The following two rules outline how to restrict the ability to close an issue

Rule 1: Set a flow control that shows all states except for Closed

Definition: New Entries, Normal Changes to Existing Issues

Flow Control: Status = [Open, Ready For Retest, Rejected]

Rule 2: Create a second rule that overrides the first one for users in QA

Definition: New Entries, Normal Changes to Existing Issues, Logged In = [QA]

Flow Control: Status = [Closed]

---

## 11.0 Rank / Escalation:

A special rank field is available to allow you to sort issues using a configurable ranking formula. The rank menu allows you to define the formula used in this calculation. The formula is based on an OGNL computation using the internal fields of the BugStruct Java class, whose fields are listed on the Rank menu, within ATS. The rank field is displayed just like any other field. It can be added as a column in the main menu and made visible to any of the issue detail screens.

The formula must return a numerical rank which is commonly used for escalation purposes. You can also set the rank to specific values that can be searched for by filters. This is very useful for triggering events, such as overdue items.

When using dates in the formulas, you must remember that dates are calculated down to the millisecond. When you enter a due date, you typically only enter the year/month/day. The system however, stores it down to the millisecond (defaulting to 0's if it has nothing else). Therefore you can not simply compare dates to the current Date() method, as the millisecond at any instance is not going to be 0's.

### Formula Examples:

Default Formula (if empty) is:

```
(100-mPriority*10)+getElapsedTime()
```

Set rank based on priority:

```
mPriority
```

Formula for setting rank to 1 for any issues that have passed their due date.

```
(mRequestedDueDate!=null) ? ( (mRequestedDueDate == new java.util.Date()) ? 1 : 0 ) : 0
```

Formula for setting rank to 1 for any issues that are Open and any issues that were closed in the last X milliseconds.

(ie: last week X=1000ms\*60sec\*60min\*24hours\*7days

```
(mCurrentStatus=="Open") ? 1 : (mCurrentStatus=="Closed" && (mDateLastModified.getTime() > new java.util.Date().getTime()-X)) ? 1 : 0
```

NOTE Substitute "X" for "new Long(XL).longValue()" for large numbers (ie: greater than 10 days)

Set rank based on priority, where priority increases (towards 1.0) as time since last modified grows... items that are priority 2 will reach priority 1 in 4 hours, items that are priority 3 will reach priority 2 in 1 day:

```
@@rint(@@max(1.0, (mPriority - (mPriority==2?(getSecondsSinceLastModified()/14400.0):0.0) - (mPriority==3?(getSecondsSinceLastModified()/86400.0):0.0)))*1000)/1000
```

Custom fields must be referenced using their field ID. For example, the following formula references a custom numerical field with id 21:

---

```
(mUserFields!=null && mUserFields.get(new Integer(21))!=null) ?  
mUserFields.get(new Integer("21")) : 0
```

We simply set rank to be the same value as the custom field here!

This formula will set (to 1) any requested due date that matches today:

```
(mRequestedDueDate!=null) ? ( (mRequestedDueDate.getDay() == new  
java.util.Date().getDay() && mRequestedDueDate.getMonth() == new  
java.util.Date().getMonth() && mRequestedDueDate.getYear() == new  
java.util.Date().getYear() ) ? 1 : 0 ) : 0
```

## 12.0 Advanced Options

Advanced options are available from the advanced option links listed on the Admin Menu page and they are illustrated in the next two visuals.

Once you are familiar with advanced options, you can perform related tasks as outlined in this section.

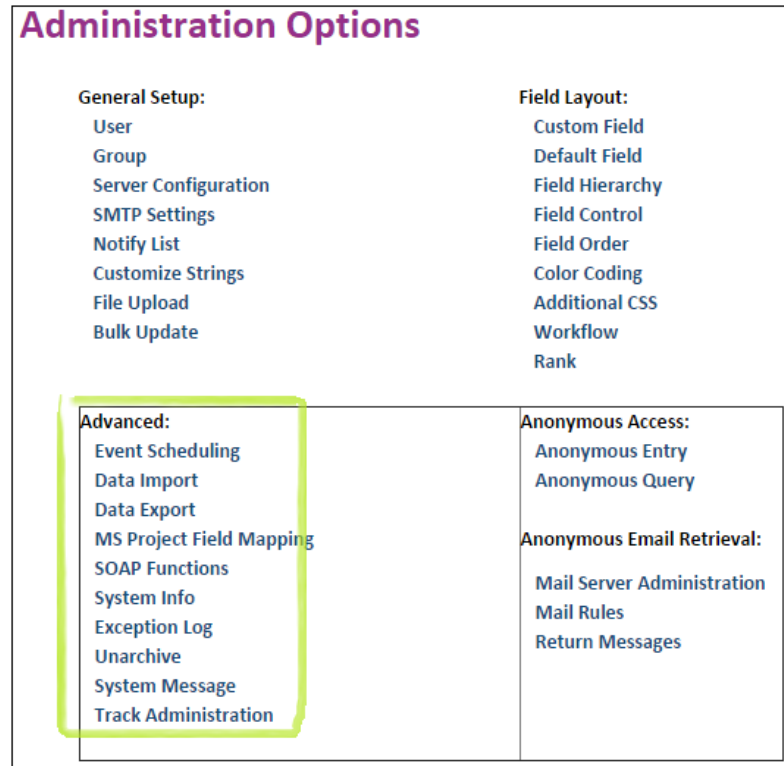


Figure 33: Specifying Advanced Option

Table 8: Advanced Option Links and Corresponding Commands

Database Administration	Controls for Connection to JDBC database (Database Module Only)
Event Scheduling	Creation/Modification of scheduled events. (ie: weekly notifications)
Data Import	Imports issues in CSV format. Also lets you remove all data from the system.
Data Export	Exports issues in CSV or XML format.
MS Project Field Mapping	Maps ATS fields to MS Project fields so that users can use the Export to MS Project option on the Main Menu
SOAP Functions	Provides a mechanism for developers to quickly query the ATS system. Details about SOAP are outlined in the SOAP Functions reference section.
System Info	Provides system information, including full server details. This helps you or other support groups address any unforeseen problems.

Exception Log	Lists past debugging exceptions. This helps you or other support groups address any unforeseen problems.
Backups	Backs up a copy of all files with a choice of including or excluding installation files.
Unarchive	Allows you to unarchive any archived issues (bX.old)
System Message	Lets you send a system message to all ATS users.
Shutdown	Gives you the option of completing a safe server shut down.
Track Administration	Allows you to activate/create tracks by configuring templates to the system.

## 12.1 Database Administration

This feature is available to systems using the database module, for making connections to a JDBC database and using the system migration feature. Please see the Database Module documentation for additional information.

## 12.2 Event Scheduling

This menu is used for defining scheduled events, including the following :

- Filtered List delivery - scheduled delivery of desired lists of issues
- Report delivery - scheduled delivery of reports
- Chart delivery - scheduled delivery of charts
- Workflow Events - scheduled execution of predefined workflow rules.
- Scheduled backups

### Event Details

The Event Details tab allows you to define when an event is to start running and for how long it will continue to do so.

**Task Name:** You must define a name for your event. This event is then available on the top of the menu for editing or deleting

**Start Date:** The day that this event is to begin.

**Start Time :** The hour that this event will begin.

**Repeating:** The frequency that this event will recur.

**End Task:** Define how long this event will continue to run for.

**NOTE** The event settings are based on the start time and an event will only run if defined properly. If you have an event where the event does not have a repeat time between the start time and the end time, the event will not fire. (ie: if it is 4pm and I define an event to start this morning at 9am (default), with a repeating value of "hourly" and an End Task value of "After 5 repetitions", the event will never run.



---

NOTE If an event is set to end after a certain number of repetitions, the initial execution is not counted as a repetition. So an event set to end after five repetitions will execute a total of six times.

The remaining tabs define what the event will actually do.

## Notification Options

Generally, an event is used to inform a set of users of the state of the system at a particular time. This is done by defining a filter, chart or report format which will display the desired information in an email, each time the event executes. The Notification Options tab defines the format of any resulting email notifications.

Send Email - check this off to use any of the features on this page.

Subject - the subject to appear in the email notifications from this event

Message - an optional message you may wish to show at the top of the email notification.

Notify List - the list of individuals that you wish to send the email from this event to.

Types of Emails:

Report - A lists of saved reports which you can send in the email notification.

**(New, v10.01)** You can now send reports as a CSV file.

Chart - A list of saved charts which you can send in the email notification.

Filter - A list of saved filters which you can use to generate the output for your email notification.

Filter must be non-empty - Only send the notification if there is output from the filter

Reminders - Allow you to send additional reminder notifications to the Creator, Assignee, or any users in the Notify List, for all issues in the resulting list. The format of these reminders is as a normal notification with all details.

NOTE If a filter that contains [Current User] is selected, the filter will be omitted if the email is being sent to a user who is not in the system (where this option is N/A).

## Event Example:

To create an event that acts as a reminder (2 days before an issue is due).

1 - You should first save a filter that will return the data you are looking for, which will be used by our new event:

"Requested due date > - 2 days"

2 - Define a event that starts today and choose an hour when you would like to receive the information.

3 - Define the event to repeat daily, and choose Never as the End Task option.

4 - Under the Notification options tab:

- Check off “Send Email”
- Choose a Subject, Message and Notify List (the persons to receive the information)
- Choose the filter you defined in Step 1 under the filters option.

5 - Click the **Add Event** option.

NOTE Filter must be created separately and prior to creating event. Make sure you are running a recent version that will let you do the -2 days (relative dates feature)

## Workflow Options

An event will also let you choose to run a workflow rule. In this case, the rule can be defined in two ways , based on the Field Action attribute located under the Actions tab:

A) If the Advanced Auto Change option of the Field Action workflow attribute is set to **normal**, all issues that match the filter definition of the rule will then be updated according to the field settings set for the Auto Change feature. This allows you to modify a number of issues in a particular way.

The event runs the state definition of the rule. All matching issues will then be modified by the field settings listed under the Auto Change feature. (The separate entry option here is implied in this case, since it is not an edit).

You may want to read up on the Special Purpose flag for workflow, so that the rule is not run for every system edit.

B) If the Advanced AutoChange option of the Field Action workflow attribute is set to **Create a new item** (third option), then the event will create exactly one new issue each time it is run. The default details for this issue are defined in the AutoChange settings.

NOTE For systems with multiple tracks, the new issue is created in the track where the rule is defined.

C) If the Advanced AutoChange option of the Field Action workflow attribute is set to **Create at most X new item(s) based on “another rule”**, the system will create issues for all issues that match the state definition of the rule that is selected. The “at most” option stops this feature from overrunning your system if it is defined incorrectly.

## Backup Options

Make Backup- Automatic backups can be accomplished with this task.

The Data files option will save all ATS configuration files. This does not include any program files which are specific to the platform the system is running on, the JVM, or the fit.jar file. This is useful for moving a system to another platform.

The All files option is used as a complete backup that can be run with no installation.

NOTE \*\* Not available on hosted systems as daily backups are already kept and our team needs to control the disk space available to hosted systems.

---

## 12.3 Data Import

The Data Import page lets you import a set of issues from a CSV file. This page also lets you remove all issues from the system.

When importing data, the first row of the CSV file must define the fields, which are used in each column. Also, the fields that you import in the CSV file must match the fields that are defined in the system. If not, an error message displays, indicating the field name is not accepted. An import check screen displays prior to the import, summarizing the information being imported.

The Data Import page also lets you remove all issues from the system. The main purpose of this feature is to empty a database and start from scratch. This feature is often used to clear a system prior to importing existing issues from another system.

To import data

- 1 On the **Admin Menu** page under **Advanced**, click the **Data Import** link.
- 2 On the **Data Import** page, click **Browse** and navigate to the CSV file that you want to import.
- 3 Click **Import**.

The Data import menu has a “**Remove All Data**” feature which is useful if you want to empty your system prior to an import. This option will remove all bugs and attachments and start the IDs at 0 again. No other configuration options are removed.

To remove all data

- 1 On the **Admin Menu** page under **Advanced**, click the **Data Import** link.
- 2 On the **Data Import** page, click **Remove All Data**.  
A warning displays.
- 3 Click **OK** to remove all data or **Cancel** to maintain the data.

### Data Import

**Note:** Although you can export history entries, there is no current way to import them. The only option is to import into the first entry.

**WARNING:** This Function May Overwrite Any Existing Ticket Ids!

No file chosen

**Data Format:**  CSV

**Overwrite Existing Tickets:**

**Add Carriage Returns to all Line feeds:**   
(so multi line fields show properly from csv)

---

### Remove All Ticket Data

**WARNING:** This Function Will Remove All Tickets From Current Track!

---

### Randomize the dates of all data

**WARNING:** This Function Will Change the Dates in Your System to a Random date in the last 90 days.

Figure 34: Importing and Removing Data

## 12.4 Data Export

You can export data in CSV or XML format. For CSV format, the history is done using [H#] entries in a separate column for each historical element. The field/column name is also preceded by [H], so as not to confuse the current state information, where the titles would be the same. For XML format, the history is provided in the element for each issue.

