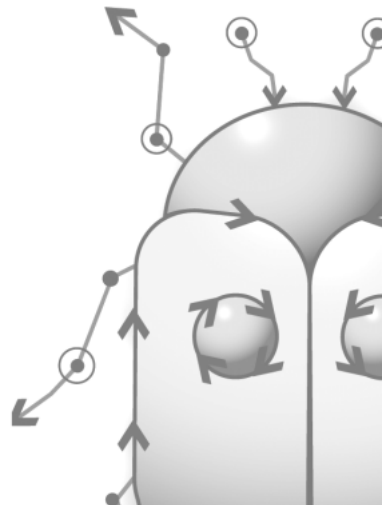


TestTrack Pro Windows Client

User Guide Admin Guide



August 2003

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Chapter 1

About TestTrack Pro

Welcome to TestTrack Pro!

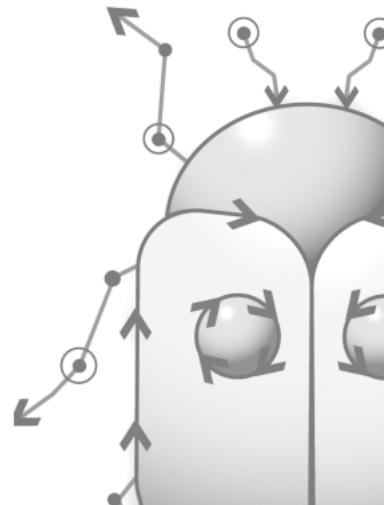
You have an important job to do - deliver a quality product on time and within budget. And, whether you are developing, testing, fixing bugs, or managing the team, you do not have time to learn another complex application. TestTrack Pro helps you control your bug tracking process. Design a complex tracking structure, or simply install the software, and start tracking the TestTrack Pro way!

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What's new in TestTrack Pro 6.0?

TestTrack Pro 6.0 includes many significant enhancements such as additional password security options for user accounts, 512-bit encrypted client/server communication, and additional automatic assignment rules.

Introducing the Seapine License Server

The Seapine License Server is a client/server application that manages user licenses for all Seapine products. It also contains product-independent user and customer information that is shared across Seapine products. All product servers connected to a license server can share the licenses and users that reside on that server.

No more choosing between Web and Windows clients

TestTrack Pro 6.0 users can log in from Web or Windows clients without purchasing separate licenses, saving money and giving users the choice of how they access TestTrack Pro. The Web and Windows clients support both named and floating licenses, providing maximum licensing flexibility.

Customizable workflows

TestTrack Pro 6.0's fully customizable workflow lets you define states, events, and state transition rules. In version 6.0, you can model your most complex workflow processes. TestTrack Pro 6.0 can even diagram the workflow for you.

Assign defects to multiple users

Need to assign a fixed defect to your QA team for verification? TestTrack Pro 6.0 can handle this and other group assignment tasks with ease. Need everyone in the group to sign off before moving the issue to a new state? TestTrack Pro 6.0 handles this too, giving you more control over your process.

Enhanced email notifications

TestTrack Pro 6.0 provides more control over who receives email notifications for specific events, products, issue types, and more. Version 6.0 also includes an unlimited number of customizable email templates and supports HTML-based email.

Even better custom field support

You can now define up to 100 custom fields for your issues. TestTrack Pro 6.0's enhanced SOAP API supports full access to custom fields.

Additional fields in events

Issue event records now support file attachments, custom fields, and time tracking fields, giving you more control over the fields defined for each event.

Documentation conventions

The documentation, and most of the examples, are based on the default TestTrack Pro workflow. There are a few conventions used throughout the guide that are designed to be completely predictable – making it is easy to understand what you are reading and what you’re supposed to do. Many of the TestTrack Pro commands are available from menus, toolbars, shortcut menus, and shortcut keys. Throughout this guide, most commands are explained using both the menu command and the toolbar button. As you become more familiar with TestTrack Pro, you may find shortcut menus and shortcut keys more efficient to work with. When you are instructed to select a menu command, you will find the menu name, followed by an arrow. For example, to add a defect, choose **Create > Defect**. Indented text is also used to draw attention to notes, tips, examples, etc.

Before you start

This guide assumes your PC, printer, and network (if applicable) are set up and ready to use. It also assumes you know how to perform the basic skills needed to use them. If you need more information on basic features, refer to the user guide that came with your computer.

Contacting Seapine support

Telephone: 513-754-1655

Email: support@seapine.com

Web site: <http://www.seapine.com>

Note: Check our [web site](#) for the latest news and updates. You can also find help in our [Knowledgebase!](#)

Documentation feedback

Seapine Software welcomes your feedback on the documentation included with this product. If you have comments or suggestions about the documentation, please email: documentation@seapine.com. This email address is provided for documentation only. You may not receive a reply to your email. For technical questions or support, contact support@seapine.com.

Chapter 2

Getting Started

Start Tracking!

In just a few minutes, you'll learn about starting TestTrack Pro, opening databases, and connecting to the server - everything you need to begin tracking bugs!

Starting the TestTrack Pro server, 6

Starting TestTrack Pro, 6

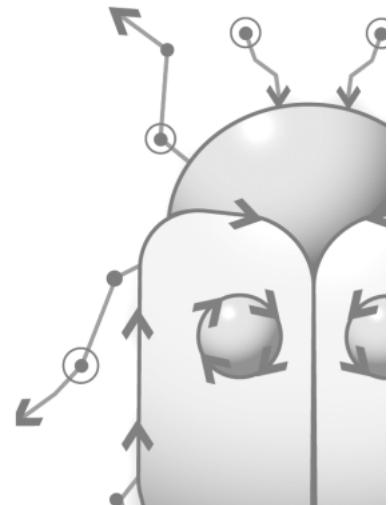
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Starting the TestTrack Pro server

Note: Remember, the Seapine License Server must be running before you start the TestTrack Pro server.

The server must be running before users can access TestTrack Pro databases. The server can be run as an application, as a Windows service, or as a Windows pseudo service. Refer to the **TestTrack Pro Installation Guide** for more information.

If the TestTrack Pro server is running as a Windows service, it starts automatically. If the TestTrack Pro server is running as an application, the server must be started manually.

Manually starting the TestTrack Pro server

- 1 On the Start menu, choose **Programs > TestTrack Pro > TestTrack Pro Server**.

Active databases are loaded when the TestTrack Pro server is started.

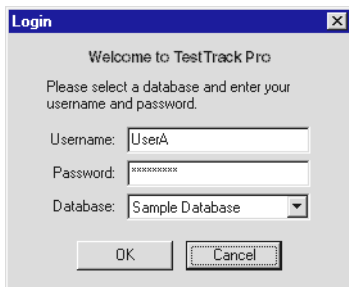
When the TestTrack Pro server is running, an icon is placed in the server PC's status bar. If the bug is green, the server is running correctly. If the bug is yellow or red, the server is not running correctly.



Starting TestTrack Pro

- 1 On the Start menu, choose **Programs > TestTrack Pro > TestTrack Pro Client**.

The Login dialog box opens.



- 2 Enter your **Username** and **Password**.
- 3 Select a database from the **Database** list and click **OK**.

You are logged in and ready to start using TestTrack Pro.

- 4 If there is a problem connecting to the server, check the following and try reconnecting to the server:
 - Double-check the IP address and/or port number.
 - Make sure you are connected to the network, intranet, or Internet.
 - Contact your TestTrack Pro administrator for help.

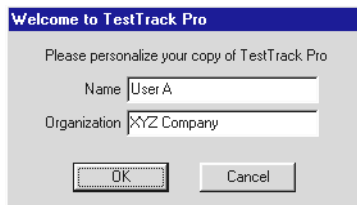
If you are the **TestTrack Pro administrator**, check the following:

- Make sure the server computer is on.
- Make sure the TestTrack Pro Server application is running on your server computer.

Initially starting TestTrack Pro

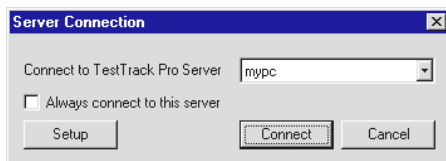
- 1 The first time you start TestTrack Pro, the Welcome to TestTrack Pro dialog box opens.

The Welcome to TestTrack Pro dialog box opens.



- 2 Enter your **Name** and **Organization**.
- 3 Click **OK**.

The Server Connection dialog box opens.



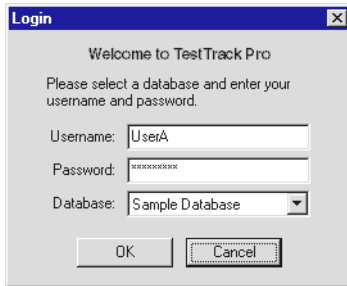
- 4 Select a server from the **Connect to TestTrack Pro Server** list.

Note: If the list is not populated, you need to configure the server connections. See [Setting up server connections](#), page 9.

- 5 Select **Always connect to this server** to automatically connect to the selected server.

6 Click Connect.

The Login dialog box opens.

**7 Enter your Username and Password.****8 Select a database from the Database list and click OK.**

You are now ready to start using TestTrack Pro.



Where do I start?

If you are the **Project Manager**, start with the Defects list to view all the defects in the database. Next, create filters to view specific defects. For example, create a filter that displays all defects currently in an Open state. You may also want to print a report that lists all defects opened in the past week.

If you are the **Lead Engineer**, start with the Defects list. Create a filter that displays all defects created, fixed, or verified in the last week **and** are not currently assigned and not in the closed state. Then, assign the defects to the appropriate person.

If you are an **Engineer/Developer**, start with the Workbook. The Workbook displays all the defects assigned to you and any to do tasks you added. You can also start with the Defects list and create a filter to displays only the defects assigned to you.

If you are the **Lead QA** person, start with the Defects list and create a filter that displays all defects that are currently released to testing. Then, assign these defects to a QA team member for verification. You can also create a filter that displays defects that failed verification.

If you are a member of the **QA team**, start with the Workbook. The Workbook displays all the defects assigned to you and any to do tasks you added. If you need to add new defects, start with the Defects list.

Setting up server connections

Server connections, used to access TestTrack Pro databases, need to be set up. The TestTrack Pro administrator can enter server connection information using the Server Admin Utility or users can set up server connections. Depending on your company's process, you may be required to set up server connections.

Adding server connections

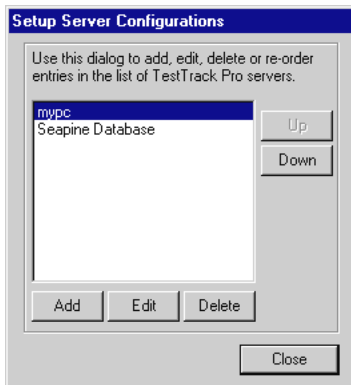
The databases you use can be located on different servers. You need to add a server connection to access the TestTrack Pro server.

- 1 Choose **File > New Server Connection**.

The Server Connection dialog box opens.

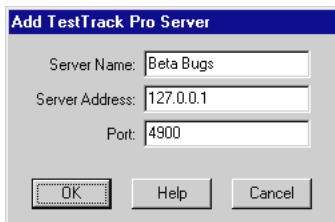
- 2 Click **Setup**.

The Setup Server Configurations dialog box opens.



- 3 Click **Add**.

The Add TestTrack Pro Server dialog box opens.



- 4 Enter a **Server Name** and **Server Address**.

The server address is the IP address of the computer where the TestTrack Pro server application is installed. Your TestTrack Pro administrator can tell you the server address.

- 5 Enter the **Port** number.

TestTrack Pro clients connect to the server on this port via TCP/IP. Valid values are 1-65535. The default value is 99.

- 6 Click **OK**.

The server connection is added. You return to the Setup Server Configurations dialog box. To change the order of the servers, select a server entry and click **Up** or **Down**.

- 7 Click **Close** to close the Setup Server Configurations dialog box.

Editing server connections

- 1 Choose **File > New Server Connection**.
- 2 Click **Setup**.
- 3 Select the server and click **Edit**.
- 4 Make any changes and click **OK**.

Deleting server connections

- 1 Choose **File > New Server Connection**.
- 2 Click **Setup**.
- 3 Select the server and click **Delete**.

You are prompted to confirm the deletion.

- 4 Click **Yes**.

The server is deleted.

Opening a database

Use this command to open a database that is located on the server you are connected to.

- 1 Choose **File > Open Database** or click the **Open Database** toolbar button.

You are prompted to close the open database.

- 2 Click **Yes**.

The Login dialog box opens.

- 3 Enter your **Username** and **Password**.
- 4 Select a database from the **Database** list and click **OK**.

Connecting to a server

Use this command to connect to a different server and open a database on that server.

- 1 Choose **File > New Server Connection**.

The Server Connection dialog box opens.

If you are logged in to a database, you are prompted to close the database. Click **Yes**.

- 2 Select a server from the **Connect to TestTrack Pro Server** list and click **Connect**.

The Login dialog box opens.

- 3 Enter your **Username** and **Password**.
- 4 Select a database from the **Database** list and click **OK**.

Viewing project information

You can view information about the database you are logged in to.

- 1 Choose **Help > Project Info**.

The Project Information dialog box opens. It includes the project name, description, and creation date.

- 2 Click **OK** to close the dialog box.

Logging out

Logout of TestTrack Pro when you finish working with defects. This is important if your company uses floating licenses. The license you are using is not available to other users until you logout.

- 1 Choose **File > Logout and Disconnect**.

You are logged out from the database and disconnected from the server.

Tip: To close the TestTrack Pro application, choose **File > Exit**.

Chapter 3

Personalizing TestTrack Pro

Up Close and Personal!

Take the time to personalize TestTrack Pro and set the options that will make your job easier!

Setting local options, 14

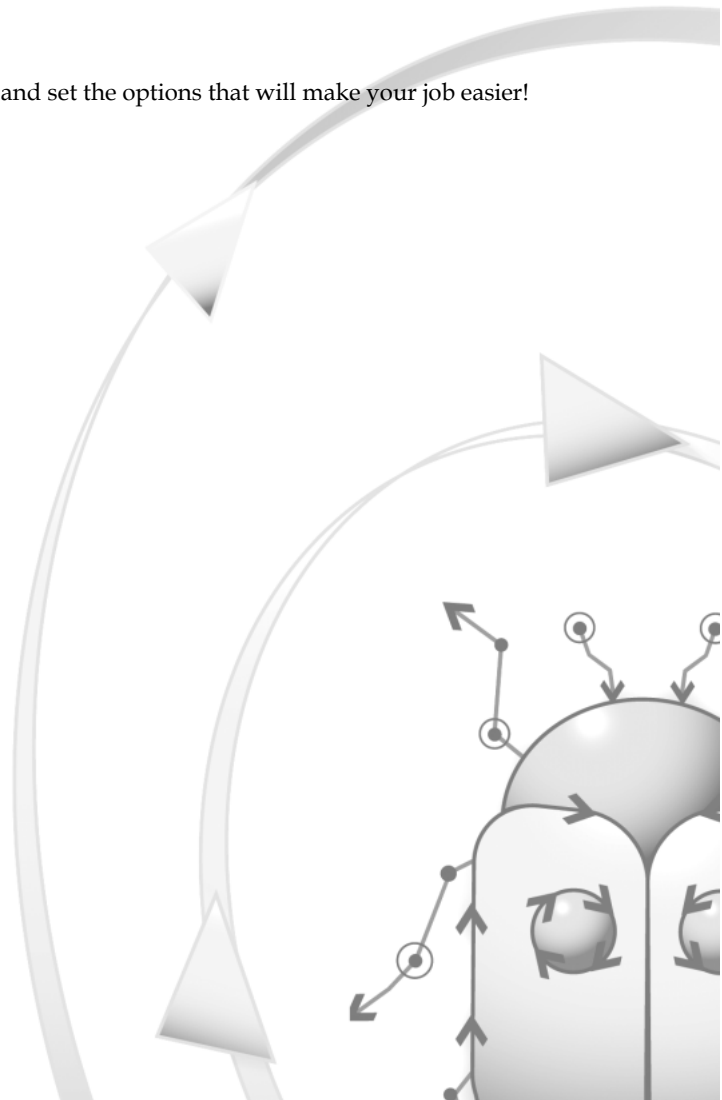
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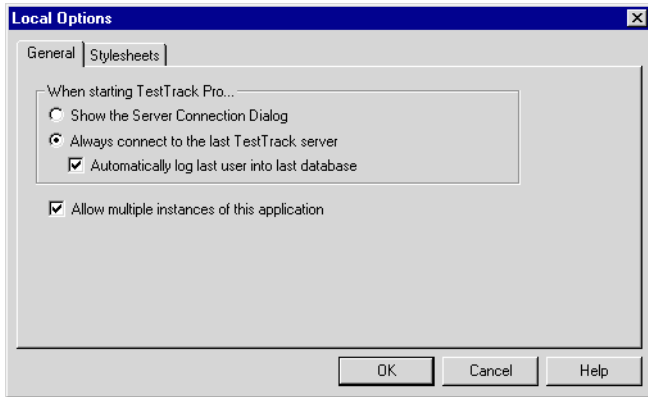


Setting local options

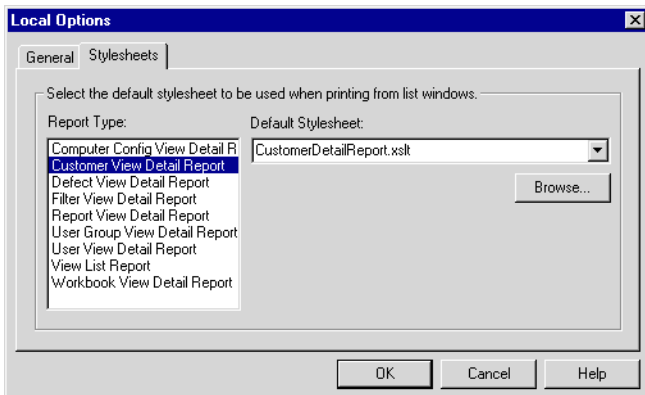
Local options are global. You do not need to log in to a specific database to set these options.

- 1 Choose **Edit > Options > Local Options**.

The Local Options dialog box opens with the General tab selected.



- 2 Select the general options.
 - Select **Show the Server Connection Dialog** if you connect to different servers. When you start TestTrack Pro, the server connection dialog box opens so you can choose a server.
 - Select **Always connect to the last TestTrack server** if you always connect to the same server.
 - Select **Automatically log last user into last database** if security is not a concern. You are automatically connected to the server and logged in to the last database used.
 - Select **Allow multiple instances of this application** if you want to login to different databases at the same time. You can open multiple instances of TestTrack Pro.
- 3 Click the **Stylesheets** tab to select the default stylesheet you want to use when printing from list windows.



- 4 Select a **Report Type** from the list.

Each **Report Type** corresponds to a list window. For example, the **Filter View Detail Report** prints a detail report for all filters in the database.

- 5 Select a **Default Stylesheet** for the selected report or click **Browse** to use a customized stylesheet.

For more information, see [Using stylesheets, page 82](#).

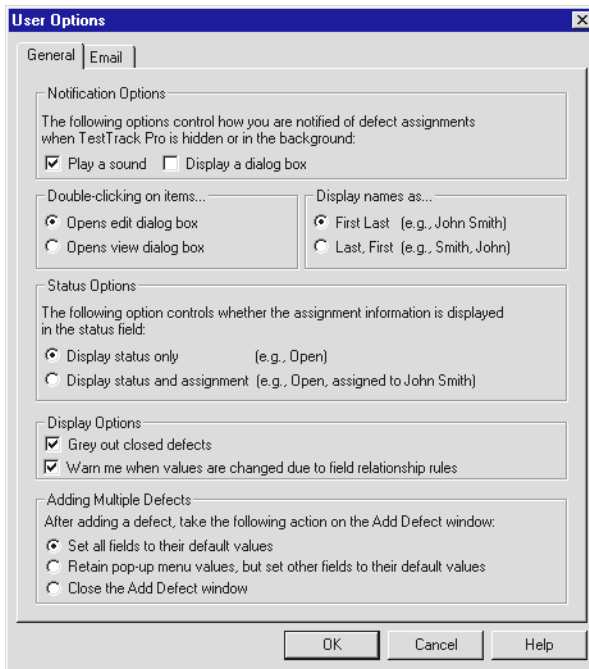
- 6 Click **OK** to save the local options you set.

Setting general user options

User options are database-specific and only affect the database you are logged in to.

- 1 Choose **Edit > Options > User Options**.

The User Options dialog box opens with the **General** tab selected.



- 2 Select a **Notification Option**.

TestTrack Pro can either play a sound or open a dialog box to notify you of defect assignments. You can also clear both options.

3 Select a **Double-clicking on items...** option.

This option affects records displayed on list windows. For example, you set this option to open the edit dialog box. If you double-click a user on the Users list window, the Edit User dialog box opens.

4 Select a **Display names as...** option.

Names can be displayed on First/Last or Last/First order.

5 Select a **Status** option.

You can display the status or the status and the assignment information.

6 Select a **Display** option.

- Select **Grey out closed defects** if you want closed defects to appear dimmed on the list window. If you work with a large number of defects, this option can help you quickly view closed defects.
- If the database uses field relationships, select **Warn me when values are changed due to field relationship rules** to display a warning if you change a value that affects field relationship rules. This option helps enforce field relationship rules.
- You can also clear both options.

7 Select an **Adding Multiple Defects** option.

This option affects the Add Defect dialog box and the action that is applied when you are adding new defects.

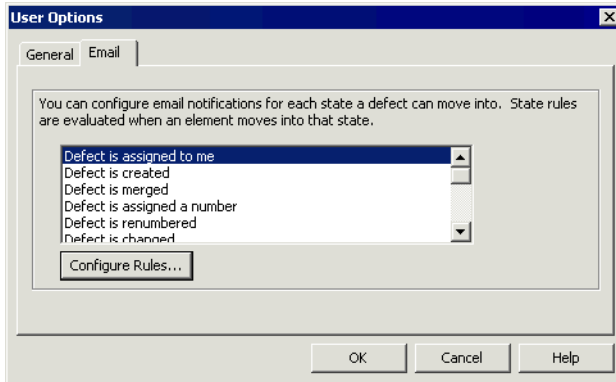
- Select **Set all fields to default values** if you want fields on the Add Defect dialog box reset with their default values.
- Select **Retain pop-up menu values, but set other fields to their default values** to keep the values you choose for pop-up fields and reset all other fields with default values. Pop-up fields include: Type, Product, Disposition, Priority, Component, and Severity. The other fields include: Entered By, Found By, Version Found, Reproduced, Computer Config, and Custom fields.
- Select **Close the Add Defect window** if you want the Add Defect dialog box to close after a defect is added.

Configuring email notifications

Email notifications provide a way to stay up to date with changes to defects. Select options carefully so you do not receive an email each time a defect moves to another state in the workflow. You can also select filters to further restrict the email notifications you receive. You may also receive system notifications, which the TestTrack Pro administrator configures.

Adding notification rules

- 1 Choose **Edit > Options > User Options**.
- 2 Click the **Email** tab.

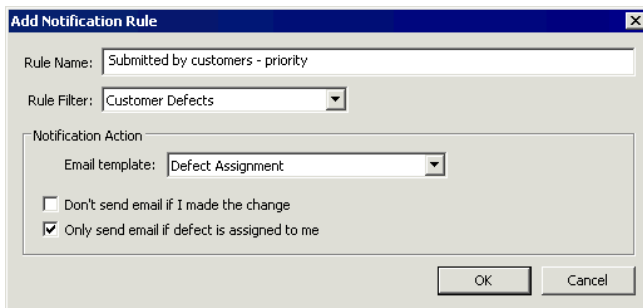


- 3 Click **Configure Rules**.