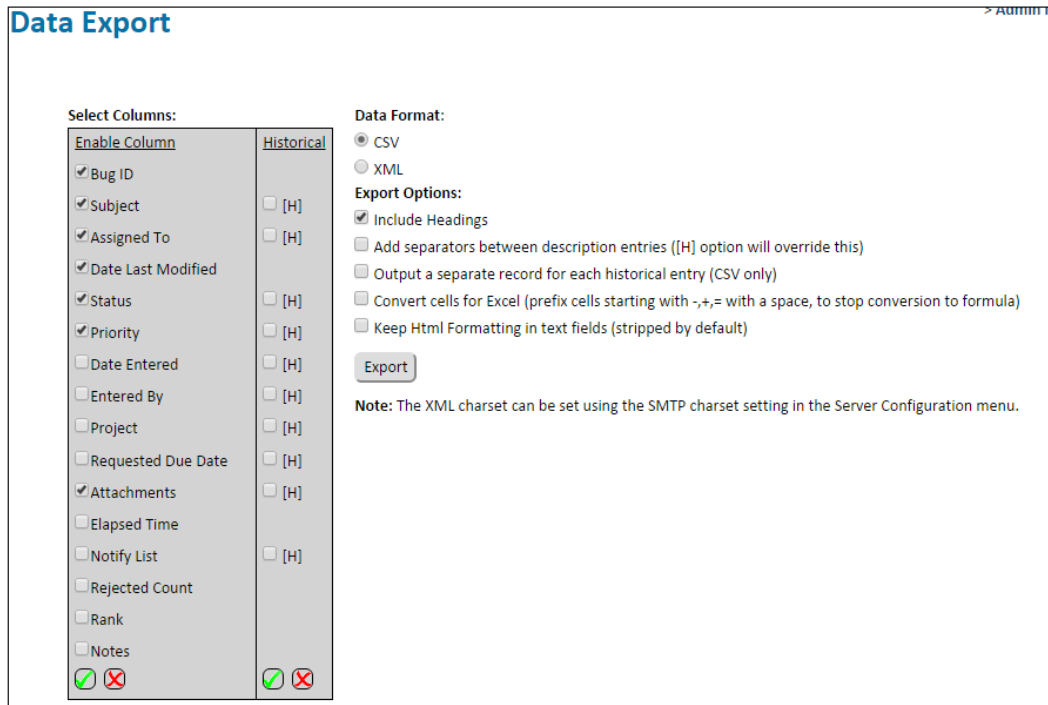
To export data, you must do the following:

- **Select Columns** — Select only the fields to export. The selection defaults to any current filters.
- **Data Format** — Select the format to which you are exporting the information (XML or CSV).
- **Include Headings** — Select this option if you want the field headings to display as the first row (for example, CSV file).
- **Include History** — Select this option if you want to summarize the history of the issues.

To export data

- 1 On the **Admin Menu** page under **Advanced**, click the **Data Export** link.
- 2 On the **Data Export** page, select the check box that corresponds to each column you want to display in the **Select Columns to Export** list.
- 3 You may also select fields with historical entry information where the [H] option exists. This will export all historical information separated by new lines.

- 4 Select one of the following **Data Format** options:
  - CSV
  - XML
- 5 Select one of the following **Export** options:
  - Include Headings
  - Add separators between description entries (shows date of entry).
- 6 Click **Export**.



**Data Export** > Admin

**Select Columns:**

Enable Column	Historical
<input checked="" type="checkbox"/> Bug ID	<input type="checkbox"/> [H]
<input checked="" type="checkbox"/> Subject	<input type="checkbox"/> [H]
<input checked="" type="checkbox"/> Assigned To	<input type="checkbox"/> [H]
<input checked="" type="checkbox"/> Date Last Modified	<input type="checkbox"/> [H]
<input checked="" type="checkbox"/> Status	<input type="checkbox"/> [H]
<input checked="" type="checkbox"/> Priority	<input type="checkbox"/> [H]
<input type="checkbox"/> Date Entered	<input type="checkbox"/> [H]
<input type="checkbox"/> Entered By	<input type="checkbox"/> [H]
<input type="checkbox"/> Project	<input type="checkbox"/> [H]
<input type="checkbox"/> Requested Due Date	<input type="checkbox"/> [H]
<input checked="" type="checkbox"/> Attachments	<input type="checkbox"/> [H]
<input type="checkbox"/> Elapsed Time	<input type="checkbox"/> [H]
<input type="checkbox"/> Notify List	<input type="checkbox"/> [H]
<input type="checkbox"/> Rejected Count	<input type="checkbox"/> [H]
<input type="checkbox"/> Rank	<input type="checkbox"/> [H]
<input type="checkbox"/> Notes	<input type="checkbox"/> [H]

**Data Format:**

CSV  
 XML

**Export Options:**

Include Headings  
 Add separators between description entries ([H] option will override this)  
 Output a separate record for each historical entry (CSV only)  
 Convert cells for Excel (prefix cells starting with -,+,= with a space, to stop conversion to formula)  
 Keep Html Formatting in text fields (stripped by default)

**Note:** The XML charset can be set using the SMTP charset setting in the Server Configuration menu.

Figure 35: Exporting Data

## 12.5 SOAP Functions

This SOAP Functions menu allows you to enable SOAP functionality. This allows communication to the system from external applications. SOAP enables the system for a command line interface, CVS integration and other external applications.

The following document is aimed at developers. It explains the WSDL/SOAP interface to ATS. Using the calls defined in this document, a developer can quickly query, create and update issues within the ATS system.

<http://www.alceatech.com/support/admin/soapAPI.html>

The following document provides details of the integration of CVS with the ATS system. This allows you to update your issues with links to all code changes.

<http://www.alceatech.com/support/admin/tools.html>

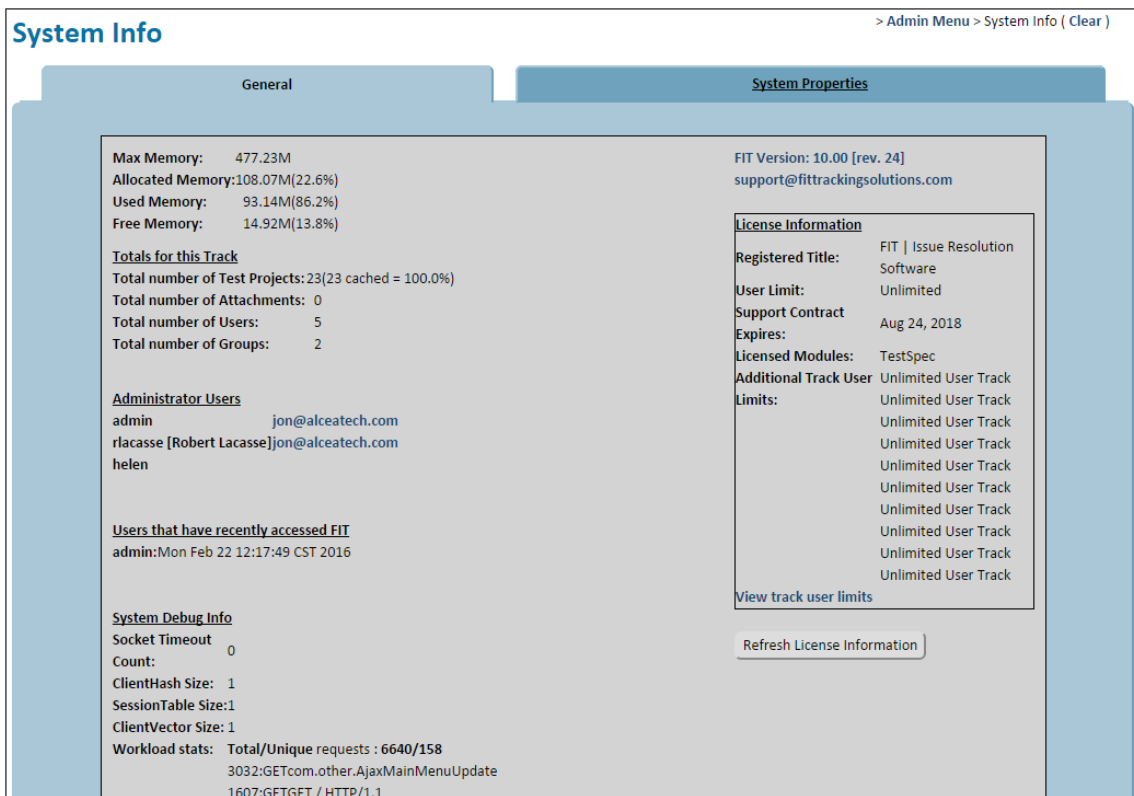
## 12.6 System Info

The System Info menu is very useful for obtaining system and server information. This includes the JVM that is running and the operating system (OS) that is being used.

To obtain system and server information

- On the **Admin Menu** page under **Advanced**, click the **System Info** link.

This provides License details and information about users who have recently used the system. The system properties are very useful for determining the specifics of the system you are running.



The screenshot shows the 'System Info' page with two tabs: 'General' and 'System Properties'. The 'General' tab is active and displays the following information:

**General**

Max Memory: 477.23M  
Allocated Memory: 108.07M (22.6%)  
Used Memory: 93.14M (86.2%)  
Free Memory: 14.92M (13.8%)

**Totals for this Track**

Total number of Test Projects: 23 (23 cached = 100.0%)  
Total number of Attachments: 0  
Total number of Users: 5  
Total number of Groups: 2

**Administrator Users**

admin jon@alceatech.com  
rlacasse [Robert Lacasse] jon@alceatech.com  
helen

**Users that have recently accessed FIT**

admin: Mon Feb 22 12:17:49 CST 2016

**System Debug Info**

Socket Timeout 0  
Count:  
ClientHash Size: 1  
SessionTable Size: 1  
ClientVector Size: 1

**Workload stats:** Total/Unique requests : 6640/158  
3032:GETcom.other.AjaxMainMenuUpdate  
1607:GETGET / HTTP/1.1

The 'System Properties' tab is also visible and displays the following information:

**System Properties**

FIT Version: 10.00 [rev. 24]  
support@fittrackingsolutions.com

**License Information**

Registered Title: FIT | Issue Resolution Software  
User Limit: Unlimited  
Support Contract Expires: Aug 24, 2018  
Licensed Modules: TestSpec  
Additional Track User Limits:  
Unlimited User Track  
Unlimited User Track  
Unlimited User Track  
Unlimited User Track  
Unlimited User Track  
Unlimited User Track  
Unlimited User Track  
Unlimited User Track  
Unlimited User Track  
Unlimited User Track  
Unlimited User Track

[View track user limits](#)

[Refresh License Information](#)

Figure 36: System Info Page

## 12.7 Exception Log

The Exception Log page lists any past debugging exceptions. This can help you or any support groups address unforeseen problems. This is also very useful information to help our support staff investigate if there are any problems with your system. The Exception Log menu only shows the latest exceptions. For a complete history, you will need to look in the except.log file on the system.

To review the exception log

- On the **Admin Menu** page under **Advanced**, click the **Exception Log** link.

The exception log displays.

## 12.8 Backup

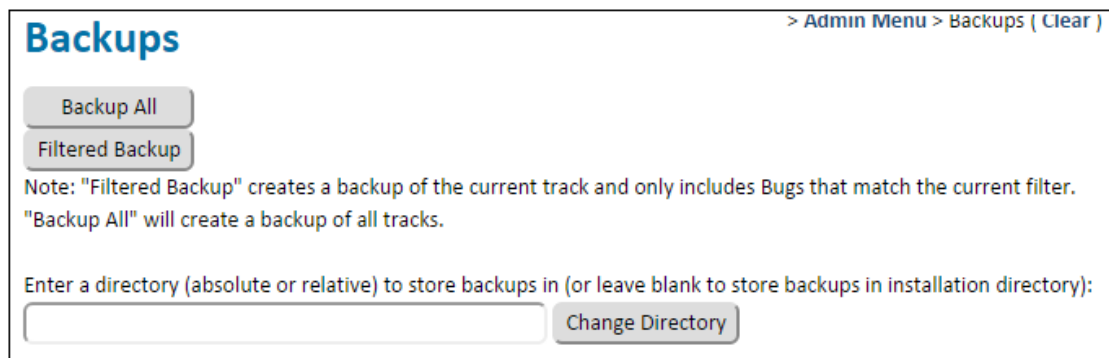
**NOTE** Not available on hosted systems as daily backups are already kept and our team needs to control the disk space available to hosted systems.

The Backup directory utility lets you create a backup directory of your current system. This process should be done consistently to prevent problems and protect yourself in case of machine failure. Any backup directory you create should always be copied and stored on a separate computer.

You have two options when creating a backup directory:

- Backup All - Creates a copy of all your data files plus any executable and installation files.
- Filtered Backup - Creates a backup of the current track and only includes Bugs that match the current filter.

**NOTE** This feature is also very useful if you need to move a system to a new computer. A backup of data files can be copied to a newly installed system, leaving you with an identical system to the one from which the backup copy was taken.



The screenshot shows a web interface titled "Backups" with a breadcrumb trail "> Admin Menu > Backups ( Clear )". There are two buttons: "Backup All" and "Filtered Backup". Below the buttons is a note: "Note: 'Filtered Backup' creates a backup of the current track and only includes Bugs that match the current filter. 'Backup All' will create a backup of all tracks." At the bottom, there is a text input field with the placeholder "Enter a directory (absolute or relative) to store backups in (or leave blank to store backups in installation directory):" and a "Change Directory" button.

Figure 37: Creating a Backup

## 12.9 Unarchive

Archived issues are stored in an archive state in case the information is again needed at some time in the future. The unarchive menu allows you to look for issues in this state and reload them into the system.

**NOTE** The Archive feature is available in the Bulk Update menu located under the Actions tab. Archiving an issue takes it out of memory by moving the bX.bug file (stored in the database) to bX.old, where it is kept in case it is ever needed again.