The Configure User Notification Rules dialog box opens. The notification name is listed in the top left corner of the dialog.

- 4 Click **Add** to add a rule.

The Add Notification Rule dialog box opens.



- 5 Enter a **Rule Name**.

- 6 Optionally select a **Rule Filter**.

If a database contains a large number of defects, you may want to filter the defects the rule is applied to. If you need to add filters, see [Creating filters, page 72](#).

- 7 Select an **Email Template**.
- 8 Select **Don't send email if I made the change** if you do not want to receive an email if you changed the defect.
- 9 Select **Only send email if defect is assigned to me** if you only want to receive an email if you are the assigned user.
- 10 Click **OK**.

The rule is added.

Editing notification rules

- 1 Choose **Edit > Options > User Options**.

The User Options dialog box opens.

- 2 Click the **Email** tab.
- 3 Click **Configure Rules**.
- 4 Select a rule and click **Edit**.
- 5 Make any changes and click **OK**.

The changes are saved.

Inactivating notification rules

If there is a rule that is no longer in use, inactivate it instead of deleting it. You can easily activate the rule if you decide to use it again.

- 1 Choose **Edit > Options > User Options**.
- The User Options dialog box opens.
- 2 Click the **Email** tab.
 - 3 Click **Configure Rules**.
 - 4 Select a rule and click **Inactivate**.

The rule is inactivated.

Note: To activate an inactive rule, select the rule and click **Activate**.

Deleting notification rules

Delete rules if you are certain you will not use the rule again. You can also inactivate a rule to disable it.

Note: Make sure you want to delete the rule. You are not prompted to confirm the deletion and this action cannot be undone.

- 1 Choose **Edit > Options > User Options**.

The User Options dialog box opens.

- 2 Click the **Email** tab.

- 3 Click **Configure Rules**.

The Configure Rules dialog box opens.

- 4 Select a rule and click **Delete**.

The rule is deleted.

Setting passwords

- 1 Choose **File > Set Password**.

The New Password dialog box opens.

- 2 Enter a password and click **OK**.

The Verify Password dialog box opens.

- 3 Retype the password and click **OK**.

Changing passwords

- 1 Choose **File > Set Password**.

The Old Password dialog box opens.

- 2 Enter your old password and click **OK**.

The New Password dialog box opens.

- 3 Enter a new password and click **OK**.

The Verify Password dialog box opens.

- 4 Retype the password and click **OK**.

The password is saved.

Removing passwords

- 1 Choose **File > Set Password**.

The Old Password dialog box opens.

- 2 Enter your old password and click **OK**.

The New Password dialog box opens.

- 3 Leave the field blank and click **OK**.

The Verify Password dialog box opens.

- 4 Leave the field blank and click **OK**.

The password is removed.

Chapter 4

Learning the Basics

Take a tour!

TestTrack Pro is easy to use, but it is even easier when you understand the basics and learn a few shortcuts. Take a few minutes to read this overview information.

TestTrack Pro interface, 22

TestTrack Pro toolbar, 23

List windows, 24

Adding columns, 27

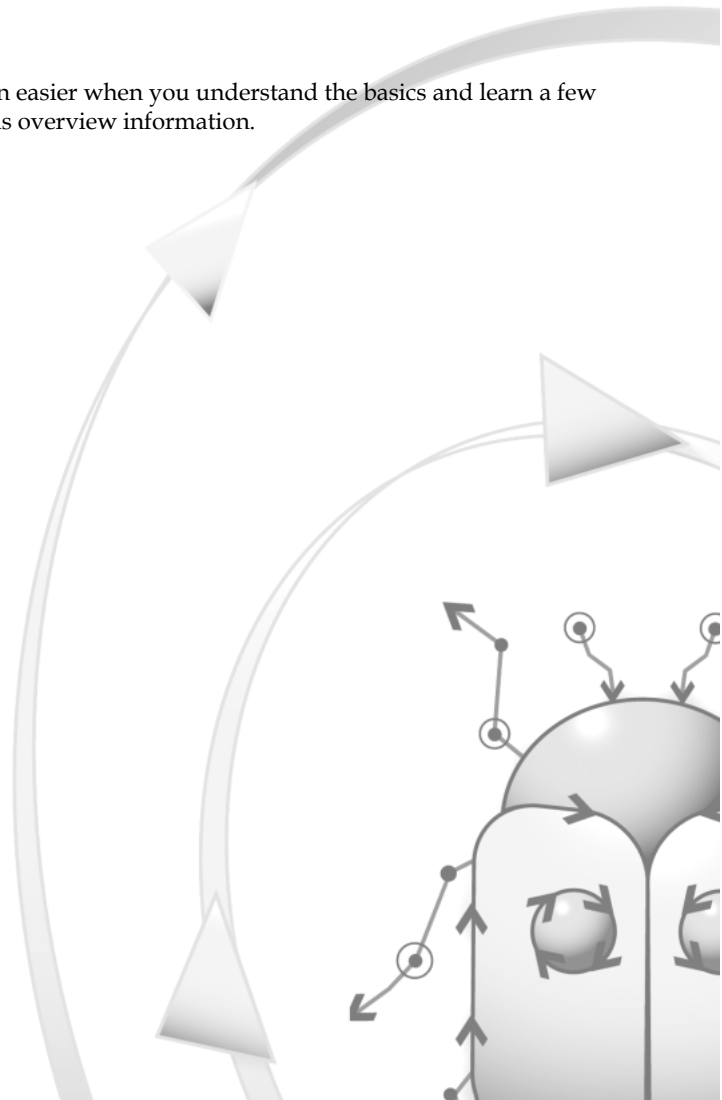
Adding column contents, 28

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Changing column widths, 28

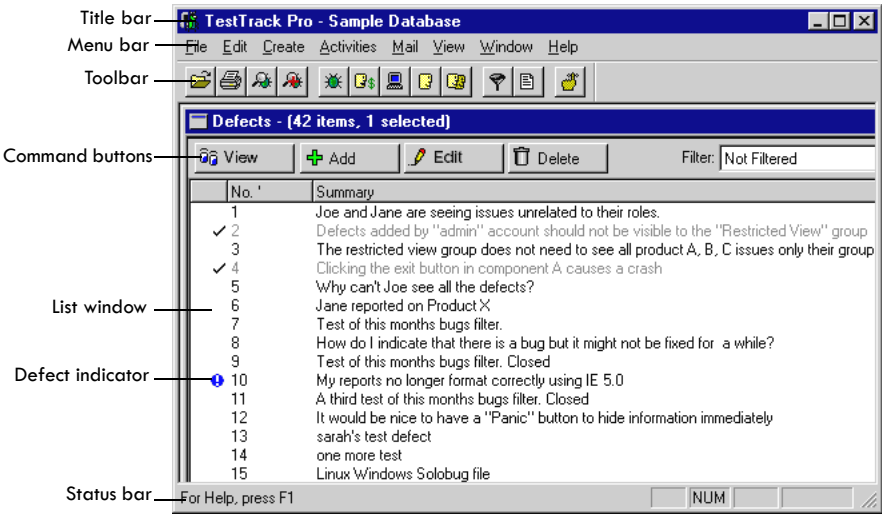
Removing columns, 28

Printing, 29



TestTrack Pro interface

TestTrack Pro provides complex functionality with an easy to use, and learn, interface. The interface includes eight list windows. Features, such as the title bar, command buttons, menu bar, toolbar, status bar, and tooltips are common to all list windows. Some features and options, such as active menus and commands, depend on the list window and your security permissions.



Title bar

Lists the name of the open database or the name of the open list window.

Menu bar

Contains the available menus. Menu commands vary depending on the function you are performing, your security permissions, and the list window you are working on. If a menu command is unavailable, you do not have access to that command or the command is not available for the list window you are on.

Toolbar

Provides access to TestTrack Pro commands and list windows.

Command buttons

Located at the top of every list window, these buttons provide another way to access the View, Add, Edit, and Delete commands.

Status bar













Includes information such as the number of defects assigned to you or a toolbar button description.

Tooltips

When you place the cursor over a toolbar button, a command description opens.

TestTrack Pro toolbar

The toolbar contains buttons that give you access to TestTrack Pro commands and list windows—just a click away!

Click	To do this...
	Open a database
	Open the Print Option dialog box
	Open the Find Defects dialog box
	Open the Advanced Find Defects dialog box
	Open the Defects list window
	Open the Customers list window
	Open the Test Configs list window
	Open the Users list window
	Open the User Groups list window
	Open the Filters list window
	Open the Reports list window
	Open the Workbook list window

Tip: You can also access these commands from TestTrack Pro menus. For example, to open the Defects list window, choose **View > Defects**.

List windows

List windows are used to display basic record information. TestTrack Pro includes the following list windows: Defects, Customers, Users, User Groups, Test Configs, Filters, Reports, and Workbook.

Opening list windows

Click the corresponding **TestTrack Pro toolbar** button. Or select the list window you want to open from the **View** menu.

Selecting records

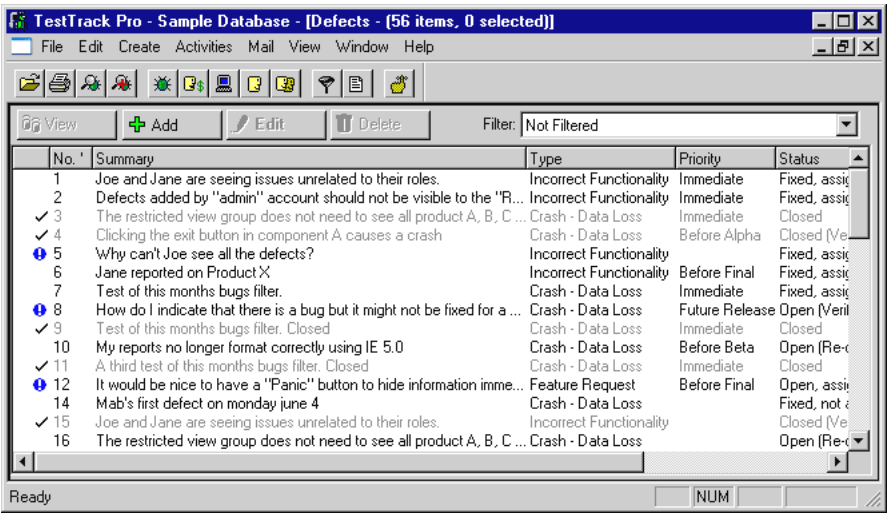
Before you can work with records, you need to select the records on the list window.

- To select all records, choose **Edit > Select All** or press **Ctrl + A**.
- To select more than one record, hold down the **Ctrl** key while clicking the records.
- To select a range of records, click the first record, then hold down the **Shift** key and click the last record.

Defects list window





The Defects list window provides access to defects and defect actions. For more information, see **Chapter 5, “Working with Defects,”** page 31.

This list window also includes defect indicates that point out new, changed, and closed defects and the defects assigned to you. You can also filter the records that are displayed in the list window.



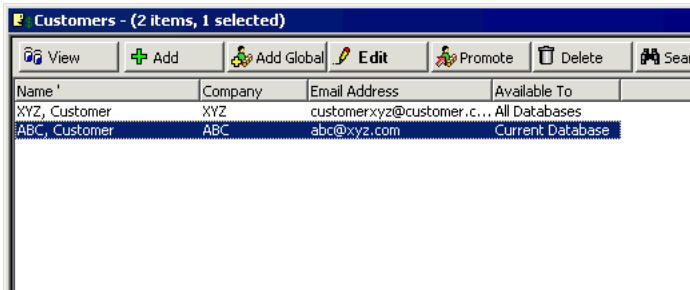
Defect indicators

Defect indicators are icons on the Defects list window that point out new defects, changed defects, closed defects, and the defects that are assigned to you.