## 12.10 System Message

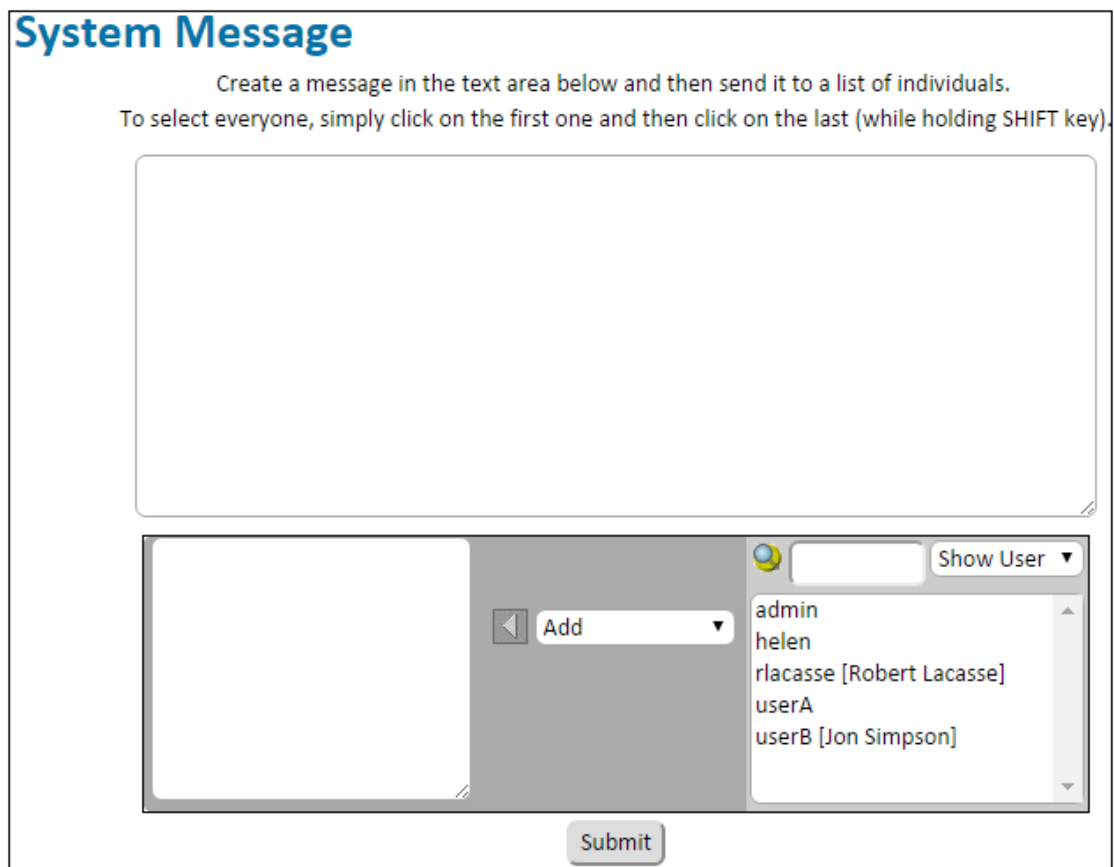
Use the System Message page to send out a global system message to all ATS users.

To specify system messages

- 1 On the **Admin Menu** page under **Advanced**, click the **System Message** link.
- 2 On the **System Message** page, type text in the message box (top).
- 3 Click the users to which you want to send the message in the user list (bottom right box).

If you want to select multiple users, press the **CTRL** key while clicking each user. If you want to select all users, press the **SHIFT** key and click the first and last user in the list.

Click Submit



The screenshot shows the 'System Message' page. At the top, the title 'System Message' is displayed in blue. Below the title, there is a text area for creating a message. Below the text area, there is a user selection interface. This interface includes a search box with a 'Show User' button, a list of users (admin, helen, rlacasse [Robert Lacasse], userA, userB [Jon Simpson]), and an 'Add' button. A 'Submit' button is located at the bottom of the page.

Figure 38: Specifying System Messages



## 12.11 Shutdown

The Shutdown page gives you the option of completing a safe server shut down.

To shut down the server

- 1 On the **Admin Menu** page under **Advanced**, click the **Shutdown** link.
- 2 On the **Shutdown** page, click **Shutdown**.

## 12.12 Track Administration

As described fully in the Integrated Systems (TRACKS) section of the main ATS documentation, the TRACK feature allows you to integrate multiple systems into one common interface and administer these independent instances, with one common configurable user base.

The term “TRACK” is used to define each specialized template that is configured in an integrated system. Each system starts out with one TRACK that acts as a tracker for a particular discipline or context, such as bug tracking, issue management, risk management or help desk ticketing.

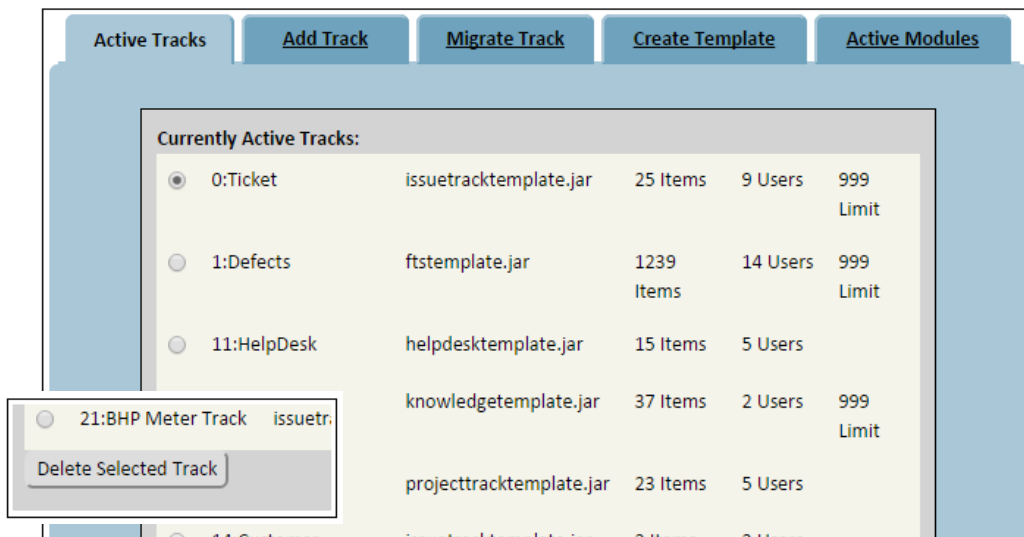
The Track Administration menu is located in the **Advanced** section of the **Admin** menu. This menu is composed of five tabs which are used to maintain tracks.

The Track Administration menu allows you to add or activate additional templates to your system. The objects of each of the templates (Tracks) are navigated separately in their own menus. If there is more than one Track configured, there is a “Switch Track” control located in the main menu, just left of the Filter drop-down. Users will have to re-login to see any TRACK changes.

Active Tracks

The Active Tracks tab allows the administrator to delete the selected Track.

Figure 39: Select and Delete Track



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## Add Track

The Add Track tab allows the administrator to add a new TRACK instance to their ATS system. This TRACK will then be available to all relevant users from the “Change Track” drop-down in the menu at the top of all system pages.

A list of Available Templates is shown at the top of the menu. Select the template that most closely matches your requirements. The resulting TRACK will of course be fully customizable, this is just an initial configuration.

The Track Title is used by the “Switch Track” drop-down on all system pages, to link to your new track from your existing tracks. This name will also be used to replace XXX in the “Create New XXX” submenu item which is available from the Actions menu for the drop-down style sheet.

Finally, you must choose the Users that you wish to pull from your existing Tracks. These are the users that you are giving access to the new TRACK

## Migrate Track

When migrating a track, choose the template configuration you would like to migrate to, and then type the name of the resulting track. This migrates the existing TRACK, it does not create a new one.

## Create Template

This tab is used for creating a template, in case you want to copy your current Track and use it as the base for a new one. This will also allow you to copy a TRACK setup to another machine.

## Active Modules

The Active Modules tab indicates additional modules that are currently active on the system. This is actually not TRACK related.

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## 13.0 Anonymous Access to ATS

You can give users anonymous access to ATS using the anonymous entry and anonymous query functions. Providing this type of access allows users to use the system without logging in, making these users anonymous to the ATS system.

To use this feature, you must first enable this functionality, which by default is disabled for security purposes. Please note that an example is set up at,

<http://www.alceatech.com/support/admin/anonymousAccess.html>

Then, you must set up common Web pages so that data can be entered (entry page) and queried (query page) outside of the ATS application. The pages you set up are completely configurable and can be as simple or complex as you like.

ATS is equipped with sample customizable templates that you can use to create your Web pages and integrate them into your Web site. These templates are available on each configuration page within the application. However, in order to customize these Web pages, you must be familiar with HTML and should start by looking at the sample pages listed for each type of access. Alcea can also provide customization services for you.

This section provides you with scenarios in which anonymous access can be used. It also provides you with general directions for enabling anonymous entry and enabling anonymous querying.

### 13.1 Scenarios in Which Anonymous Access is Used

Below are several scenarios in which anonymous access is used:

- A company wants to design their own Web entry page.
- A company releases software to 25,000 beta testers and wants to collect defects from users. This solution allows users to log defects and gives you the ability to follow up on the status of the defect.
- A company wants to create a knowledge base, allowing software users to query regular questions/issues within their system.
- A company has separate customers who want to access different projects from Web pages with distinct looks.

### 13.2 Enabling Anonymous Entry

Enabling anonymous entry can be broken into two key steps: enabling the feature and creating an issue entry page.

#### Enabling the Anonymous Entry Feature

You can enable the anonymous entry feature by accessing it from the Admin Menu page. Before you enable the feature, you must set up a Web page that users outside of the ATS system will see when reporting on an issue. For more information, see the section on “Creating an Issue Entry Page”.

To enable the anonymous entry feature

- 1 On the **Admin Menu** page under **Anonymous Access**, click the **Anonymous Entry** link.
- 2 On the **Anonymous Entry** page in the settings tab, select the **Enable Anonymous Issue Entry** check box to enable the feature.
- 3 In the box below, type the URL address corresponding to the Web page to which you want to direct users after an issue is created.
- 4 The users will see this page after submitting an issue. This Web page may read “Thank you for submitting an issue to ATS. We will respond to you within 2 days.”
- 5 Use the **Mandatory Fields** tab to select the check boxes that correspond to the mandatory information fields that a user is required to fill in, in order for ATS to accept the issue. This can also ensure that users provide you with the information you require to reproduce or address the issue.
- 6 Click **Change Settings**.

**Restrict by password** - allows you to add a custom password field for added security of information.

**Restrict by email address** - requires a user to input their email address to see issues created by them (basic screening mechanism)

NOTE An example entry page is available which you can use as a template for your own web form on your site.

The screenshot shows the 'Mandatory Fields' settings page. It includes a checkbox for 'Enable Anonymous Test Project Entry', a text field for 'After submission, redirect user to:', a text field for 'Restrict by password:', and a text field for 'Restrict by email address:'. There is also a user selection dropdown menu with an 'Add' button. The 'Advanced' section contains a note about HTTP Request headers and fields, and two more text fields: 'Use Header for Auto Population:' and 'Auto Populate Field:'. At the bottom, there is a 'Change Settings' button and a link to 'Sample Anonymous Test Project Entry Page'.

Figure 40: Enabling Anonymous Entry

---

## Creating an Issue Entry Page

You can create an issue entry page by downloading a sample template from ATS.

To create an issue entry page

- 1 On the **Admin Menu** page under **Anonymous Access**, click the **Anonymous Entry** link.
- 2 On the **Enable Anonymous Issue Entry** page, do *one* of the following:
  - Right-click the **Sample Anonymous Issue Entry Page** link and select **Save Target As**. Then navigate to a location on your computer to save the template source code locally; or
  - Click the **Sample Anonymous Issue Entry Page** link. Choose **Source** from the **View** menu of your internet browser so that you can see the actual html that makes up the page. Use this as your base.
- 3 Use the source code as the general guidelines for creating your own issue entry Web page.
- 4 Customize the Web page, including drop-down boxes and field data. Include detailed instructions to your users, that will allow them to log the information you require regarding logged issues.
- 5 Place the customized template on your Web site in a location where users can locate and use it.
- 6 Link the customized template to ATS.

NOTE Ensure a post-submission Web page is also available so that ATS can then direct users to it. Test the submission page to ensure it is behaving as you expect, and that the data collected is complete so that you can use the information to reproduce and correct defects reported.

## 13.3 Enabling Anonymous Querying

Anonymous querying is useful in a variety of situations, which includes the following scenarios:

- To allow users to query issues entered by themselves and/or others in order to reduce duplicate issues from being entered.
- To provide a knowledge base of common problems and their associated solutions.
- To track all issues by email address which is useful because user lists are constantly changing.

In order to use the anonymous querying feature, you must enable the feature and then create an issue query page as outlined in the following sections.

### Enabling the Anonymous Querying Feature

You can enable the anonymous querying feature by accessing it from the Admin Menu page. Before you enable the feature, you must set up a Web page that users outside of the ATS system will see when querying an issue.

To enable the anonymous querying feature

- 1 On the **Admin Menu** page under **Anonymous Access**, click the **Anonymous Query** link.
- 2 On the **Anonymous Query** page, select the **Enable Anonymous Issue Query** check box to enable the feature.
- 3 Select one of the following check boxes:
  - **By Email Address Only**— Forces users to enter a full email address (presumably their own) to limit the issues returned as having been entered by the email address provided.
  - **All Anonymous Issues**—Returns issues returned by anonymous users (in which the ID of the person who entered the issue is an email address).
  - **All Issues** —No restriction on the person who entered the issue will be applied to the set of issues returned.
- 4 You may select to disable any color coding.
- 5 You may choose to set a password and setup a corresponding input field named “mPassword” on your query form.
- 6 Select the project that you wish to limit the return set to. You might create a “public” or “knowledge base” project, and select this project as the only project that external users can view.
- 7 Select check boxes under the following tabs:
  - **Result Fields** — Limits the fields presented to an anonymous user when a list of issues is returned.
  - **Detail Fields** —Limits the fields available for public viewing by anonymous viewers once an issue is entered in the system.
- 8 Click **Change Settings**.

The screenshot shows the 'Anonymous Query' configuration interface. At the top, there are three tabs: 'Settings', 'Result Fields', and 'Detail Fields'. The 'Result Fields' tab is currently selected. Below the tabs, there is a form with several settings:

- Enable Anonymous Test Project Query:** A checkbox that is currently unchecked.
- By Email Address Only:** A radio button that is selected.
- All Anonymous Test Projects:** A radio button that is unselected.
- All Test Projects:** A radio button that is unselected.
- Disable Color Coding:** A checkbox that is unselected.
- Restrict by password:** A text input field.
- Also restrict to the Projects:** A dropdown menu with the following options: Project1, Project2, Project3, FAQ, and Audit.
- Use Header for Auto Filter:** A text input field.
- Auto Filter on Field:** A dropdown menu.

At the bottom left of the form, there is a link labeled 'Sample Anonymous Query Template'.

Figure 41: Enabling Anonymous Query

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## Creating an Issue Query Page

You can create an issue query page by downloading a sample template from ATS.

To create an issue query page

- 1 On the **Admin Menu** page under **Anonymous Access**, click the **Anonymous Query** link.
  - 2 On the **Anonymous Query** page, do *one* of the following:
    - Right-click the **Sample Anonymous Issue Query Page** link and select **Save Target As**. Then navigate to a location on your computer to save the template source code locally; or
    - Click the **Sample Anonymous Query Template** link. Choose **Source** from the **View** menu.
  - 3 Use the source code as the general guidelines for creating your own issue query Web page.
  - 4 Customize the Web page, including drop-down boxes and field data. Include detailed instructions to your users, that will allow them to log the information you require regarding logged issues.
  - 5 Place the customized template on your website in a location where users can locate and use it.
  - 6 Link the customized template to ATS.
- NOTE Ensure a post-submission Web page is also available so that ATS can then direct users to it. Test the submission page to ensure it is behaving as you expect, and that the data collected is complete, so that you can use the information to reproduce and correct defects reported.

---

## 14.0 Anonymous Email Retrieval

Anonymous email retrieval lets you designate a distinct POP/IMAP email account, which collects emails for your ATS system. Once set up, the ATS system continually scans this email account and sends appropriate notification to ATS users.

This section outlines how anonymous email retrieval works and explains how to set up the feature in three phases; specifying a return message, setting up mail rules, and configuring your mailbox.

These options are currently located in the bottom-right column of the Administration Options screen.

### 14.1 How Anonymous Email Retrieval Works

In order for anonymous email retrieval to work, a set of mail rules must be set up so that ATS can interpret the email (for example, the specific subject) and determine how to enter the information as an issue in the system.

The mail rule can be configured to notify the originator when his or her email is received. The notification reply email may read, "We have received your email and will respond shortly." The notification reply email also contains a ticket number (the issue ID appended with a security number) for tracking purposes.

ATS then converts the originator's email contents into an issue and applies the appropriate field properties (for example, priority, project, and assigned to) as defined by the mail rule. Attachments to the email are converted into issue attachments, and if the email was sent in HTML format, it is converted to plain text.

ATS then assigns the issue to a ATS user, and he or she receives email notification. The ATS user responds to the originator, copying a global address such as fit@alceatech.com. The ATS user includes the ticket number in the subject as well as additional processing information (for example, closing the issue). The user's response is appended to the issue history and updates are applied.

#### NOTE

- This feature can be particularly complex. Mail rules are based on regular expressions, which can be confusing at first. Therefore, we have outlined a few simple examples.
- Testing should be completed with a dedicated email address for this functionality alone.
- Testing should not be done from a personal email account because it will extract all emails sent to this account. Emails that do not match any rules are simply discarded. You may wish to create a catchall in case messages are incorrectly sent.

### 14.2 Specifying a Return Message

Begin setting up anonymous email by specifying a return message.

To specify a return message

- 1 On the **Admin Menu** page under **Anonymous Access**, click the **Return Messages** link.



- 2 On the **Return Message Administration** page, type a message name in the **Message Name** box.  
This name will appear as reference in the **Message** list at the top of the page. Ensure this name is symbolic (for example, Order Response).
- 3 Type a message in the **Message** box.  
This message will be sent to ATS users. Ensure this message is clear and concise (for example, "Thank you for your email. We will process it and reply within 2 days.")
- 4 Click **Add Return Message**.

Message Name:

Subject:

Message:

**Note:** You can add field values to the return message body or subject using SUB tags, such as <SUB bs.mUniqueProjectId> for Test Project ID and <SUB bs.mSubject> for Subject. See the Admin Menu->Field Layout->Default Field->Rank page for a full list of fields.

HTML Template:  - configured in Templates directory on main server.

Add Security

String to  - Contains Test Project ID and allows originator to update Test Project by replying to the returned message.

Subject:

Sort Order:

Alphabetically

Load Order

Figure 42: Specifying a Return Message

## 14.3 Setting Up Mail Rules for Anonymous Email Retrieval

There are some important factors to keep in mind when setting up mail rules:

- A series of mail rules must be created for anonymous email retrieval to work.
- Mail rules are processed in an order defined by the user.
- When a mail rule matches an incoming message, no additional rules are compared.
- Mail rules are based on mail headers and regular expressions. Some examples of regular expressions are listed below.

Table 9: Examples of Common Regular Expressions

Task	Regular Expression
Scan for all emails from terry@alceatech.com	From: .*terry@alceatech.com
Scan all emails for the text "Order"	Subject: .*order.*

Task	Regular Expression
Scan all emails from Terry containing the text "Order"	Subject: .*order.* AND From: .*terry@alceatech.com*
Create a "Catch-All" rule to catch everything and make sure the system does not ignore any messages	.*

To create a mail rule

- 1 On the **Admin Menu** page under **Anonymous Access**, click the **Mail Rules** link.
- 2 On the **Mail Rule Administration** page, click the **Mail Rules** link.
- 3 Type a name for the rule in the **Mail Rule Name** box.  
Ensure this name is symbolic and meaningful for easy recognition.
- 4 Type a regular expression for the mail rule in the **Regular Expression** box.  
For example, Subject: .\*order.\*
- 5 Select a return message from the **Select a Return Message** drop-down box.  
This is the message to be sent to the originator of the issue. Do not choose any return message if you do not wish to send the originator an automated response.
- 6 Select the appropriate items from the **Project, Area, Environment** and **Priority** drop-down boxes (if applicable).
- 7 Select one of the following assignment check boxes:
  - **Simple** — Assigns issues to a single individual. If you choose this option, you can only select single from the accompanying drop-down box.
  - **Complex** — Assigns issues to multiple users based on various algorithms. If you choose this option, you must select either **Round Robin** or **Load Balance** from the accompanying drop-down box. **Round Robin** corresponds to assigning the first issue to A, second to B, third to C and then repeating (fourth to A, fifth to B, sixth to C, etc.). **Load Balance** examines the number of open issues in the system and assigns the issue to the user who is least busy.
- 8 The **Notify List** allows you to make sure a userid or email address is sent a notification whenever an issue is created from this feature. This works in addition to the regular notification rules.
- 9 Click **Add Mail Rule**.

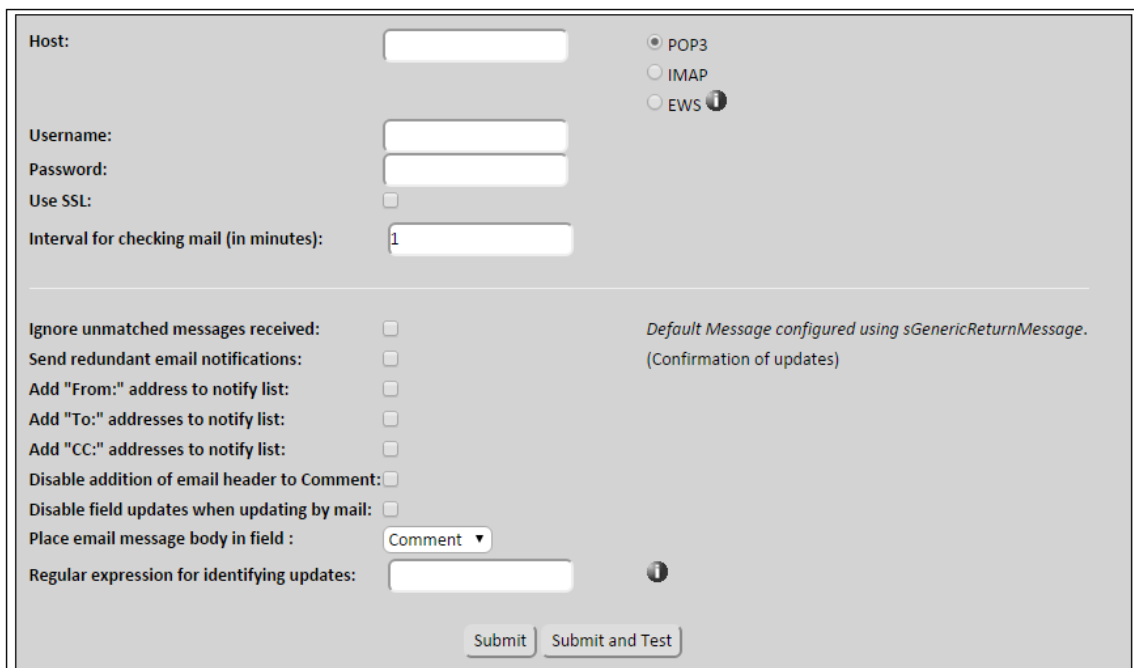
## 14.4 Configuring Your Mailbox

Before you can enable anonymous email retrieval, ATS must be configured to send email notification. For more information, see our section on Server Configuration.

If email notification is set up, you can configure your mailbox on the Mail Server Administration page. Configure a POP account, password, and server, and possible additional info (for example, time between polling). Use the Submit and Test button when you first change this configuration to ensure ATS is able to connect correctly to your mailbox.

To configure your mailbox

- 1 On the **Admin Menu** page under **Anonymous Access**, click the **Mail Server Administration** link.
- 2 On the **Mail Server Administration** page, type a *host* in the **Host** box.
- 3 Type the *user name* and *password* for the mail account on the *host* server, which will collect emails for ATS.
- 4 Select the **Ignore unmatched messages received** check box if you want to ignore unmatched messages.
- 5 The **Send Redundant Email Notifications** option will make the system send a notification email to any users who are using this feature to update issues through email.
- 6 You can choose to extract any email addresses found in the **From**, **To**, or **CC** lists of the email and have them added to the **Notify List** of the issue being created.
- 7 By default, the system will check for emails every minute.
- 8 Click **Submit** or **Submit and Test**.



The screenshot shows the Mail Server Administration configuration page. It includes the following fields and options:

- Host:** A text input field.
- Protocol:** Radio buttons for POP3 (selected), IMAP, and EWS (with an information icon).
- Username:** A text input field.
- Password:** A text input field.
- Use SSL:** A checkbox.
- Interval for checking mail (in minutes):** A text input field with the value '1'.
- Ignore unmatched messages received:** A checkbox.
- Send redundant email notifications:** A checkbox.
- Add "From:" address to notify list:** A checkbox.
- Add "To:" addresses to notify list:** A checkbox.
- Add "CC:" addresses to notify list:** A checkbox.
- Disable addition of email header to Comment:** A checkbox.
- Disable field updates when updating by mail:** A checkbox.
- Place email message body in field :** A dropdown menu with 'Comment' selected.
- Regular expression for identifying updates:** A text input field with an information icon.

At the bottom, there are two buttons: **Submit** and **Submit and Test**.

Figure 43: Performing Mail Server Administration

## 15.0 System Dashboard

A full section of the ATS User Manual discusses normal dashboard functionality so there will be very little discussion about it here. Instead, this section discusses the differences that an administrator will see and the controls that exist for the administrator to configure a common system wide dashboard.

### 15.1 Dashboard Access

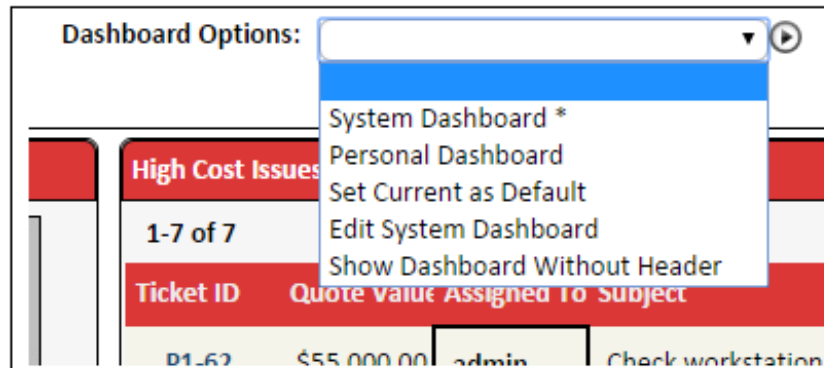
There are two options on the General tab of the System Configuration menu which are used to control access to the dashboard.

Disable Dashboard: This is a system wide option which will disable the dashboard option for all users and all tracks. Unless this is enabled, users should see a Dashboard link on the main page header.

Login to Dashboard: This option will cause all users to immediately default to the dashboard menu, when they login to the system.

### 15.2 Dashboard Controls

The dashboard displays one of two component configurations, being the System Dashboard which is configured by the administrator or the Personal Dashboard which can be configured by each individual user. As mentioned in the user manual, these two dashboard configurations can be toggled using the top two selections of the Dashboard Options, as shown below.



**Figure 44: Dashboard Options**

When a configuration is selected, the system will remember it while the user is logged in. Additionally, a user can set the current configuration as their profile default, using the third option. During normal administrator use, the system dashboard is in a read only state and all editing icons are hidden from system dashboard components. If a new component is added to the dashboard from another menu, then it is automatically added to the personal dashboard, since it is the default configuration for edits.

## 15.3 Editing the System Dashboard

System administrators have an additional dashboard option available on the bottom of the dashboard options, which allows them to edit the system dashboard for all users. When this option is selected, the dashboard selection automatically switches to the system dashboard, and a new system drop-down options menu appears to the left of the normal dashboard options.

While the System Dashboard Options are visible, the system dashboard remains the active dashboard and all components that are added to the dashboard from other sections (such as reports or the main menu lists), will be added to the system dashboard, rather than the administrators personal dashboard (normal default). Additionally, the icons for editing system dashboard components become visible and the personal dashboard can not be selected.