Icon	Name	Indicates
	New Defect	Defects added since you last logged in
	Changed Defect	Defects that changed since you last logged in
	Closed Defect	Closed defects
	Assigned Defect	Defects assigned to you

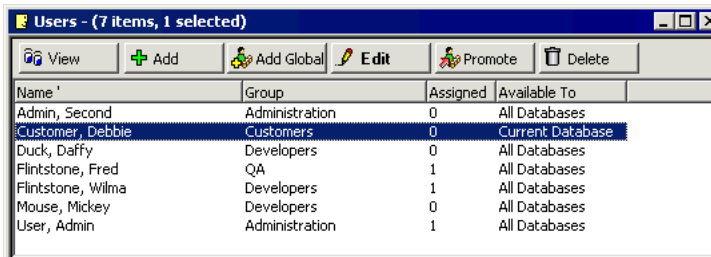
Customers list window

The Customers list window provides access to customers and customer commands. For more information, see [Chapter 19, “Managing Customers,”](#) page 205.



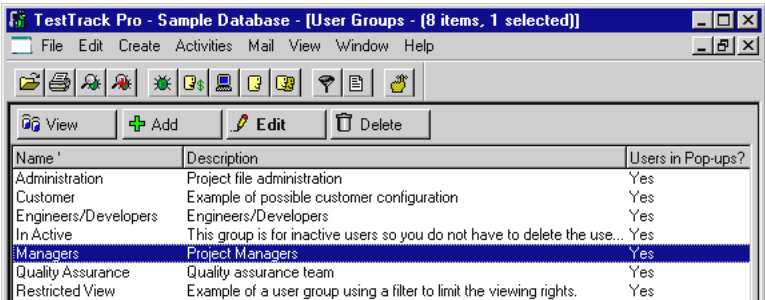
Users list window

The Users list window provides access to users and user commands. For more information, see [Chapter 18, “Managing Users,”](#) page 193.



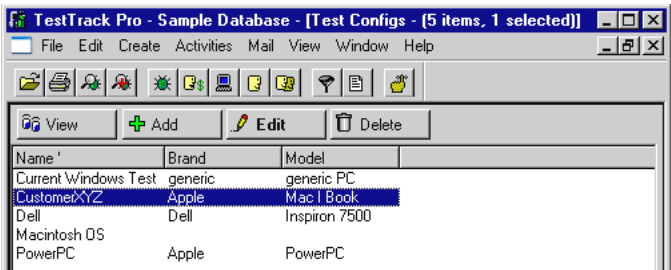
User groups list window

The User Groups list window provides access to user groups and user group commands. For more information, see [Chapter 17, “Managing User Groups,”](#) page 185.



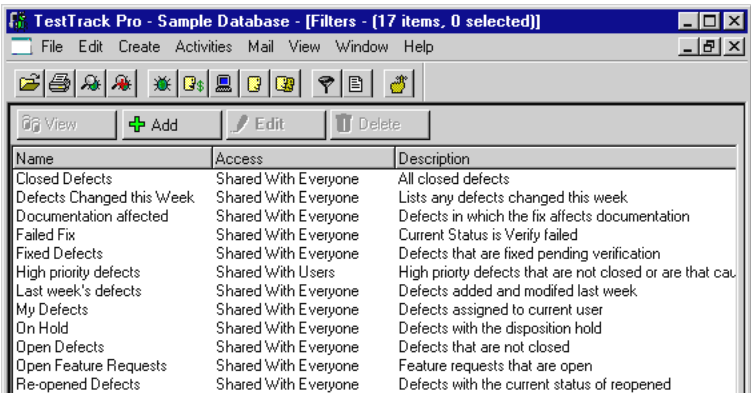
Test configs list window

The Test Configs list window provides access to test configs and test config commands. For more information, see [Chapter 8, “Managing Test Configs,”](#) page 77.



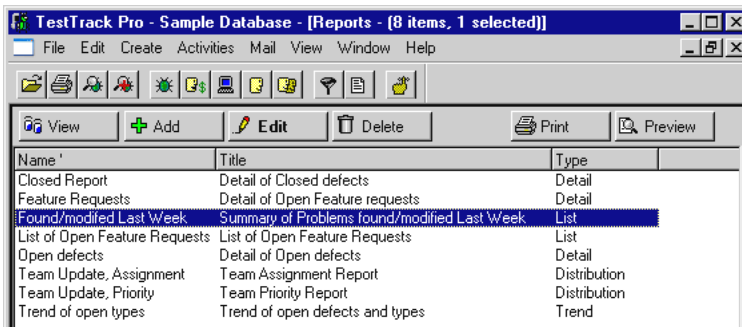
Filters list window

The Filters list window provides access to filters and filter commands. For more information, see [Chapter 7, “Using Filters,”](#) page 71.



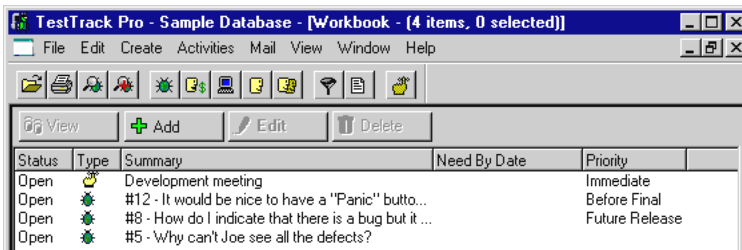
Reports list window

The Reports list window provides access to reports and reports commands. For more information, see [Chapter 9, “Generating Reports,”](#) page 81.



Workbook list window

The Workbook list window provides access to your personal workbook, your assigned defects, and tasks you add to the Workbook. For more information, see [Chapter 10, “Using the Workbook,”](#) page 99.



Adding columns

List window information is displayed in a column format. This lets you customize the information that is displayed. For example, you can add and remove columns or sort columns to easily view information that's important to you.

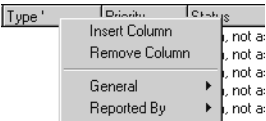
- 1 Right-click the column heading you want to add a column next to.
- 2 Select **Insert Column** from the shortcut menu. An empty column is added to the left of the selected column.
- 3 Select a field name to add column contents.

Adding column contents

To add or change column contents, select a new field for the column.

- 1 Right-click the column heading you want to change.

The shortcut menu lists all the available fields.



- 2 Select the field name from the menu.

The column heading changes to the field name and the selected field contents are displayed.

Sorting columns

You can sort by any column and you can perform primary and secondary sorts.

- To sort a **primary column**, click the column heading. A single tick mark appears to the right of the column heading. Click the column heading again to toggle the sort order between ascending and descending.
- To sort a **secondary column**, **Shift+click** the column heading. Two tick marks appear to the right of the column heading. **Shift + click** the column heading again to toggle the sort order between ascending and descending. For example, the following list is sorted first by Status and then by Product.

Defects - (42 items, 1 selected)							
View Add Edit Delete Filter: Not Filtered							
No.	Summary	Type	Priority	Status	Comment	Product	
11	A third test of this ...	Crash - Data ...	Immediate	Open (Re-open...		Product A	
18	The restricted vie...	Crash - Data ...	Future Rele...	Open (Re-open...		Product A	
24	My reports no long...	Crash - Data ...	Immediate	Open (Re-open...	Mitchell, Abe	Product A	

Changing column widths

To make a column wider or narrower:

- 1 Move the cursor to the divide bar located between the column headings.

The cursor changes to a **resize** cursor.

- 2 Click and drag the divide bar to change the width of the column to the left of the divide bar.

Removing columns

- 1 Right-click the column heading you want to remove.
- 2 Select **Remove Column** from the shortcut menu.

Printing

Note: If you do not want to print every record in the list, select the items you want to print on the list window. Make sure you select the **Only Print Selected Items** check box on the Print Options dialog box!

- 1 Choose **File > Print** or click the **Print** toolbar button.

The Print Options dialog box opens.

- 2 Select print options.

- **Print as list** prints all the records in a list format.
- **Print as detail** prints the details for each record.
- **Create report file from template** lets you print a report based on a previously created template. After choosing this option, click **Save** (the Print buttons changes to a Save button). The Select Report Template dialog box opens. Select the report template you want to use and click **Open**. The Save Report As dialog box opens. Select a directory and enter a filename. The report is saved as a text document.

- 3 Click **Print**.

You can also click **Preview** to open the report in preview mode.

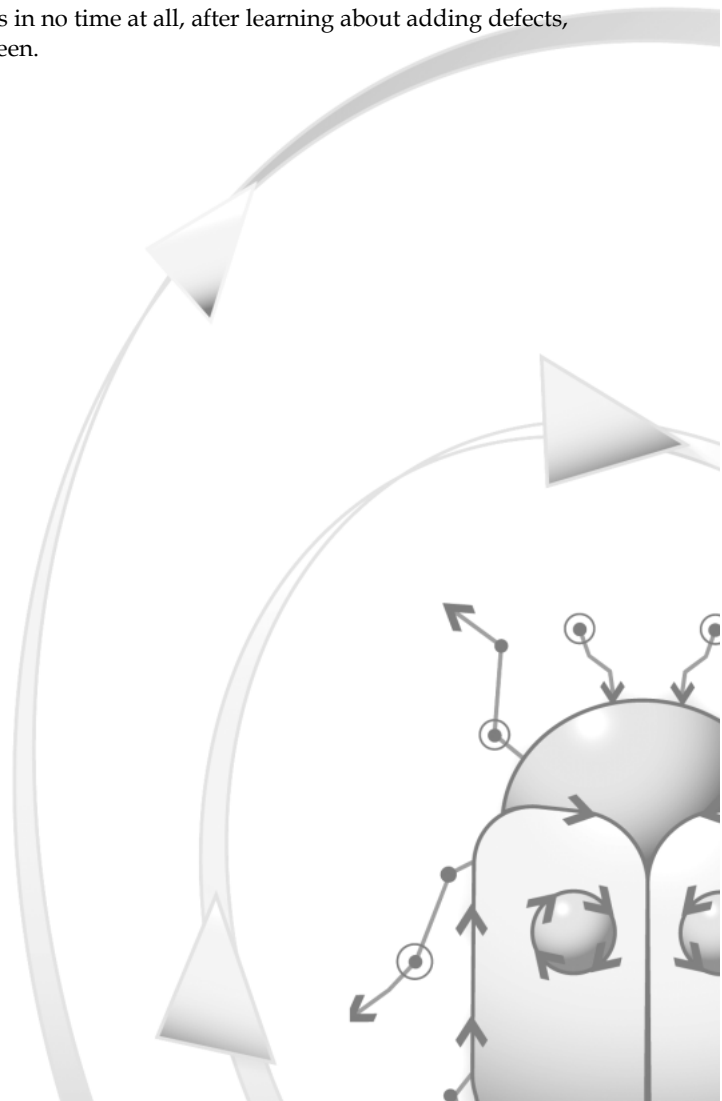
Chapter 5

Working with Defects

Squash the bugs...

...and move on! You'll be tracking defects in no time at all, after learning about adding defects, deleting defects, and everything in between.