The screenshot shows the 'System Dashboard' interface. At the top, there are two dropdown menus: 'System Dashboard Options' and 'Dashboard Options'. The 'Dashboard Options' menu is open, showing a list of options: 'System Dashboard \*', 'Personal Dashboard', 'Set Current as Default', 'Edit System Dashboard' (highlighted in blue), and 'Show Dashboard Without Header'. Below the menus, the dashboard is divided into three main sections:

- Issue Priority Report:** A pie chart showing the distribution of issues by priority. The legend indicates: 1 - Emergency (9), 3 - Medium (8), and 2 - High (6). A 'Show Report' button is located below the chart.
- High Cost Issues:** A table displaying a list of tickets with columns for Ticket ID, Quote Value, Assigned To, Subject, and Priority. The table shows 7 tickets, with the first one being P1-62 with a quote value of \$55,000.00 assigned to 'admin'.
- Critical Defects:** A section at the bottom left, currently empty, with a 'Show Report' button.

Figure 45: Editing System Dashboard

When changes to the system dashboard are completed, the administrator simply chooses “Done Editing System Dashboard” to complete the editing process. When this is done, the system dashboard remains selected, but the personal dashboard returns to the active editable configuration.

---

## Reference: Accessing User Options

The following user options are outlined in the ATS User Manual:

User Option	General Description
Editing User Profiles	Outlines in detail how to edit user profiles.
Creating and Updating Issues	Outlines issue tracking, viewing and hiding issues, and updating issues.
Filters	Outlines the filtering functionality and explains preset and custom filters. Also explains how to edit and save filters.
Reports	Outlines how to generate quick (preset) and custom reports.
Charts	Outlines how to generate quick (preset) and custom charts.

The ATS User Manual is available at <http://www.alceatech.com/support/documentation.html>.

---

# Appendix A: Understanding Issues Management

## A Proper Resolution Process Increases Productivity

By implementing a proper Change Process, you are able to optimize workflow and maximize the productivity of your entire team. ATS achieves optimal workflow by maintaining proper ownership and keeping individuals aware of their most immediate responsibilities.

Action Items can be grouped, reviewed and summarized instantly, at any time. This includes details, instructions, attachments and anything else that is needed to comprehend or reproduce a problem that needs to be solved. In addition, documentation is available in the future for review, or to see how similar situations were resolved in the past.

## What is Issues Management?

A development team is made up of individuals with different roles, abilities and responsibilities. The success of a team depends on the ability they have to coordinate these roles and responsibilities, and effectively pass information between each member. A team will be working on a number of issues at any given time and each issue can pass through numerous states until it is successfully solved or completed. This is Change Management

Issues Management is the process of organizing and managing these states, recording the history of the issue as it passes from one state to another. Effective management provides a history of the entire process and the activities that each team member performed at a specific state. When issues are properly tracked and documented, individuals performing each step are able to solve problems much more effectively, and the entire process becomes much easier to manage.

ATS encapsulates the "Change process" and allows team members to group and compare issues with common states or elements. ATS Tracking Solutions are extremely flexible and allow complex customization for specific needs. The filter, report and chart features provide powerful tools to compare activities and track the status of issues within your group or team.

## The Change Process

A change process is the set of rules that exist to control workflow. These rules define a set of states and determine how an issue can pass from one state to another. This includes not only the path that the issue can take, but also the states that specific users are allowed to assign to an issue.

The default behaviour of ATS is to allow our customers to follow their own change process. When ATS is installed, a default process is put in place to allow the product to function

immediately. This includes a common set of states that are outlined in the diagram below. ATS Tracking Solutions can then be configured to meet any needs.

Our default process begins in the "Open" state and progresses to "Ready for Retest" and then onto "Closed". Closed issues are then hidden by default in the system. If the issue is not tested successfully, it is then sent back to the open state to start the process again. An issue can become "Deferred" at anytime and remains in that state until the user is ready to address it.

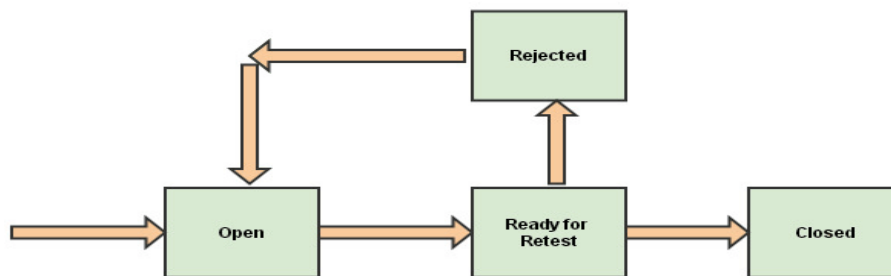


Figure 46: Simple Workflow Process

## Simple Example

A bug is often raised by a tester. A description of the bug is written, including the environment, product revision, and instruction on how to reproduce it (if possible). The bug is then assigned to the project manager to determine which department is responsible. The bug is marked as "Open", and immediately begins a history trail within the system.

The project manager is notified that a new bug has entered the system. Immediately, the manager determines who should be handling the fix for the bug. The bug is then re-assigned to the correct developer who can fix the problem.

The developer reproduces the bug using the information provided by users who defined and directed the bug to him/her. Then the bug is fixed and its status changes to "Ready for Retest". The developer passes the fixed bug to the testing or QA department.

The tester is notified about being assigned a bug, and tests the bug to see if the newest fix is working properly. If it passes, the tester moves the bug to "Closed", or marks it as "Rejected", if it still does not pass the testing phase. A "Rejected" bug will go back to the developer, who must attempt to fix it again. At any time during this bug fix, the exact status and history of the fix are available to everyone in the system. This information is also easily available for creating reports of outstanding issues. At any stage in this process, there is a full history trail and accountability record as illustrated below (this is also the actual email notification format that is passed to each individual as they are incrementally assigned the issue):



[Edit Bug](#)

Info			
<b>Bug Id:</b>	<input type="text" value="2"/>	<b>Elapsed Time:</b>	<input type="text" value="0 day(s)"/>
<b>Entered By:</b>	<input type="text" value="peter"/>	<b>Date Entered:</b>	<input type="text" value="Oct 20 2003"/>
<b>Last Modified By:</b>	<input type="text" value="Tester"/>	<b>Date Modified:</b>	<input type="text" value="Oct 20 2003"/>
Details			
<b>Subject:</b>	<input type="text" value="Visual glitch on screenshot"/>		
<b>Assigned To:</b>	<input type="text" value="Manager"/>	<b>Project:</b>	<input type="text" value="P1"/>
<b>Status:</b>	<input type="text" value="Closed"/>	<b>Priority:</b>	<input type="text" value="3 - Medium"/>
<b>Notify List:</b>	<input type="text"/>		
<b>Attachments:</b>	Oct 20 2003 <a href="#">SPRTA090.JPG [Save]</a> (138K) [peter] This is what it looks like when I see it		

History Trail - Oldest First				<a href="#">Quick</a>
<b>Assigned To:</b>	<input type="text" value="Manager"/>	<b>Entered By:</b>	<input type="text" value="peter"/>	
<b>Status:</b>	<input type="text" value="Open"/>	<b>Date Entered:</b>	<input type="text" value="Mon Oct 20 12:04:41 EDT 2003"/>	
<b>Description:</b>	I have found a new bug in the system and it seems to be in your teams area. See attached screenshot. <B>Note:</B> attached SPRTA090.JPG <a href="#">View HTML</a> <a href="#">View Plain</a>			
<b>Assigned To:</b>	<input type="text" value="Developer"/>	<b>Entered By:</b>	<input type="text" value="Manager"/>	
<b>Status:</b>	<input type="text" value="Open"/>	<b>Date Entered:</b>	<input type="text" value="Mon Oct 20 12:06:03 EDT 2003"/>	
<b>Description:</b>	I have Assigned this bug to Developer			
<b>Assigned To:</b>	<input type="text" value="Tester"/>	<b>Entered By:</b>	<input type="text" value="Developer"/>	
<b>Status:</b>	<input type="text" value="Ready For Retest"/>	<b>Date Entered:</b>	<input type="text" value="Mon Oct 20 12:06:49 EDT 2003"/>	
<b>Description:</b>	I have reproduced the error and fixed it. Please take care of testing it			
<b>Assigned To:</b>	<input type="text" value="Manager"/>	<b>Entered By:</b>	<input type="text" value="Tester"/>	
<b>Status:</b>	<input type="text" value="Closed"/>	<b>Date Entered:</b>	<input type="text" value="Mon Oct 20 12:07:22 EDT 2003"/>	
<b>Description:</b>	I am satisfied and decided to close the issue			

[Edit Bug](#)

Figure 47: Process example

---

## Advanced Process Options

As customers have made requests, we have begun to add customizations to allow customers to restrict the process in a few ways. The following configurable strings have been added:

sDefault Status allows you to set the default status on the New Bug screen. This is useful if you need to change the set of states in your change process.

sRestrict Status is used to control the actions of some users. This string contains a status list (separated by commas), which cannot be set by any users, with the exception of an admin user or the creator of the issue. All other users will not see these status types as valid options for status on the modify pages. The default for this string is "Closed", and the option is turned on in the Server Configuration menu.

You are free to structure the states of your process in any way that you like. The states can be changed on the Admin -> Default Fields menu under the Status heading.

---

## Appendix B: SOAP Functions

This reference section is aimed at developers. It explains the WSDL/SOAP interface to ATS. Using the calls defined in this reference section, a developer can quickly query, create, and update issues within the ATS system.

This reference section assumes some familiarity with XML and SOAP. You should also be somewhat familiar with ATS and the data stored within the application.

This reference section outlines the following:

- Setting up Perl/SOAP-Lite on Windows
- Configuring ATS to enable the SOAP interface
- Explains WSDL
- General conventions

### Setting Up Perl/SOAP-Lite on Windows

- Download and install Perl from ActiveState.
- Download and install nmake (make utility) from Microsoft.
- Download and install SOAPLite (there is also OAP documentation here).
- Download and install URI Perl module. Other perl modules are recommended on the SOAPLite page, but no other modules are required for communicating with ATS.

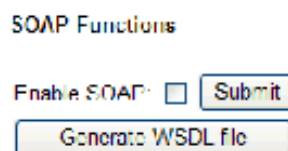
### Configuring ATS to Enable the SOAP Interface

Configure ATS to enable the SOAP interface by navigating to the SOAP Functions page.

To configure ATS to enable the SOAP interface

- 1 On the **Admin Menu** page under **Advanced**, click the **SOAP Functions** link.
- 2 On the **SOAP Functions** page, select the **Enable SOAP** check box.
- 3 Click **Submit**.

Figure 48: Enabling the SOAP Interface



The screenshot shows a web interface for configuring SOAP functions. At the top, the text "SOAP Functions" is displayed in a blue font. Below this, there is a label "Enable SOAP:" followed by an unchecked checkbox and a "Submit" button. Below the checkbox and button, there is a "Generate WSDL file" button.

---

## WSDL Explained

WSDL stands for Web Service Description Language, and it defines all of the Web service requests and responses that can be made to ATS. There are four basic operations that can be performed through the Web interface as outlined in the table below.

Table 10: WSDL Operations

Request Name	Description	Read/Write
getId	This call returns the full issue detail for a single specific issue. It is the equivalent of viewing issue details through the Web interface.	Read-Only
getIssueList	This call allows the caller to define parameters, through which a set of issues will be returned. It is the equivalent of the filter screen in the Web interface.	Read-Only
newIssue	Create a new issue within your system using this call.	Write
updateIssue	Update an existing issue within your system using this call.	Write

Before executing any examples in this reference section, or using any SOAP functionality, you must configure SOAP within ATS. For details, see the section for “Configuring ATS to Enable the SOAP Interface”

ATS will dynamically generate a custom WSDL file based on how your instance of ATS is configured. For example, if you have custom fields, they will be added to your WSDL file.

All of the examples in this reference section assume the stock ATS installation. You can view the WSDL file by going to **<http://localhost:10000/ATS.wsdl>**. This assumes you are using the same computer that ATS is running on and that you are replacing localhost with the name of the computer running ATS.

## General Conventions

Field names within ATS are prefixed with “m”, and “camelcase” is used for field naming conventions (capitalize the beginning of each word). Example: the Id field is mId, the Date Last Modified field is mDateLastModified.

All of the examples provided are using Perl and SOAP::Lite (a Perl module). We are using this for our examples because Perl and SOAP::Lite are available for almost all operating systems, and they are free. While we are using Perl, most modern programming languages have Web service modules/libraries that should work fine with ATS. Customers with any questions about compatibility or wishing a list of sample platforms can email [fit@alceatech.com](mailto:fit@alceatech.com) for additional information.

### getId

#### Description

This call returns the full issue detail for a single specific issue. It is the equivalent of viewing issue details through the Web interface.

---

## Sample Perl Code

The following Perl code retrieves the details of issues from the system. We turn full debug on, to display both the raw data that we send to FBT, and display the raw data received in response.

```
#!/usr/bin/perl
use SOAP::Lite;
print SOAP::Lite
  ->service("http://localhost:10000/ATS.wsdl")
  -> on_debug(sub{print@_})
  -> getId(SOAP::Data->name("Id" => "10"));
```

### Input

We can see that the following SOAP message is sent to ATS:

```
POST http://localhost:10000
Accept: text/xml
Accept: multipart/*
Content-Length: 448
Content-Type: text/xml; charset=utf-8
SOAPAction: "http://localhost:10000/getId"

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/1999/XMLSchema">
<SOAP-ENV:Body>
  <getId xmlns="">
    <mId xsi:type="xsd:int">10</mId>
  </getId>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

### Output

The details of the issues are returned. The contents are contained in an `issueStruct` element, which in turn contains all of the current (non-history) fields, plus `issueEntry` structures for each update to the issue. Each `issueEntry` contains the values that were provided in those updates.

### Sample output from the Perl call:

```
HTTP/1.1 200 OK
Content-Length: 1919
Content-Type: text/xml; charset=utf-8
Client-Date: Tue, 21 Oct 2003 02:38:11 GMT
Client-Peer: 127.0.0.1:10000
Client-Response-Num: 1

<?xml version="1.0"?>

<SOAP-ENV:Envelope
  xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/1999/XMLSchema"
  SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
<SOAP-ENV:Body>
  <issueStruct>
    <mId>10</mId>
    <mSubject>performance @ Aktiom ... Server timing ...</mSubject>
    <mDateEntered>Tue Sep 16 00:13:23 EDT 2003</mDateEntered>
    <mCurrentStatus>Closed</mCurrentStatus>
    <mCurrentAssignedTo>cjustus</mCurrentAssignedTo>
    <mLastModifiedBy>cjustus</mLastModifiedBy>
    <mDateLastModified>Mon Sep 22 21:55:12 EDT 2003</mDateLastModified>
    <mEnteredBy>cjustus</mEnteredBy>
    <mPriority>3</mPriority>
    <mProject>Aktiom</mProject>
```

```

<mArea>area</mArea>
<mVersion></mVersion>
<mEnvironment></mEnvironment>
<mParent>0</mParent>
<mRequestedDueDate>null</mRequestedDueDate>
<mActualCompletionDate>null</mActualCompletionDate>
<mEstimatedHours>0.0</mEstimatedHours>
<mActualHours>0.0</mActualHours>
<mPercentComplete>0.0</mPercentComplete>
<issueHistory>
  <issueEntry>
    <mAssignedTo>cjustus</mAssignedTo>
    <mWho>cjustus</mWho>
    <mStatus>Open</mStatus>
    <mWhen>Tue Sep 16 00:13:23 EDT 2003</mWhen>
    <mDescription></mDescription>
  </issueEntry>
  <issueEntry>
    <mAssignedTo>cjustus</mAssignedTo>
    <mWho>cjustus</mWho>
    <mStatus>Closed</mStatus>
    <mWhen>Mon Sep 22 21:55:12 EDT 2003</mWhen>
    <mDescription>istop issue...</mDescription>
  </issueEntry>
</issueHistory>
</issueStruct>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

Returned Issue 10 - performance @ Aktiom ... Server timing ...

## Example 2:

The Perl SOAP API is constantly changing. The most recent working example used the following script:

```

#!/usr/bin/perl
use SOAP::Lite; // +trace => 'debug';

$elem = SOAP::Data->name("filterStructIn" => \SOAP::Data->value(
    SOAP::Data->name("mId" => "10"),
    SOAP::Data->name("mContextId" => "7")));

$elem ->type("tns:FilterStructIn");

$response = SOAP::Lite
-> uri('http://ticketing.xxx.com/Fit.wSDL')
-> proxy('http://ticketing.xxx.com/Fit.wSDL')
-> getld($elem);

print $elem;
$bug = $response->valueof("//getldResponse/bugStruct");
print "\nReturned Issue " . $bug->{mUniqueProjectId};
print " - " . $bug->{mSubject};

```

## getBugList

### Description

This function is the SOAP call equivalent to running a filter. Criteria submitted via the SOAP call will return a filtered list of issues.

### Sample Perl Code

The following Perl code shows how to enter filter criteria with SOAP. Take note of the method in which custom fields are entered. The custom field ID numbers can be found on the Admin Menu->Field Layout->Custom Field page.

```
#!/usr/bin/perl
use SOAP::Lite +trace => 'debug';
$elem = SOAP::Data->name("filterStructIn" => \SOAP::Data->value(
    SOAP::Data->name("mPriority" => "1"),
    SOAP::Data->name("mPriorityOp" => "="),
    SOAP::Data->name("mPriorityAndOr" => "OR"),
    SOAP::Data->name("mPriority2" => "2"),
    SOAP::Data->name("mPriority2Op" => "="),
    SOAP::Data->name("filterCustomField" =>
        \SOAP::Data->value(SOAP::Data->name("Id" => "5"),
            SOAP::Data->name("Op" => ">="),
            SOAP::Data->name("Value" => "2005/05/5"),
            SOAP::Data->name("AndOr" => "and"),
            SOAP::Data->name("Op2" => "<="),
            SOAP::Data->name("Value2" => "2005/05/15"))
    ))
);
$elem->type("tns:FilterStructIn");

my $soap = SOAP::Lite ->uri("http://localhost:10000/") ->proxy("http://localhost:10000/ATS.wsdl");
$response = $soap->call("getBugList" => $elem);

for my $bug ($response->valueof("//getBugListResponse/bugStructList/bugStruct")) {
    print "\nReturned Issue " . $bug->{mId};
    print " - " . $bug->{mSubject};
}
}
```

## Input

We can see that the following SOAP message is sent to ATS:

```
POST http://localhost:10000
Accept: text/xml
Accept: multipart/*
Content-Length: 766
Content-Type: text/xml; charset=utf-8
SOAPAction: "http://localhost:10000/newBug"

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding"
SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope"
xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/1999/XMLSchema">
<SOAP-ENV:Body>
<getBugList xmlns="">
<mPriority xsi:type="xsd:int">1</mPriority>
<mPriorityOp xsi:type="xsd:string">=</mPriorityOp>
<mPriorityAndOr xsi:type="xsd:string">OR</mPriorityAndOr>
<mPriority2 xsi:type="xsd:int">2</mPriority2>
<mPriority2Op xsi:type="xsd:string">=</mPriority2Op>
<filterCustomFields>
<filterCustomField>
<Id xsi:type="xsd:int">5</Id>
<Op xsi:type="xsd:string">>=</Op>
<Value xsi:type="xsd:string">2005/05/5</Value>
<AndOr xsi:type="xsd:string">and</AndOr>
<Op2 xsi:type="xsd:string"><=</Op2>
<Value2 xsi:type="xsd:string">2005/05/15</Value2>
</filterCustomField>
</filterCustomFields>
</getBugList>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

---

## Output

A list of filtered issues are returned. The results are a set of bugStruct elements contained in a bugList element.

Sample output from the Perl call:

```
HTTP/1.1 200 OK
Content-Length: 1919
Content-Type: text/xml; charset=utf-8
Client-Date: Tue, 21 Oct 2003 02:38:11 GMT
Client-Peer: 127.0.0.1:10000
Client-Response-Num: 1

<?xml version="1.0"?>

<SOAP-ENV:Envelope
xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/1999/XMLSchema"
SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
<SOAP-ENV:Body>
<getBugListResponse>
<bugList>
<bugStruct>
<mId>13</mId>
<mSubject>test</mSubject>
<mCurrentAssignedTo>birdman</mCurrentAssignedTo>
<mDateLastModified>Fri May 13 16:10:00 EDT 2005</mDateLastModified>
<mCurrentStatus>Open</mCurrentStatus>
<mPriority>1</mPriority>
<mDateEntered>Fri May 13 16:10:00 EDT 2005</mDateEntered>
<mEnteredBy>jsimpson</mEnteredBy>
<mProject>SYSTEM</mProject>
<mArea></mArea>
<mVersion></mVersion>
<mEnvironment></mEnvironment>
<mRequestedDueDate></mRequestedDueDate>
<mActualCompletionDate></mActualCompletionDate>
<mEstimatedHours>0.0</mEstimatedHours>
<mActualHours>0.0</mActualHours>
<mPercentComplete>0.0</mPercentComplete>
<mParent>0</mParent>
<mLastModifiedBy>jsimpson</mLastModifiedBy>
<mElapsedTime>0</mElapsedTime>
<mNotifyList></mNotifyList>
<mRejectedCount>0</mRejectedCount>
<mRankCache>0.0</mRankCache>
<bugHistory>
<bugEntry>
<mAssignedTo>birdman</mAssignedTo>
<mWho>jsimpson</mWho>
<mStatus>Open</mStatus>
<mWhen>Fri May 13 16:10:00 EDT 2005</mWhen>
<mDescription>Test issue</mDescription>
</bugEntry>
</bugHistory>
</bugStruct>
</bugList>
</getBugListResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```



---

Returned Issue 13 - test

## newBug

### Description

This function mirrors the functionality of the New Issue screen. A new issue will be created using the data from any field values submitted via the SOAP call. The new issue's ID is returned.

### Sample Perl Code

The following Perl code shows how to enter a new issue with SOAP. Fields that are not included will be set to empty in the newly created issue. Take note of the method in which custom fields are entered. The custom field ID numbers can be found on the Admin Menu->Field Layout->Custom Field page.

```
#!/usr/bin/perl
use SOAP::Lite +trace => 'debug';

$elem = SOAP::Data->name("bugStruct" => \SOAP::Data->value(
    SOAP::Data->name("mSubject" => "Testing SOAP: newBug call"),

    SOAP::Data->name("mDescription" => "This will enter a new issue into the system."),
    SOAP::Data->name("mAssignedTo" => "admin"),
    SOAP::Data->name("customField" =>
        \SOAP::Data->value(SOAP::Data->name("Id" => "3"),
            SOAP::Data->name("Value" => "SOAP UPDATE")),
    ),
    SOAP::Data->name("customField" =>
        \SOAP::Data->value(SOAP::Data->name("Id" => "4"),
            SOAP::Data->name("Value" => "SOAP UPDATE")),
    ))
);
$elem->type("tns:BugStruct");

my $soap = SOAP::Lite ->uri("http://localhost:10000/") ->proxy("http://localhost:10000/ATS.wsdl");
$response = $soap->call("newBug" => $elem,
    SOAP::Data->name("loginid" => "jsimpson"),
    SOAP::Data->name("password" => "myPassword"));

print $response->valueof("//newBugResponse/message");
```

### Input

We can see that the following SOAP message is sent to ATS:

```
POST http://localhost:10000
Accept: text/xml
Accept: multipart/*
Content-Length: 766
Content-Type: text/xml; charset=utf-8
SOAPAction: "http://localhost:10000/newBug"

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
```

```
SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/1999/XMLSchema">
<SOAP-ENV:Body>
<newBug xmlns="">
<mSubject xsi:type="xsd:string">Testing SOAP: newBug call</mSubject>
<mDescription xsi:type="xsd:string">
This will enter a new issue into the system.</mDescription>
<mAssignedTo xsi:type="xsd:string">admin</mAssignedTo>
<customFields>
<customField>
<id xsi:type="xsd:int">3</id>
<Value xsi:type="xsd:string">SOAP UPDATE</Value>
</customField>
<customField>
<id xsi:type="xsd:int">4</id>
<Value xsi:type="xsd:string">SOAP UPDATE</Value>
</customField>
</customFields>
</newBug>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

## Output

The new issue's ID is returned in a message element.

Sample output from the Perl call:

```
HTTP/1.1 200 OK
Content-Length: 1919
Content-Type: text/xml; charset=utf-8
Client-Date: Tue, 21 Oct 2003 02:38:11 GMT
Client-Peer: 127.0.0.1:10000
Client-Response-Num: 1

<?xml version="1.0"?>

<SOAP-ENV:Envelope
xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/1999/XMLSchema"
SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
<SOAP-ENV:Body>
<newBugResponse>
<message>Issue 13 has been created.</message>
</newBugResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Issue 13 has been created.

## updateBug

Description

---

This function works the same as the newBug call. In addition to other fields, the mId field is set to the ID of the issue that will be updated. Fields that are not set in the SOAP call will remain unchanged.

## SOAP Example using Python

```
#!/usr/bin/python
# Imports
from suds import WebFault
from suds.client import Client
from suds.xsd.doctor import ImportDoctor, Import

# Logging Options
import logging
#logging.basicConfig(level=logging.INFO)
#logging.getLogger('suds.client').setLevel(logging.DEBUG)
#logging.getLogger('suds.wsdl').setLevel(logging.DEBUG)

# Setup variables
wsdl_url = "http://localhost:10000/ATS.wsdl"
imp = Import('http://schemas.xmlsoap.org/soap/encoding/')
dr = ImportDoctor(imp)

fituser = "admin"
fitpass = "in"
mContextId = 0

# URL Detail
client = Client(wsdl_url, cache=None, doctor=dr)

#print client
#Get Specific Ticket
#mId = 'IS10791'
#print client.service.getId(mId,fituser,fitpass,mContextId)

# Build CustomFieldFilter
filterOne = {'Id': 13, 'Value': 'Build'}
filterCustomFields = [filterOne]

# Build BugListFilter
#filterStructIn = {'mAssignedTo': 'access', 'filterCustomField': filterOne, 'mContextId': mContextId}
filterStructIn = {'mAssignedTo': 'access', 'filterCustomFields': filterCustomFields, 'mContextId': mContextId}
print client.service.getBugList(filterStructIn,fituser,fitpass)
```

---

## Appendix C: Metrics

### OGNL

ATS has always offered a Rank field which allows the administrator to configure Rank a rank formula to compute a calculated value for each issue. This value can be based on the states of issues in combination with values of multiple fields.

The most common use for the Rank field is to create an escalation order for issues based on a combination of:

- A) the priority of the issue, and
- B) how long the issue has been sitting open

This way, a quick report can be made using the Rank field to order the issues according to status.

In addition, issues which have been sitting more than X days will become more important.

The value for Rank is calculated using an OGNL formula, which allows us to use the values for fields of each bug structure, or methods defined in the BugStruct class, to make a custom calculation. For example, the default Rank formula:

```
(100-mPriority*10)+getElapsedTime()
```

This formula calculates an escalation value, where any issue that is open for more than 10 days will escalate to a rank of a new issue in the next Priority scale.

Rank is very useful but it is limited in that it only allows one field for calculations.

## How to Add Formulas to Custom User Fields

A common requirement from customers is to get metrics from the system, using the history information that is recorded in issues. For instance:

- Finding the duration of time that an issue was in a specific status.

- Finding the time between two different status states

The best way to make calculations and achieve metrics is to create a custom field to define the information you are looking for (which can be hidden if desired). The contents of this field can be accessed in issue details and ultimately in filters and/or reports. The following classes are useful for advanced user defined fields:

- FormulaDateCustomUserField** - end result is a date value

- FormulaCustomUserField** - end result is a numeric value

**FormulaIntCustomUserField** - end result is an integer value

**FormulaStringCustomUserField** - end result is a text value

These Formula types allow you to use the OGNL functionality as a formula for a readonly calculated field type which you can use for reports, filters or other calculations.