- About defects, 32
- Adding defects, 32
- Adding additional defect reports, 36
- Attaching files, 37
- Finding defects, 37
- Using advanced find, 38
- Viewing defects, 40
- Viewing attached files, 41
- Editing defects, 42
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- Assigning defect numbers, 46
- Renumbering defects, 46
- Changing bulk fields, 46
- Deleting additional defect reports, 52
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About defects

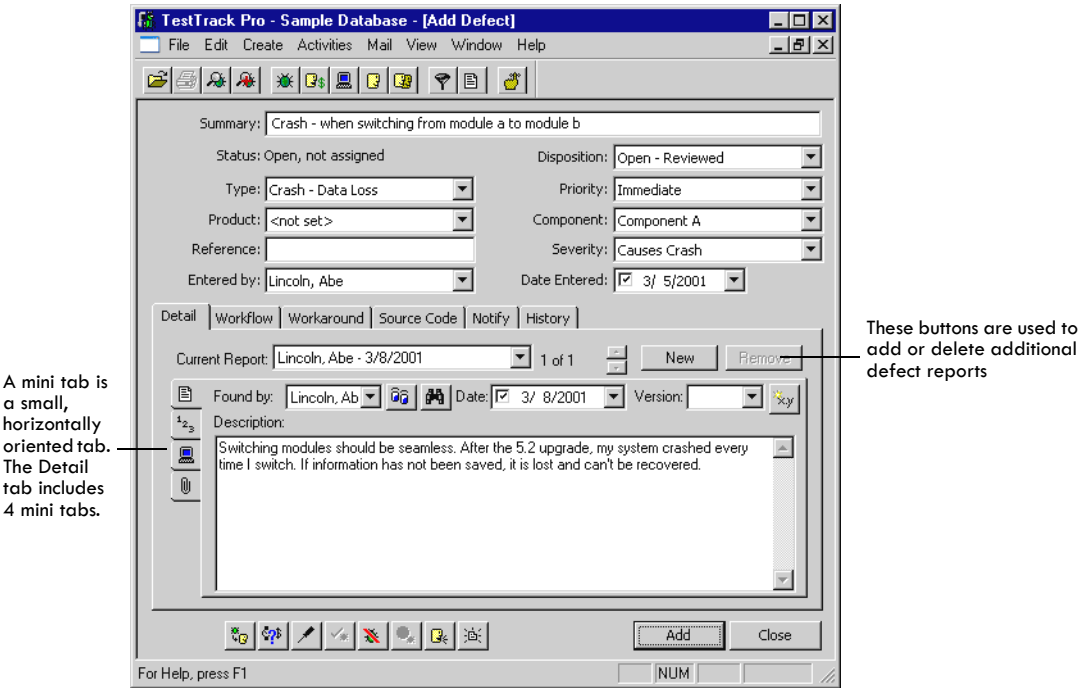
A defect is a bug, enhancement, change request, question, or any other product-related issue you need to track and resolve. It can be as simple as a typo in a Help file or as complicated as a system crash. Depending on your needs, you can configure complex tracking methods or simply use TestTrack Pro as a “to do” list.

Adding defects

- 1
- Choose **Create > Defect** or click **Add** on the Defects list window.

The Add Defect dialog box opens. This dialog box includes the following tabs: Detail, Workflow, Workaround, Source Code, Notify, History, and an optional Custom Fields tab.

The Detail tab includes 4 mini tabs: Found By, Reproduce, Computer Config, and Attachments.



Note: The **New** and **Remove** buttons on the Detail tab are used to add or remove additional defect reports. See [Adding additional defect reports](#), page 36.

2 Enter the information in the top portion of the Add Defect dialog box.

- Enter a defect **summary**. You can enter up to 255 characters.
- **Status** displays the what state the defect is in and whether it is assigned.
- Select the defect **disposition**.
- Select the defect **type**.
- Select the defect **priority**.
- Select the **product**.
- Select the **component**.
- Optionally enter a **reference** number pertinent to the defect.
- Select the defect **severity**.
- **Entered by** defaults to the current user or you can select another user.
- **Date Entered** defaults to the current date or you can enter another date.

3 Enter the information on the **Detail: Found by** mini tab.

- **Found by** defaults to the current user or you can select another user. To search for a user or customer, click the **Find** button located next to the **Found by** field. Enter the search criteria. If matching users or customers are found, select one to populate the **Found by** field.
- **Date** defaults to the current date or you can enter another date.
- Select the **version** of the software containing the defect.
- Enter a detailed defect **description**.

Click to search for a user or customer. Select the user or customer to populate the Found by field.

- 4
- Enter the information on the **Detail: Reproduce** mini tab.
- Select a **reproduced** level.

■ Enter the detailed **steps to reproduce** the defect. This information helps programmers, testers, etc., fix and test the defect.

Detail

Workflow

Workaround

Source Code

Notify

History

Current Report:

Lincoln, Abe - 3/8/2001

1 of 4

New

Remove

Reproduced:

Always

Steps to Reproduce:

Start application. Enter data in module a. Click Switch button and select module b. Watch the system crash.

- 5
- Enter the information on the **Detail: Computer Config** mini tab.
- Select a **computer configuration**. The default is the current user's configuration.

■ Enter information about **other hardware and software** that could be affecting the problem.

Detail

Workflow

Workaround

Source Code

Notify

History

Current Report:

Lincoln, Abe - 3/8/2001

1 of 4

New

Remove

Computer Config:

Current Windows Test

Other Hardware and Software:

scanner

- 6
- If necessary, attach a file to the defect using the **Detail: Attachments** mini tab. For more information, see [Attaching files](#), page 37.

Attachments:

File Name	Last Modified	Size
TestApp	11/5/2002	766

Attach

Remove

View

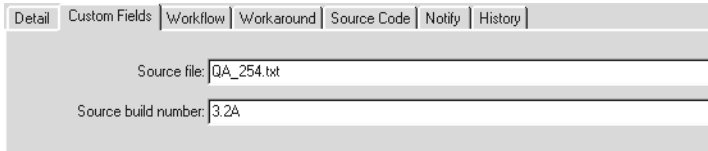
Extract...

Open...

- 7 Optionally, click the **Custom Fields** tab.

Note: You may not have access to this tab, depending on your security permissions and the database configuration.

If a database uses custom fields, up to two custom fields may be displayed in the main area of the Add Defect dialog box. Custom fields can also all be displayed on the Custom Fields tab – make sure you click this tab to enter or check custom field information.



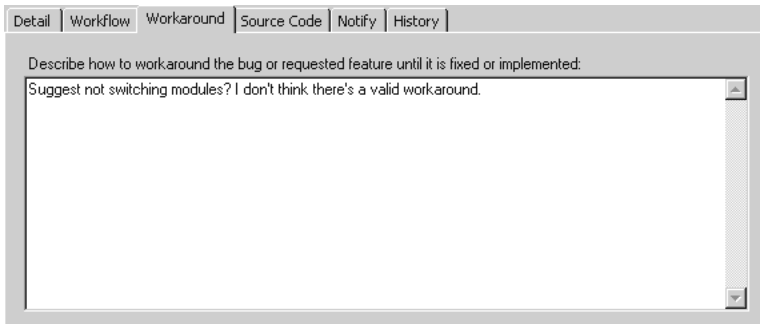
The screenshot shows the 'Custom Fields' tab selected in a dialog box. The tab bar at the top includes 'Detail', 'Custom Fields', 'Workflow', 'Workaround', 'Source Code', 'Notify', and 'History'. Below the tab bar, there are two text input fields. The first field is labeled 'Source file:' and contains the text 'QA_254.txt'. The second field is labeled 'Source build number:' and contains the text '3.2A'.

- 8 Skip the **Workflow** tab.

This tab is populated with defect event information and is useful when editing or viewing defects.

- 9 Click the **Workaround** tab.

Enter a workaround solution for the bug that can be used until it is fixed or implemented.



The screenshot shows the 'Workaround' tab selected in the dialog box. The tab bar at the top includes 'Detail', 'Workflow', 'Workaround', 'Source Code', 'Notify', and 'History'. Below the tab bar, there is a text area with the prompt 'Describe how to workaround the bug or requested feature until it is fixed or implemented:'. The text area contains the text 'Suggest not switching modules? I don't think there's a valid workaround.' and has a vertical scrollbar on the right side.

- 10 Skip the **Source Code** tab.

This tab is used for SCC application functions. Most users do not attach source code files while adding defects. For more information, see [Chapter 11, “Integrating SCC applications,”](#) page 103.

11 Click the **Notify** tab.

- To add users or customers to the notification list, click **Add**.
- Select the users or customers from the Add Mail Recipients dialog box and click **Add**.
- To remove users, highlight the user /customer and click **Remove**.

Detail | Workflow | Workaround | Source Code | **Notify** | History

Users and customers in the following list will be notified whenever this defect changes:

Send mail to:

- Customer, John
- Dyle, Olive
- Sailorman, Popeye

Add Remove

12 Skip the **History** tab.

This tab is populated with defect historical information and is useful when editing or viewing defects.

13 When you finish entering information, click **Add** on the Add Defect dialog box.

The defect is added to the database.

Adding additional defect reports

Users, customers, or beta sites often report the same defect. To eliminate duplicates in your database, you should add the defect once and add all additional reports to the same defect.

- 1** Edit the defect you want to add an additional report to.
- 2** Choose **Activities > New Reported By**.

You can also click **New** on the Detail tab.

- 3** Enter the additional report information.

For more information, see [Adding defects, page 32](#).

- 4** Click **OK** when you finish adding the additional report.

Note: The Detail tab includes a counter. If a defect is reported multiple times, the counter increases and shows the number of times the defect is reported.

Attaching files

When you add a defect, you can attach related files. For example, if a defect is corrupting a file, you can attach the corrupt data file for reference. If you want to point out a cosmetic changes to a dialog box, you can attach a screen shot that includes the changes.

Tip: You can attach multiple files to a defect. You can also attach zipped files.

- 1 Select the defect you want to attach a file to.
- 2 Choose **Edit > Edit Defect**.
- 3 On the Detail tab, click the **Attachments** mini tab.
- 4 Click **Attach**.

The Attach File dialog box opens.

- 5 Navigate to the directory containing the file, select the file and click **Open**.

The file is attached to the defect.

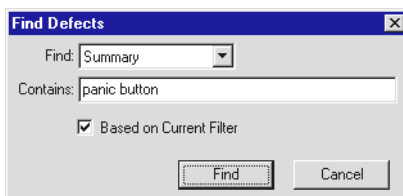
Finding defects

You can search against the summary field, the description field, or all notes. If you do not have security access to these fields, the Find Defects command is disabled.

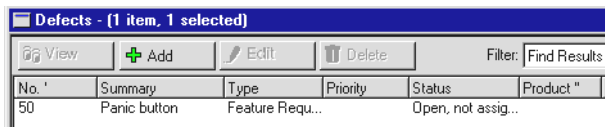
Tip: If you know the number of a defect, you can jump directly to that defect. Choose **Edit > Go To Defect Number**, enter the defect number, and click **OK**.

- 1 Choose **Edit > Find Defects**.
- The Find Defects dialog box opens.
- 2 Select the search field from the **Find** list.
- Fields you have security access to are listed.
- 3 Enter the text you want to search for in the **Contains** field.

Select **Based on Current Filter** if you only want to search the filtered defects.



- Click **Find**. If matching defects are found, the search results are displayed on the Defects list window. Notice the **Find Results** filter is applied.



- If matching defects are not found, a warning message opens. Click **OK**.

You return to the Defects list window, which is empty since no defects matched the search criteria. Notice the **Find Results** filter is applied.

Go to command

If you know the number of a specific defect, use the go to command to quickly find the defect.

- Choose **Edit > Go To Defect Number**.

The Go To Defect Number dialog box opens.

- Enter the defect number and click **OK**.

The corresponding defect is opened.

Using advanced find

Advanced find lets you perform a more powerful search using filters and Boolean logic. You can also search on multiple restrictions. For more information, see [Chapter 7, "Using Filters," page 71](#).

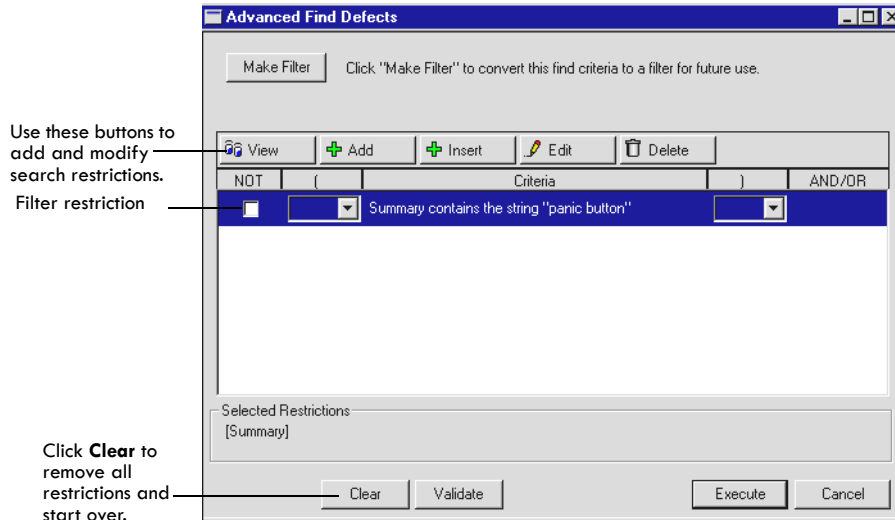
- Choose **Edit > Advanced Find Defects** or click the **Advanced Find** toolbar button.