As an example, one customer recently inquired about how to include the date that an issue was closed. Unfortunately, the Closed Date is not an existing default field in the system. However, the data does exist for the calculation of the ElapsedTime (time until closed) field.

The new FormulaDateCustomUserField allows us to define a new field called "CLOSED DATE" which will simply take the value of the mClosedDate field, which is in the system. The formula in this case is very simple, but it shows how useful the field can be.

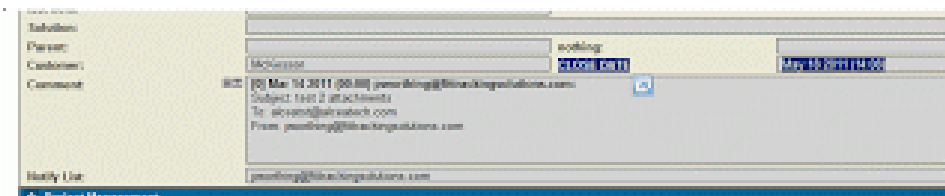
The following images show the configuration option:

Figure 49: Creating a FormulaDateCustomUserField for Date Closed



and the resulting details for a given issue would look something like the following:

Figure 50: ReadOnly CustomUserField



A few examples are listed below and the BugStruct fields are listed as part of the Rank documentation but we do realize that OGNL can be difficult. You are free to discuss with our support staff if you are not sure how to proceed with something.

## Additional routines for OGNL

---

To use any of the formula classes, you must provide an OGNL formula (see Rank documentation), which is used to retrieve data from the issue history. This formula allows you to access values and methods for the internal BugStruct class for each issue. Some valuable methods for metrics include:

```
// finds the date that the issue was changed FROM a value for a specified field
// or (last=true) the last time it changed FROM that value
dateChangedFrom(int fieldId, String value1, boolean last)
```

```
// finds the date that the issue was changed to a value for a specified field
// if value2 is not null, it finds when the issue changed from value1 to value2.
// or (last=true) the last time it changed to that value
// if value1 is null, this will just return when the field was changed (to any value)
dateChangedTo(int fieldId, String value1, String value2, boolean last)
dateLastChangedTo(int fieldId, String value1, String value2)
```

```
// find the time taken for an issue to move from one value to another
// fieldId : the id of the field holding the desired value. (Reference ids in custom field setup)
// Note: custom fields are > 100, default fields <100)
// format may take the form of "m", "h", or "d" for (months, hours, or days)
elapsedTimeBetweenStates(int fieldId, String value1, String value2, String format)
elapsedTimeBetweenDates(Date d1, Date d2, String format)
```

Here are a few examples:

**Example 1:** Time taken to move from status A to status B (in days)

- Find the id (SID) of the field that holds the status you are interested in.
- Define a custom field called TimeTakenAB using the "custom" advanced field option as follows:

```
Custom Class : com.other.FormulaIntCustomUserField
Custom Class Formula: elapsedTimeBetweenStates(SID, "A", "B", "d")
```

The TimeTakenAB field should now show the number of days that each issue took to move from state "A" to state "B". A value of 0 is given for issues where the states were not found.

---

**Example 2:** Which issues had a field changed to XYZ during the last week.

- Find the id (SID) of the field that holds the values you are interested in.
- Define a custom field called DateChangedToXYZ using the "custom" advanced field option as follows:

Custom Class: com.other.FormulaDateCustomUserField

Custom Class Formula: dateChangedTo(SID, XYZ, null, true)

(alternatively) dateLastChangedTo(SID, XYZ, null)

- The DateChangedToXYZ field should then display the desired date.

**Example 3:** How many issues were fixed in the last 4 Weeks

- Find the id (SID) of the status field is 20.
- Define a custom field called DateFixed using the "custom" advanced field option as follows:

Custom Class : com.other.FormulaDateCustomUserField

Custom Class formula : dateChangedTo(5,"Fixed")

- Create a filter that uses a relative date ( ie: DateFixed <= -4 weeks) on this new field. The results should only include the issues you are looking for and the field is available in the details section also.

# Appendix D: Interface Customizations

## Skin Configurations

The most obvious customization for Fit is the skin and corresponding skin color, which is configured with CSS settings in the associated stylesheet.

ATS has a number of different skins which have been created to help customers integrate the tool with their existing systems. In addition, any of these skins can be further customized by creating a custom stylesheet, which can control the formatting of HTML items on the page. If you change our skin from the server configuration menu, you must make sure to match the skin choice with a corresponding stylesheet. A mismatch will have unknown consequences to the display of the tool.

If you would like to sample the skins, the following tools will show a list of all the available skins:

[http://machine\[:port\]?...page=com.other.SkinTestAll](http://machine[:port]?...page=com.other.SkinTestAll)

[http://machine\[:port\]?...page=com.other.ShowSkins](http://machine[:port]?...page=com.other.ShowSkins)

The following will also show the different colors available on the latest blackcurve skin:

[http://machine\[:port\]?...page=com.other.Skin11TestAll](http://machine[:port]?...page=com.other.Skin11TestAll)

## Adding a Create Child Button

The parent field allows you to specify the ID of another issue as a parent. This then causes the specified parent issue to show the current issue in a child list for the parent. A number of customers have requested a simple way to create a child issue directly from the parent, thereby handing the id of the parent directly to the New Issue menu.

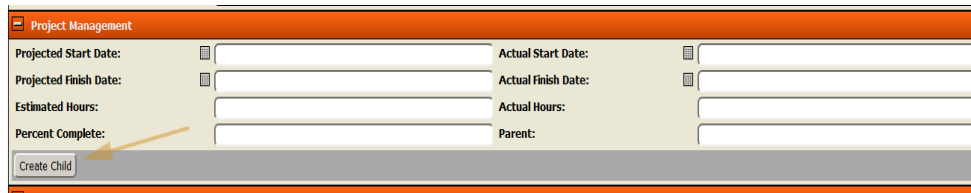


Figure 51: Adding a Create Child Button

This Create Child configuration is very useful and is used by default in the ATS Project template. This can be accomplished simply, by creating a blank field, using field order and then customizing the html for that field to:

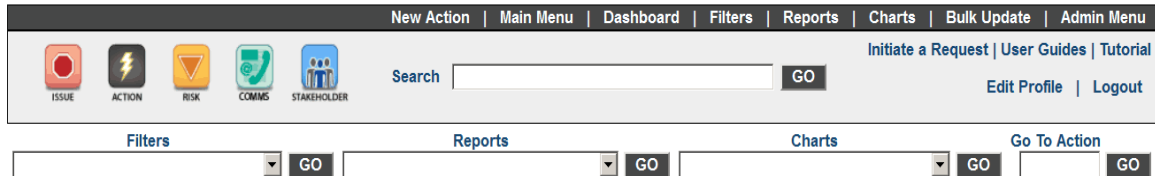
```
<table id=projectButtonBar width=100% style="background-color: darkgray; display: none"><tr><td><input type=button  
onclick="location.href='<SUB_URLADD>&page=com.other.NewBug&bs.mParent=<SUB bs.mUniqueProjectId>'"  
value="Create Child"></td></tr></table>  
<SCRIPT LANGUAGE='Javascript'>  
function showProjectButtons()  
{  
  var page = "<SUB page>";  
  var readonly = "<SUB READONLY>";  
  if (readonly != "1" && (page == "com.other.ModifyBug" || page == "com.other.ViewBug")) {  
    document.getElementById("projectButtonBar").style.display="";  
  }  
}  
showProjectButtons();
```



</SCRIPT>

## Configuring Track Icons

In the drop-down, hypertext and wideblue skins also allow you to configure your own switch track control which allows you to setup an icon/button control such as this:



To achieve this, the administrator must set the following in server.cfg (to have the system show links instead of a drop-down):

**contextStyle=links**

You can also set the following to create your own (as above):

contextStyle=custom

If you do this, there is a configurable string (**sCustomContextStyle**) which will control what is displayed instead. You will need to configure that in each track, after uploading the icons. A simple format for each icon could be:

```
<a class=hidden xstyle='padding: 5px;<SUB CONTEXT0_DECORATION>' href='<SUB URLADDWITHOUTCONTEXT>&page=com.other.MainMenu&CONTEXT=0'></a>
```

## Incorporating Other Tools

One of the major advantages of ATS is the simplicity of configuring the look of the tool. The most common way to achieve this is by using the sHead or sFoot custom strings to add additional functionality, in the form of HTML and Javascript.

**Example 1:** add a financial chart of their company to the header of the tool, by configuring the sHead string to something like:

```

```

which would give you a simple header like this:



Figure 52: Adding a Stock Ticker

When creating a custom area within the issue details, the best method is to use the Field Order menu to create a new section. Then create a blank field in this section to configure your desired output.

You can then configure HTML for a blank field and configure the field accordingly.

**Example 2:** add a map section to display the location of an address for an issue

Google maps has an API which allows you to access mapping functionality. If we create a blank field in the field order menu, we can then use the “Edit HTML” option to add content to the area where that blank field is located. For example, if we add the following:

```

<script type="text/javascript"
  src="https://maps.googleapis.com/maps/api/
  js?key=AlzaSyC_pHnmCHlVwBIGVJqcrbkaevOLs_DcRPI&sensor=false">
</script>
<script>
function initialize() {
var address = fieldVal("field1"); // take the address from field id "field1"
address = address.replace(/<br>/g, ",");
address = address.replace(/\ /g, "");
address = address.replace(/ /g, "+");

var geocodeAPI = "https://maps.googleapis.com/maps/api/geocode/json?address="+address+"&sensor=false";
jQuery.getJSON(geocodeAPI , function(data) {
  var items = [];
  jQuery.each(data, function() {
    plot(data.results[0].geometry.location.lat, data.results[0].geometry.location.lng);
  });
});
}

function plot(lat, lng) {
  var mapOptions = {
    center: new google.maps.LatLng(lat,lng),
    zoom: 8,
    mapTypeId: google.maps.MapTypeId.ROADMAP
  };
  var map = new google.maps.Map(document.getElementById("map-canvas"), mapOptions);
  new google.maps.Marker({
    position: new google.maps.LatLng(lat,lng),
    map: map});
}

function fieldVal(str) {
  if (document.getElementById(str).value) {
    return document.getElementById(str).value;
  }
  return document.getElementById(str).innerHTML;
}

function showHomeDetails(){
  var hd = document.getElementById("homeDetails");
  var str = "Street Address: <br>" + fieldVal("field1")+ "<p>" + "<input type=button value='Refresh Map'
  onclick='initialize();>";
  hd.innerHTML = str;
}

```

```

initialize();
}
setTimeout("showHomeDetails();",2000);
</script>

<table style="width:100%;background-color:lightgrey;border:1px solid black;padding:20px;">
<tr><td class=label style="vertical-align:middle;width:50%;">
<div id="homeDetails" style="display:inline;" />
</td><td>
<div id="map-canvas" style="width:400px;height:400px;" />
</td></tr>
</table>

```

then we are able to configure something like the following:

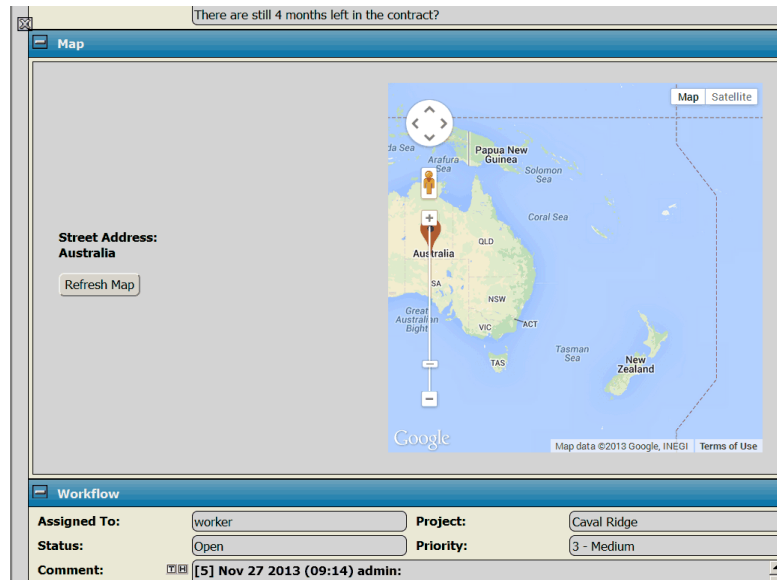


Figure 53: Configuring a Map Section

## Attachment Thumbnails

Positioning the attachment field as the first column in the user's profile, will create a thumbnail display of issues where a selection list is shown for all issues (provided the row field setting is not checked).


	<b>Vehicle Id</b> <a href="#">Edit</a>   <a href="#">3</a> <b>VIN</b> 1GBKP37N453328910 <b>Vehicle Platform</b> QF <b>Date</b> Aug 09 2012 <b>Inspect</b> Test <b>Responsible</b> General Assembly <b>Additional Details</b> The delivery dates that are shown in the RFP do not make sense and I do not want to irritate the persons doing the selection process.	<b>Status</b> Open <b>Characteristic</b> Air Conditioning
Rio.jpg Rio.jpg Canada.jpg	<b>Vehicle Id</b> <a href="#">Edit</a>   <a href="#">2</a> <b>VIN</b> ZFA22300005030902 <b>Vehicle Platform</b> AN <b>Date</b> Jul 20 2012 <b>Inspect</b> FIL <b>Responsible</b> Procurement <b>Additional Details</b> Nortel verbally committed to construct a new building, then went with another companyWe had lengthy discussion with Nortel about a new building at the Carling Campus. Two weeks after the fact, we were told we were no longer in the running.	<b>Status</b> Closed - General Inquiry <b>Characteristic</b> Roof

Figure 54: Alternate Main Menu Configuration

## Server Variables

The following is a list of undocumented server variables with a brief description of what they are used for. They can be added manually to the main server.cfg (restart needed) or they can be added from the Server Properties tab of the Server Configuration menu.

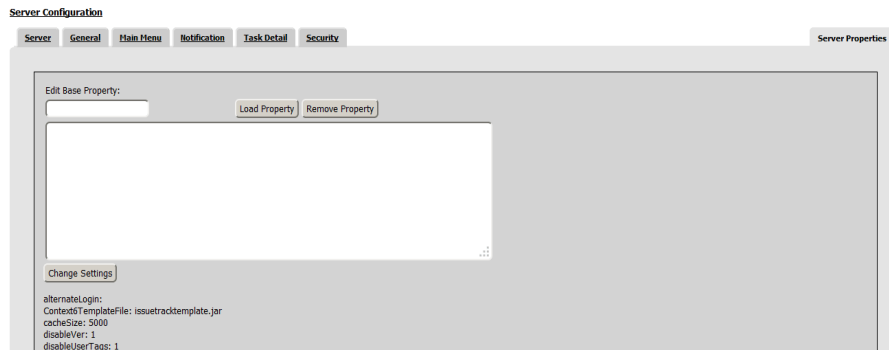


Figure 55: Setting Server Properties

Please note that some variables will not function properly without a restart. Also, some variables are not global, so you must account for the track you are in while editing.

**allowEditingOfHistoricalEntries** - this option add an option which enables a link for each history entry, which allows users to edit the entry (see image below). This feature is disabled by default because it allows users to alter the history of an issue, which is therefore, not a complete audit.

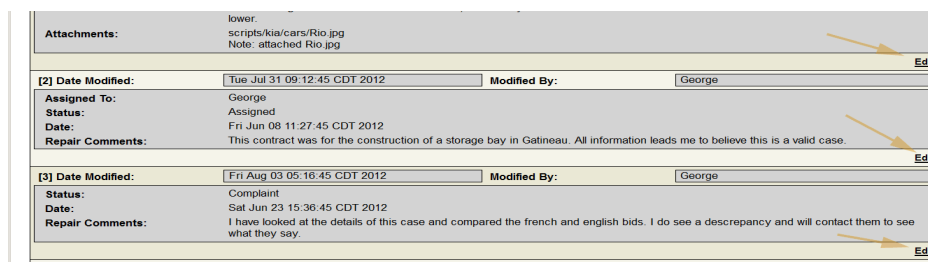


Figure 56: Editing Historical Entries

**oldAttachmentModel** - This option removes the versioning feature which is now part of attachments

**disableBackgroundAttachments** - This option removes the Ajax background uploading feature of Version 9. All attachments are uploaded only after the save button is pressed for the issue.

**attachmentMaxFileSize** - specify a maximum attachment size (in megabytes)  
**attachmentHideComment** - allows you to hide the attachment comment input field  
**attachmentHideVersion** - allows you to hide the attachment Version input field  
**attachmentFolderEditAdminOnly** - allows you to restrict folder creation to administrators

**disableChildHighlight** - removes the yellow highlight color which is given to child issues in the main menu, when “Show Child List” option is turned on in a user profile

**enableTabs** - this option will let you add tabs to the layout of the issue details menus. A new “Add Tab” control will be available in the Field Order menu. This feature is disabled by default because the display of notifications differs from the display of issues in ATS. Email browsers do not enable javascript, so tabs are simply displayed in sequential order for emails.

**extendAreaField**- extends the area field to a full line in cases where area names are too long for regular output.

**noMainMenuEdit** - removes the Edit link from each row on the main menu  
**oldFilterMenu** - causes ATS to default to the older filter construction screen, where all fields are displayed sequentially, rather than using the define filter definition controls.

**sURLPREFIX** - allows you to set the sURLPREFIX custom string for the entire system, rather than having to set in each individual track.

## Configuring Translations

The user preferences tab of the user profile has a Language setting which can be used to select the preferred language for a user, if additional languages exist. In addition, the administrator can enable “Enable Language Links” from the general tab of the Server Configuration. If enabled, the Session Options will include “Change Language” link, which can be used to change the language setting for the given user.

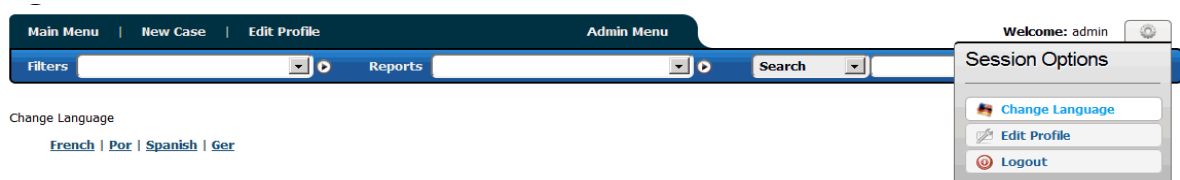


Figure 57: Change Language Option

This feature relies on the translations which are defined in the Admin-> Customize Strings feature. All strings in the system can be translated to any desired language. If a user selects

that language, then the string conversions are made and the user will see translated labels and links for all the tool features.

In addition, custom fields have a “Configure Translations” option which will allow the administrator to define name translations in addition to value translations (if the field is a drop-down list item). In this case, the translations are done on a line by line basis.

When the field is set to translate, a new link is shown for setting up the translated strings. The menu for making the custom field translations will look something like the following:

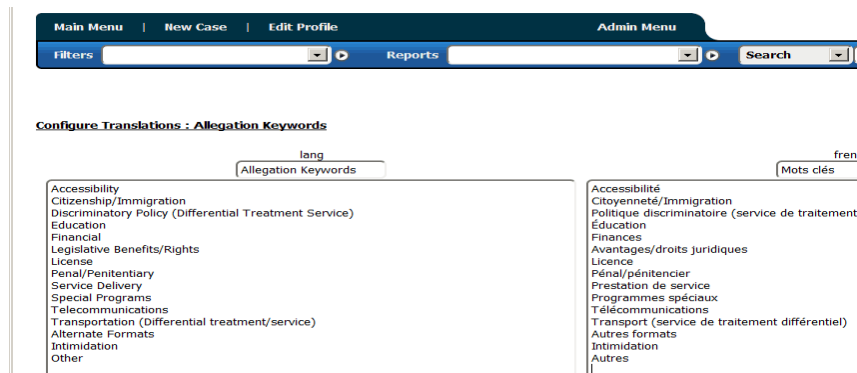


Figure 58: Translating Custom Drop-down options

A French and Spanish translation is included with the product.

# Appendix E: Track Relationships

## Track Association Fields

A track is the base configuration used to track a particular object (ie: issue/case/ticket/etc) and consists of sections and fields which are put together as a template to properly record details for that object. A number of tracks can be added to one system to track different objects for an organization. When there are multiple tracks in a system, a “Switch Track” drop-down will be displayed next to the Dashboard, enabling the user to switch from the main menu of one list of objects, to another.

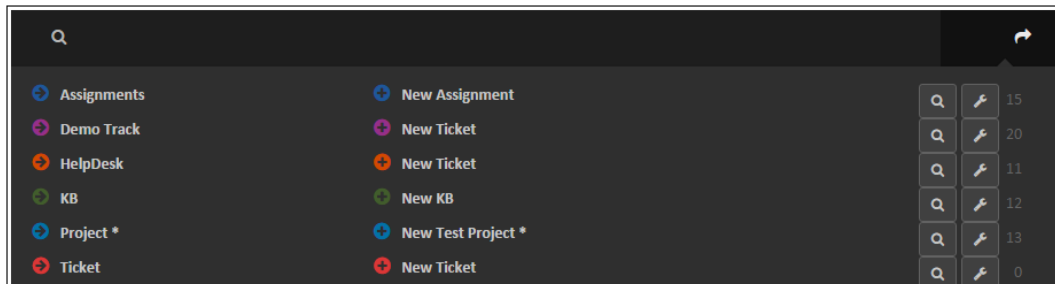


Figure 59: Switch Track Example

These tracks may contain data which is related between tracks. For example, a track which is used to manage cases, might contain a field for the customer which entered the ticket. The details for this customer may be stored in another track within that system.

The next logical step is to associate the details from one track to the other. In the following example, a case is visible with relationships to three other tracks (inquiries, individuals and Organizations).

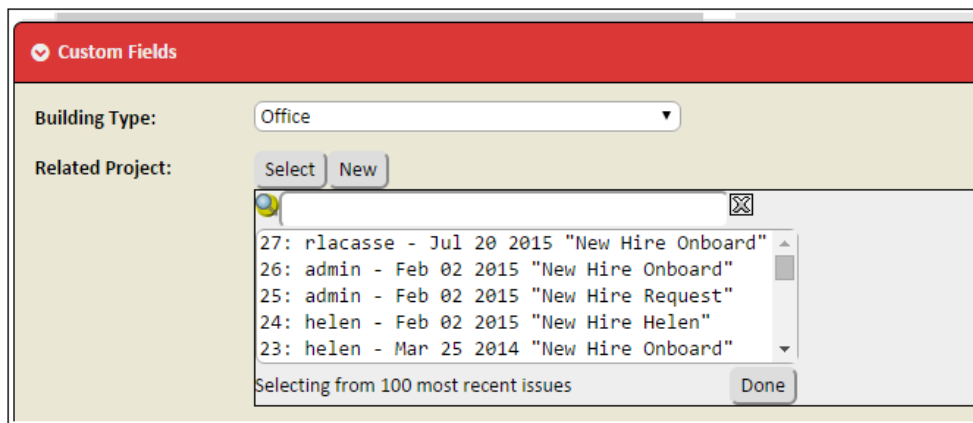


Figure 60: Case Relationships

Track Associations can be created using the parent and child field custom field types in the advanced custom field section. These associations are (1-N) relationships allowing you to link a parent issue from one track to N child issues in another track and have them displayed with field data in the associated track. The above example shows two Inquiries (with ids 1 and 4) which are related to the current Case. In addition there is a relationship to one individual (Audrey Flynn) and 1 Organization (Zicom).

## Defining Track Associations

The parent field type allows you to associate an issue in another track as the first part of a 1-N relationship. The child field type allows you to associate multiple issues of another track in the 1-N relationship.

Parent Track - the track where parent issues will be linked to.

Parent Fields Displayed - a list of field ids (separated by spaces) which will make up the field columns for the parent issues details that are listed. The ids for default fields are listed in the Rank documentation. All custom field ids are available in the custom field menu and must have 100 added to them to be interpreted by this feature (distinguishes from default fields).

If left blank, it will default to [1 2 3 4 5 6], which corresponds to [Id, Subject, AssignedTo, DateLastModified, Status, Priority] and is displayed as:

5 / Unfair Practice / gduser / Nov 25 2013 / Open / Medium

Parent Field Format - allows you to define the exact format of the fields in the selection format. The format is any text where all numeric values preceded by a hash, are converted to the value of the field with that id number. For example, from the example above "ID #1 has subject [#2] and was last modified by #3" would be converted to:

ID 3 has subject [unfair practice] and was last modified by gduser

If not defined, the display is basic and simply uses the Parent Fields Displayed and separates values with a "|". The above example would be:

This format is also used to view details for row fields on the main menu. The example for Individuals uses the following string:

#101 #119 ,[#103, #104, #105], #102

while Inquiry has nothing defined. Here are the results:

<a href="#">Edit</a>   <a href="#">2012</a> >	manager	Sep 29 2013 (06:15)	Open	6 - Change Request
<u>Subject</u>	Case of the missing cookie			
<u>Individual</u>	Audrey Flynn ,[Rencontre East, Newfoundland, K2N 9M6, (613) 771-5951], 23 Shady Nectar Way			
<u>Inquiry</u>	1	Mis-managed funds	admin	Aug 30 2013   Open   3 - Medium
	4	Not sure if LSC is fol..	admin	Aug 30 2013   Open   3 - Medium

Figure 61: Customizing Relationship Fields

Parent Field Attributes - an optional list of attributes for the fields displayed to control width (ie: mw-ID=Value) of the column or maximum length of text (ie: ml-ID=VALUE).



Notes:

You must add 100 to any custom field id values.

Substitute ID and VALUE for field id and desired width/length.

Any id used in the field format, must be listed in the fields displayed.

Parent Association Field Link

The parent association field link will allow you to show the value for a field from another track, given there is a relationship defined for the Local Parent field Id. For example, in our example, we set Local Parent id to (101), which is a the id of the individual relationship field. Then we set the remote field id to (119 which is the id of the last name custom field in the Individual track). This will show then show the associated last name value for any relationship (1-1 relationships only).

In the following screenshot, we made the associated Field Link field visible on the main menu. You can see it shows the last name which matches the information in the row field.

Case ID	Assigned To	Date Last Modified	Current Stage	Priority	association Field Link		
<a href="#">Edit</a>   <a href="#">2013</a>	manager	Oct 27 2013 (08:05)	Open	2 - High	Stafford		
	<u>Subject</u>	RFP for FWSAR					
	<u>Individual</u>	Emma Stafford, (Blind River, Ontario, K2X 5H5, (613) 178-4410), 1013 Broad Zephyr Place					
	<u>Inquiry</u>	1	Mis-managed funds	admin	Aug 30 2013	Open	3 - Medium
<a href="#">Edit</a>   <a href="#">2012</a>	manager	Sep 29 2013 (06:15)	Open	6 - Change Request	Flynn		
	<u>Subject</u>	Case of the missing cookie					
	<u>Individual</u>	Audrey Flynn, (Rencontre East, Newfoundland, K2N 9M6, (613) 771-5951), 23 Shady Nectar Way					
	<u>Inquiry</u>	1	Mis-managed funds	admin	Aug 30 2013	Open	3 - Medium
		4	Not sure if LSC is fol..	admin	Aug 30 2013	Open	3 - Medium

Figure 62: Parent Association Field Link

Child Track Association

A child or parent reciprocal field must be defined in the associated group, in order for the relationship to be fully related.

The settings for the child field are equivalent to the parent field. The only exception is that a parent field will show a select and new button for making relationships. The parent field also has an Add button for creating new children.