The Advanced Find Defects dialog box opens.

Note: If the defects are filtered, and you choose **Advanced Find**, the Advanced Find Defects dialog box is populated with the filter restrictions. Click **Clear** to remove the restrictions.

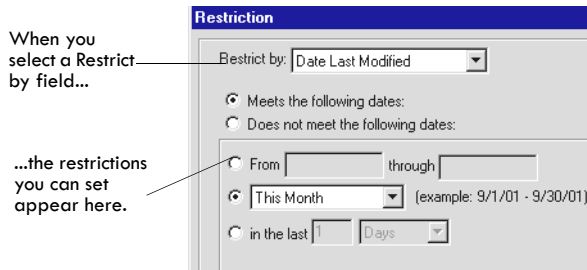
- 2 Click **Add** to add a search restriction.

The Restriction dialog box opens.



- 3 Select the **Restrict By** field.

When you select a **Restrict By** field, the restrictions you can set for the field appear in the Restrictions box.



- 4 Select the restriction options.

The restriction is added to the search.

- 5 Click **OK**.

You return to the Advanced Find Defects dialog box.

- 6 Optionally, select NOT/AND/OR operators and parentheses to build the boolean logic for the filter. For more information, see [About Boolean searches](#), page 75.

- 7 Click **Validate** to validate the search criteria.
 - If the criteria is valid, click **OK**.
 - If the criteria is not valid, an error message opens. Click **OK** to return to the Advanced Find Defects dialog box and correct the error.
 - Click **Clear** to clear all restrictions and start over.
- 8 Click **Make Filter** to save the search criteria as a filter. For more information, see [Creating filters, page 72](#).
- 9 When you finish adding restrictions and the criteria is validated, click **Execute**.
- 10 If matching defects are found, the search results are displayed on the Defects list window. Notice the **Find Results** filter is applied.
- 11 If matching defects are not found, a warning message opens.

You return to the Defects list window, which is empty because matching defects were not found. Notice the **Find Results** filter is applied.

Viewing defects

- 1 Select the defect on the Defects list window.
- 2 Choose **Edit > View Defect** or click **View** on the Defect list window.

The View Defect dialog box opens. All fields are read-only.

Click to view information about the customer or user who found the defect. The corresponding View dialog box opens.

Click the arrows to move to the next or previous defect record.

View Defect #178

Summary: Crash - when switching from module a to module b

Status: Open, not assigned Disposition: Open - Reviewed

Type: Crash - Data Loss Priority: Immediate

Product: <not set> Component: Component A

Reference: Severity: Causes Crash

Entered by: Lincoln, Abe Date Entered: 3/ 5/2001

Detail | Custom Fields | Workflow | Workaround | Source Code | Notify | History

Current Report: Lincoln, Abe - 3/8/2001 1 of 4 New Remove

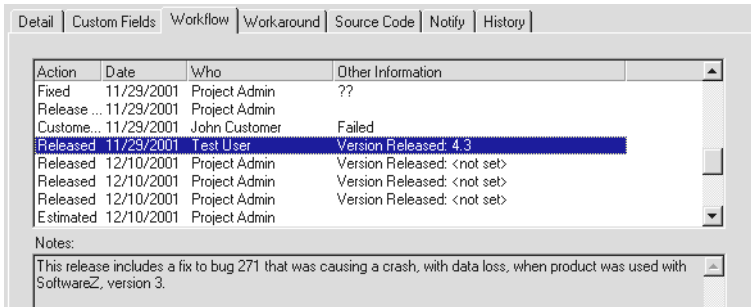
Found by: Lincoln, Abe Date: 3/ 8/2001 Version: %y

Description:
Switching modules should be seamless. After the 5.2 upgrade, my system crashed every time I switch. If information has not been saved, it is lost and can't be recovered.

OK

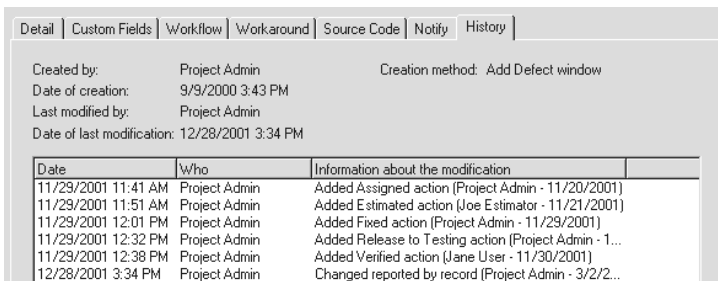
3 Click the **Workflow** tab.

This tab includes an overview of where the defect is in the workflow, what defect actions were assigned, who the actions were assigned to, and any comments or additional information a user entered.



4 Click the **History** tab.

Each time a defect action is assigned, TestTrack Pro adds this information to the defect's history. The History tab includes who created the defect, when the defect was created, the creation method, who last modified the defect, and the date of the last modification.



5 Click **OK** to close the View Defect dialog box.

Viewing attached files

You can view text files and bitmap files without extracting the files.

- 1 Select the defect with the attached file you want to view.
- 2 Choose **Edit > Edit Defect**.
- 3 On the Detail tab, click the **Attachments** mini tab.
- 4 Select the attached file and click **View**.

The text file or graphics file is displayed.

Editing defects

- 1 Select the defect on the Defects list window.
- 2 Choose **Edit > Edit Defect** or click **Edit** on the Defects list window.

The Edit Defect dialog box opens.

Summary: Clicking the exit button in component A causes a crash

Status: Closed (Verified) Disposition: Open - Reviewed

Type: Crash - Data Loss Priority: Before Alpha

Product: Product Z Component: <not set>

Reference: Severity: No Workaround

Entered by: Pooka, Harvey Date Entered: 4/ 2/2002

Detail Custom Fields Workflow Workaround Source Code Notify History

Current Report: Customer, John - 4/1/2002 1 of 7 New Remove

Found by: Customer, John Date: 4/ 1/2002 Version: 1.5

Description:

When selecting the exit button, which should have saved automatically and exited the component screen, a crash occurred.

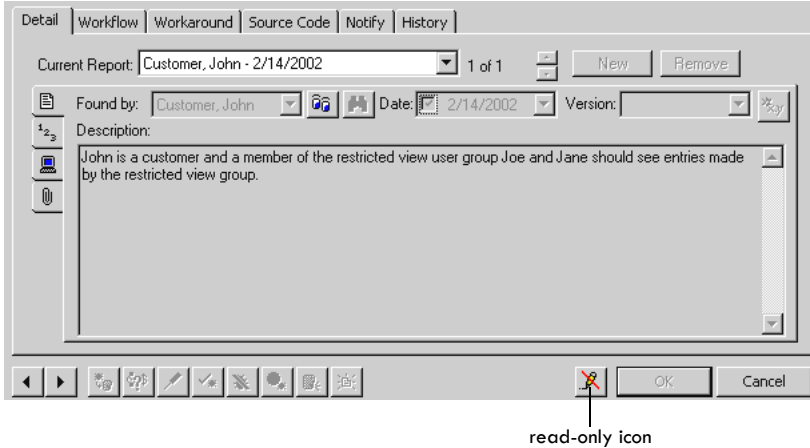
See "steps to reproduce"

OK Cancel

These shortcut buttons are used to edit customer/user information and search for customers/users.

Click the arrows to move to the next or previous defect record.

If another user is editing a defect you open, a **read-only** icon opens next to the **OK** button. **Click** the icon to see who is editing the record. When the user finishes, the icon closes and the record is updated.



Note: TestTrack Pro checks the database every 10 seconds for changes. Read-only records become available as soon as users finishes editing the records.

- 3 Make any changes and click **OK**.

Your changes are saved.

Opening attached files

Open saves a copy of an attached file and opens it with the application used to create it. For example, if a customer sends a Microsoft Word document, TestTrack Pro can open the file in Word.

- 1 Select the defect you want to extract an attached file from.
- 2 Choose **Edit > Edit Defect**.
- 3 On the Detail tab, click the **Attachments** mini tab.
- 4 Select the attached file and click **Open**.

The Save and Open Extracted File As dialog box opens.

- 5 Select the file location and enter a file name.
- 6 Click **Save**.

The file is extracted and opened.

Extracting attached files

Extract saves a copy of an attachment. For example, if a customer attaches a corrupted data file to a defect, you can extract the file to a specific folder.

- 1 Select the defect you want to extract an attached file from.
- 2 Choose **Edit > Edit Defect**.
- 3 On the Detail tab, click the **Attachments** mini tab.
- 4 Select the attached file and click **Extract**.

The Save Extracted File As dialog box opens.

- 5 Select the file location, enter a file name, and click **Save**.

The file is extracted to the folder you selected. You can now open the file.

Duplicating defects

Note: Depending on your security level, you may not have access to this command.

If you are adding defects with the same basic information, you can save time by duplicating and editing a defect.

- 1 Select the defect on the Defects list window.
- 2 Choose **Edit > Duplicate Defects**.

TestTrack Pro duplicates the defect and assigns a new defect number. The duplicated defect is added to the Defects list window.

- 3 Edit the defect and save your changes.

Merging defects

Merging defects helps avoid confusion and keep your database organized. For example, two defects report the same issue. JoeDeveloper is assigned one defect and JaneDeveloper is assigned the other one. The developers are working on the same issue and do not realize it.

- 1 Select the defects on the Defects list window.

To select a range of defects, **click** the first defect in the range, then **Shift+click** the last defect. To select multiple defects not in a range, **Ctrl+click** each defect.

- 2 Choose **Edit > Merge Defects**.

A warning message opens, letting you know the defects will be merged and deleted from the database.

3 Click **OK**.

The defects are merged.

- The resulting defect assumes the lowest defect number and the type, priority, and severity of that defect. All defect information is retained as **multiple defect records**. For example, if you merge three defects, the Detail tab shows three defect records. Each defect record includes the original defect information.
- If one or more fields conflict, you are prompted to view the merged defect.

Editing additional defect reports

1 Select the defect with the record you want to edit on the Defects list window.

If you are on the Edit Defect dialog box, **skip** to step 3.

2 Choose **Edit > Edit Defect** or click **Edit** on the Defects list window.

The Edit Defect dialog box opens.

3 Click the **Detail** tab and select the report you want to edit.

Select the report
you want to edit.

You can also use
these buttons to move
through the reports.

4 Make any changes and click **OK**.

Deferring defect numbering

Note: You may not have access to this administrator command.

Deferred defect numbering lets you store new defects in the database and number them after confirming they are unique defects. When deferred defect numbering is active, new defects have a dash instead of a defect number. You should periodically review unnumbered, or deferred, defects and assign defect numbers, merge them with existing defects, or delete them.

1 Select **Edit > Options > Database Options**.

The Database Options dialog box opens.

2 Click the **Defects** tab and select the deferred numbering options.

Assigning defect numbers

- 1 Select the unnumbered defect on the Defects list window.
- 2 Choose **Activities > Defect Actions > Assign Defect Numbers**.

The defect is assigned the next defect number.

Renumbering defects

Note: You may not have access to this administrator command.

Over the duration of your project, you may delete or merge defects that leave gaps in the defect numbers sequence. Or, at the start of a new development cycle, you may want to purge all closed defects from the project and use it as a fresh starting point for testing. In both cases, you will need to renumber defects.

- 1 Select the defect you want to renumber and choose **Activities > Defect Actions > Renumber Defect**.

The Renumber Defects dialog box opens. The starting number is set to the next available defect number.

- 2 Enter an unused defect number and click **OK**.

The Renumber Defects dialog closes and the defect is renumbered.

- If the renumbered defect number is higher than the next available defect number, the next available defect number is set to one higher than the renumbered defect. For example, if you renumber a defect to 1200, the next defect added will be 1201.
- If you renumber the entire defect list, you still need to set the next available defect number to one greater than the highest defect number.

Changing bulk fields

Admin: The following security options must be enabled to access this command: Edit Defect, Edit Database Options, and Import from XML.

You can quickly, and easily, update multiple records in the TestTrack Pro database. Use this command to replace values for specific fields, search for and replace strings in text fields, or add text.

You can replace values for the following field types: General, Reported By, Steps to Reproduce, Computer Config, Defect Actions, and Custom Fields. For example, you can change the disposition for 100 records to *on hold*. Or you can change the *Found by User* for specific records.

Replacing general field values

- 1 Select the defects on the Defects list window.

2 Choose **Activities > Bulk Field Changes**.

The Bulk Field Changes dialog box opens with the **General** tab selected.

The screenshot shows the 'Bulk Field Changes' dialog box with the 'General' tab selected. The dialog has a title bar with a close button. Below the title bar are tabs: 'General', 'Reported By', 'Steps to Reproduce', 'Computer Config', 'Defect Actions', and 'Custom Fields'. The 'General' tab contains a section titled 'General Defect Fields'. It includes a 'Summary' text field, a radio button group for 'Prepend' (selected) and 'Append', a 'Summary text:' label, a 'Replace' text field containing 'screen', a 'With' text field containing 'dialog', and several dropdown menus: 'Type' (set to '<Do not change>'), 'Priority' (set to '<Do not change>'), 'Product' (set to '<Do not change>'), 'Component' (set to 'Component 1'), 'Entered by' (set to '<Do not change>'), 'Severity' (set to '<Do not change>'), 'Disposition' (set to '<Do not change>'), and 'Date Entered' (set to '<not set>'). At the bottom right are 'OK' and 'Cancel' buttons.

3 Make any changes.

- To add text, enter the text in the **Summary** field and select **Prepend** or **Append**.
- To replace text, enter the string you want to search for in the **Replace** field and the string you want to replace it with in the **With** field.
- To change values, select the value from the corresponding list.

4 Click **OK**.

You are prompted to confirm the changes.

5 Click **OK**.

The records are updated.

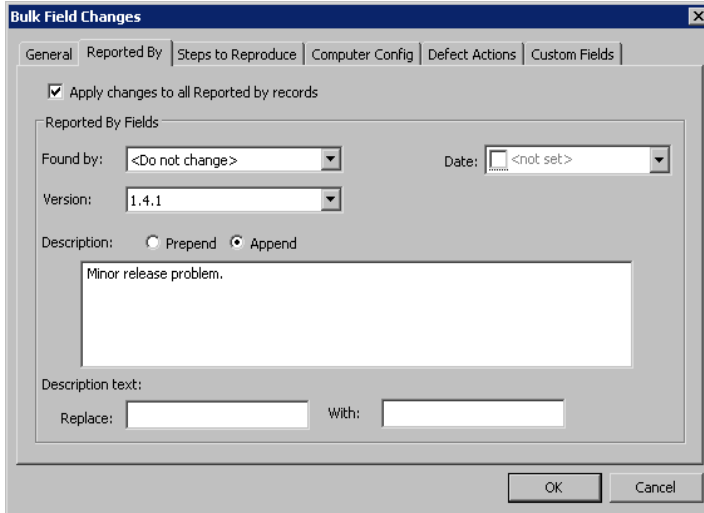
Replacing reported by field values

1 Select the defects on the Defects list window.

2 Choose **Activities > Bulk Field Changes**.

The Bulk Field Changes dialog box opens.

3 Click the **Reported By** tab.



The image shows the 'Bulk Field Changes' dialog box with the 'Reported By' tab selected. The 'General' tab is also visible. The 'Reported By' tab contains the following fields and options:

- ☒ Apply changes to all Reported by records
- Reported By Fields**
 - Found by: <Do not change>
 - Date: <not set>
 - Version: 1.4.1
- Description:
 - ☐ Prepend
 - ☒ Append
- Description text:
 - Minor release problem.
- Replace: [] With: []

Buttons: OK, Cancel

4 Make any changes.

- If defects are reported multiple times and you want to change all reported by records, select **Apply changes to all Reported by records**. If you only want to change the first reported by record, do not select this option. For example, you want to change the Found by user for 50 defects. Some of the defects were reported multiple times. Select this option to change the found by user for each reported by record. If you do not select this option, only the first reported by record is changed.
- To change values, select the value from the corresponding list.
- To add text, enter the text in the **Description** field and select **Prepend** or **Append**.
- To replace **Description** text, enter the string you want to search for in the **Replace** field and the string you want to replace it with in the **With** field.

5 Click **OK**.

You are prompted to confirm the changes.

6 Click **OK**.

The records are updated.

Replacing steps to reproduce field values

- 1 Select the defects on the Defects list window.
- 2 Choose **Activities > Bulk Field Changes**.

The Bulk Field Changes dialog box opens.

- 3 Click the **Steps to Reproduce** tab.

The image shows a screenshot of the 'Bulk Field Changes' dialog box with the 'Steps to Reproduce' tab selected. The dialog has a title bar with a close button. Below the title bar are several tabs: 'General', 'Reported By', 'Steps to Reproduce' (which is active), 'Computer Config', 'Defect Actions', and 'Custom Fields'. Inside the 'Steps to Reproduce' tab, there is a checkbox labeled 'Apply changes to all Reported by records' which is checked. Below this is a section titled 'Steps to Reproduce Fields' containing a dropdown menu labeled 'Reproduced:' with the value '<Do not change>'. Underneath is a section labeled 'Steps to Reproduce:' with two radio buttons: 'Prepend' (which is selected) and 'Append'. Below these is a large empty text area. At the bottom of the tab is a section labeled 'Steps to Reproduce text:' with two text input fields: 'Replace:' containing the word 'machine' and 'With:' containing the word 'computer'. At the bottom right of the dialog are 'OK' and 'Cancel' buttons.

- 4 Make any changes.
 - If defects are reported multiple times and you want to change all reported by records, select **Apply changes to all Reported by records**. If you only want to change the first reported by record, do not select this option.
 - To change values, select the value from the corresponding list.
 - To add text, enter the text in the **Steps to Reproduce** field and select **Prepend** or **Append**.
 - To replace **Steps to Reproduce** text, enter the string you want to search for in the **Replace** field and the string you want to replace it with in the **With** field.
- 5 Click **OK**.

You are prompted to confirm the changes.

- 6 Click **OK**.

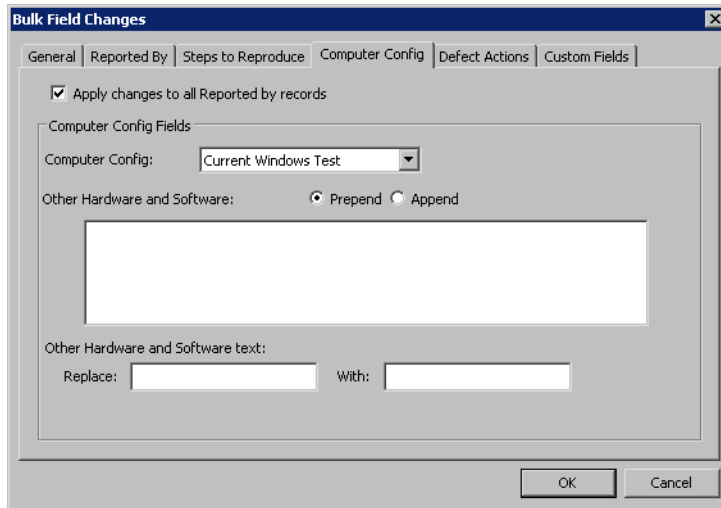
The records are updated.

Replacing computer config field values

- 1 Select the defects on the Defects list window.
- 2 Choose **Activities > Bulk Field Changes**.

The Bulk Field Changes dialog box opens.

- 3 Click the **Computer Config** tab.



The image shows the 'Bulk Field Changes' dialog box with the 'Computer Config' tab selected. The 'General' tab is also visible. The 'Apply changes to all Reported by records' checkbox is checked. The 'Computer Config Fields' section contains a dropdown menu for 'Computer Config' set to 'Current Windows Test'. The 'Other Hardware and Software' section has radio buttons for 'Prepend' (selected) and 'Append'. Below this is a large text area. The 'Other Hardware and Software text:' section has 'Replace:' and 'With:' labels followed by text input fields. At the bottom are 'OK' and 'Cancel' buttons.

- 4 Make any changes.
 - If defects are reported multiple times and you want to change all reported by records, select **Apply changes to all Reported by records**. If you only want to change the first reported by record, do not select this option.
 - To change values, select the value from the corresponding list.
 - To add text, enter the text in the **Other Hardware and Software** field and select **Prepend** or **Append**.
 - To replace **Other Hardware and Software** text, enter the string you want to search for in the **Replace** field and the string you want to replace it with in the **With** field.
- 5 Click **OK**.

You are prompted to confirm the changes.

- 6 Click **OK**.

The records are updated.

Replacing defect actions field values

- 1 Select the defects on the Defects list window.
- 2 Choose **Activities > Bulk Field Changes**.

The Bulk Field Changes dialog box opens.

3 Click the **Defect Actions** tab.

The screenshot shows the 'Bulk Field Changes' dialog box with the 'Defect Actions' tab selected. The 'Defect Action' dropdown is set to 'Interview', and the 'Apply to all Interview actions' checkbox is checked. Under 'Interview Fields', the 'Interview By' dropdown is set to '<not set>' and the 'Date' dropdown is also set to '<not set>'. The 'Assigned To' section has two radio buttons: 'Do not change' (unselected) and 'The following users:' (selected). Below 'The following users:' is a dropdown menu showing '(Flintstone, Fred; Tierant, Anr)'. The 'Notes' section has two radio buttons: 'Prepend' (selected) and 'Append' (unselected). Below these is a text area containing the text 'Fred and Anna must interview all candidates.' The 'Notes text:' section has two input fields: 'Replace:' and 'With:'. The 'Custom Fields:' section is empty. At the bottom are 'OK', 'Cancel', and 'Help' buttons.

4 Select a **Defect Action**.

The fields on this tab change based on the defect action you select.

5 Make any changes.

- To change all defect actions select **Apply to all actions**. Do not select this option if you only want to change the newest defect action. For example, you want to change Assign By user for 100 defects. Most of these defects were manually assigned multiple times. Select this option to change each assign by record for all defects. If you do not select this option, only the newest assign by record is changed.
- To change values, select the value from the corresponding list.
- To add text, enter the text in the **Notes** field and select **Prepend** or **Append**.
- To replace **Notes** text, enter the string you want to search for in the **Replace** field and the string you want to replace it with in the **With** field.

6 Click **OK**.

You are prompted to confirm the changes.

7 Click **OK**.

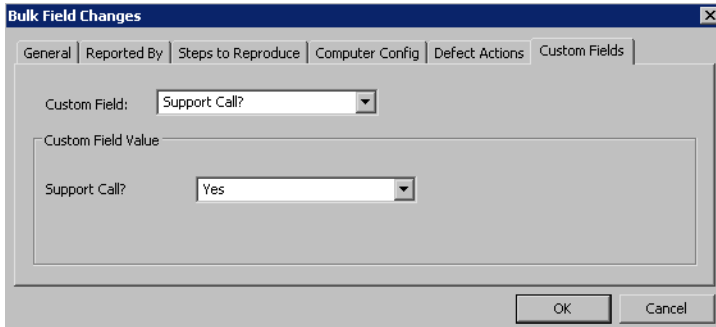
The records are updated.

Replacing custom field values

- 1 Select the defects on the Defects list window.
- 2 Choose **Activities > Bulk Field Changes**.

The Bulk Field Changes dialog box opens.

- 3 Click the **Custom Fields** tab.



- 4 Select a **Custom Field**.

The fields on this tab change based on the custom field you select.

- 5 Make any changes.

- 6 Click **OK**.

You are prompted to confirm the changes.

- 7 Click **OK**.

The records are updated.

Deleting additional defect reports

- 1 Edit the defect you want to add an additional report to.
- 2 Choose **Activities > Delete Reported By**.

You can also click **Remove** on the Detail tab.

The additional report is deleted.

Deleting attached files

- 1 Select the defect you want to delete an attached file from.

Make sure you want to permanently delete the attached file. You are not prompted to confirm the deletion and the action cannot be undone.

- 2 Choose **Edit > Edit Defect**.
- 3 On the Detail tab, click the **Attachments** mini tab.
- 4 Select the file you want to delete and click **Remove**.

The attached file is deleted.

Deleting defects

- 1 Select the defect on the Defects list window.
You can select more than one defect to delete.
- 2 Choose **Edit > Delete Defect** or click **Delete** on the Defects list window.
You are prompted to confirm the deletion.
- 3 Click **OK**.

Chapter 6

Managing the Workflow

Jump into the workflow...

...and track your defects from beginning to end!

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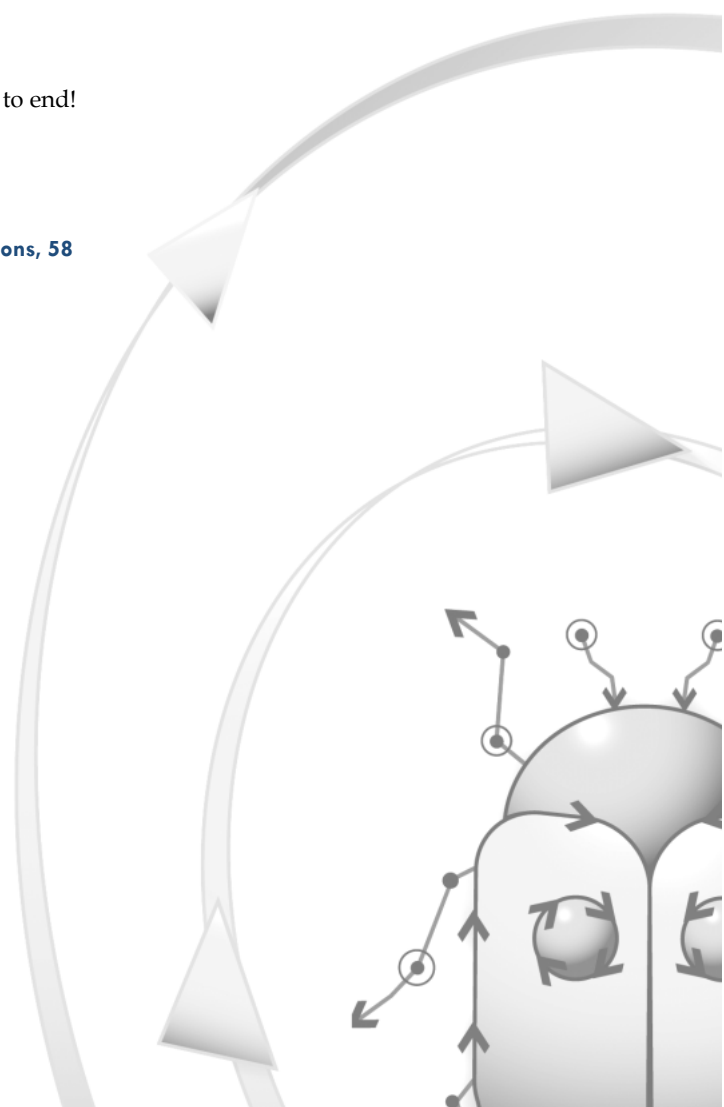
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About the workflow

The workflow consists of states, events, and transitions that define the path a defect takes from initial reporting to resolution. To move a defect from state to state, the defect is assigned to users who perform the action assigned to them. The status field, on the Edit Defect dialog box, corresponds to the defect state. The status field changes based on the defect action. For example, the status field changes to Fixed when a defect moves to the Fixed state.

TestTrack Pro's workflow can be used "out of the box" to track defects and other issues such as change requests. It can also be customized to follow your company's business processes. Workflows can include custom events and actions that support your company's business processes.

Note: The TestTrack Pro administrator is generally responsible for configuring the workflow. See [Chapter 14, "Customizing the Workflow," page 141](#) for information.

About the default workflow

The information in this section is specific to the default workflow. The default workflow, which can be used out of the box, includes the following events:

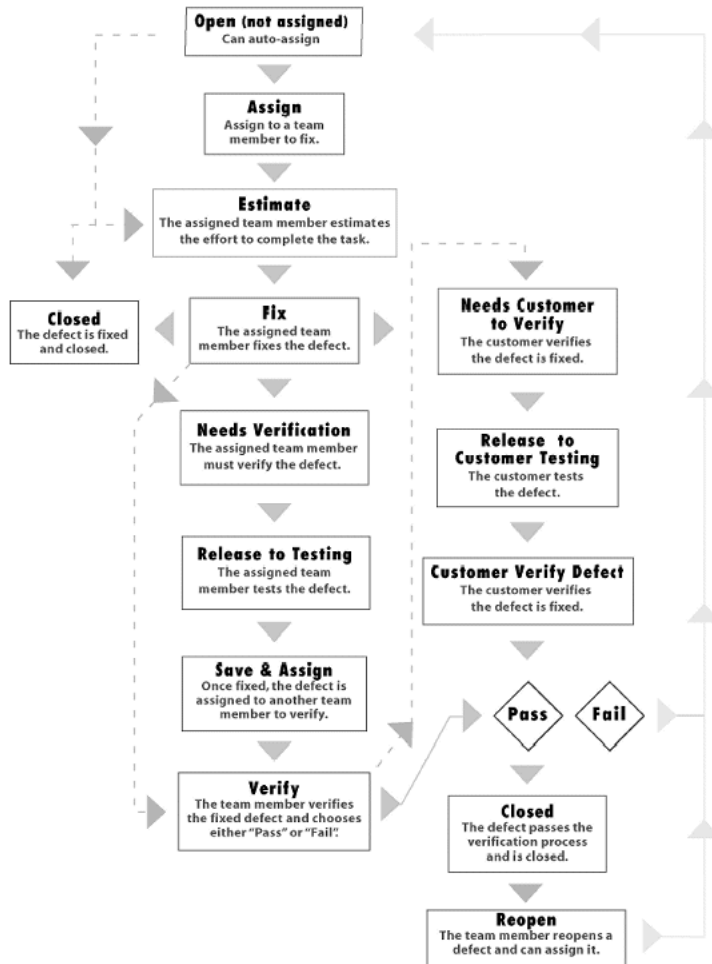
- Assign
- Estimate
- Fix
- Verify
- Force Close
- Reopen
- Release Notes
- Comments

The steps you follow, and the defect actions you use, can differ depending on your company's workflow.

Defect workflow example

The following graphic shows a more complex workflow process:

Extended Defect Workflow



Understanding defect assignments and actions

Accountability, such as who is responsible for estimating, fixing, or verifying a fix, is an important component of defect tracking. Defects, and defect actions, are assigned to users to ensure someone is accountable and to move the defect through the workflow states. Depending on your security level and the database configuration, you may not have access to all, or some, of the defect actions.

Each company uses defect assignments and actions differently. One company might let all users assign defects. Another company might only want team leads to be responsible for assigning defects while the users are responsible for such things as estimating a fix, fixing a defect, or verifying the fix.



Following is an example of how defect actions move a defect through the lifecycle:







The Lead Engineer is notified when a defect is added to the database. After reviewing the defect, the Lead Engineer assigns the defect to Joe Estimator. The next day, Joe Estimator is notified of the defect assignment in two ways: the Assigned defect indicator appears next to the defect on the Defects list window and he receives an email notification. Joe Estimator opens the defect and views the Workflow tab. He can view who assigned the defect and what action he needs to perform. He decides what needs to be done to fix the defect and enters the estimate information.

The Lead Engineer is notified that the defect changed. She reviews Joe Estimator’s work and assigns the fix to Jane User. When Jane User logs in, she is notified of the defect assignment. Jane User opens the defect and views the Workflow tab. She can view her current defect assignment information and also view Joe Estimator’s notes – this helps her begin working on the fix. When Jane User finishes entering the Fix Defect information, the Lead Engineer is notified that the defect changed. The Lead Engineer reviews Jane User’s fix and assigns the next defect action. This process continues until the defect is fixed, tested, verified, and closed.

Defect action toolbar

Each defect action has a corresponding button located in a toolbar. You can also access defect action commands from the **Activities** menu.

Icon	Action	Description
A small icon showing a green person figure with a yellow speech bubble, representing the 'Assign' action.	Assign	Assign the defect to a user
A small icon showing a blue question mark inside a circle, representing the 'Estimate' action.	Estimate	Estimate the time needed to fix a defect or implement a new feature

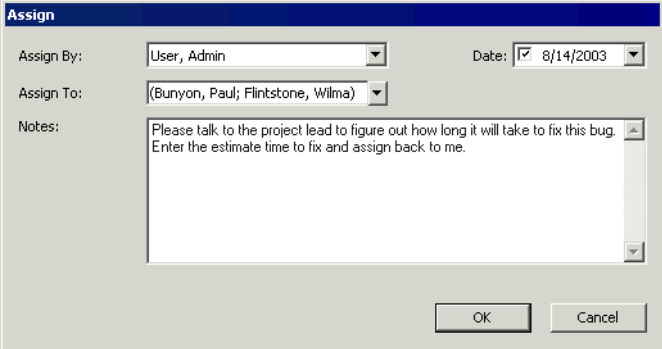
Icon	Action	Description
	Fix	Describe the fix
	Verify	Verify the defect fix
	Force close	Close the defect
	Re-open	Re-open a closed defect
	Release Notes	Add release notes to a defect
	Comments	Add comments to the defect

Note: Custom icons can be added to the defect action toolbar. See [Adding events, page 146](#) for more information.

Assigning defects

- 1 Choose **Activities > Assign** or click the **Assign Defect** toolbar button.

The Assign dialog box opens.



The Assign dialog box is a standard Windows-style window with a title bar that says "Assign". It contains several input fields and a text area. At the top, there are two dropdown menus: "Assign By:" with the value "User, Admin" and "Date:" with the value "8/14/2003". Below these is another dropdown menu for "Assign To:" with the value "(Bunyon, Paul; Flintstone, Wilma)". Underneath the dropdowns is a large text area labeled "Notes:" containing the text: "Please talk to the project lead to figure out how long it will take to fix this bug. Enter the estimate time to fix and assign back to me." At the bottom right of the dialog box are two buttons: "OK" and "Cancel".

- 2 Select an **Assign by** user.

This field defaults to the logged in user.

- 3 Select an **Assign to** user.

- 4 The **Date** defaults to the current date.

You can enter another date or click the calendar to select a date.

- 5 Enter any **Notes** about the defect you are assigning or any additional information.
- 6 Click **OK**.



When you are assigned a defect, open the defect (Edit/View Defect dialog box) and click the **Workflow** tab. You can review the assignment notes. The person who assigned you the defect should let you know what defect action you are responsible for and provide any detailed information. If you need more information about the defect, select **Mail > Reply to Submitter**. The Send Mail dialog box opens. Enter your question and click **Send**.

Estimating fix time

- 1 Choose **Activities > Estimate** or click the **Estimate Fix** toolbar button.

The Estimate Problem dialog box opens.

A screenshot of the 'Estimate' dialog box. The title bar is blue with the word 'Estimate' in white. The dialog has a light gray background. At the top, there are two rows of controls. The first row has 'Estimate By:' followed by a dropdown menu showing 'Flintstone, Wilma'. The second row has 'Date:' followed by a checkbox (checked) and a date dropdown showing '8/18/2003'. Below these is a row with 'Effort:' followed by a text box containing '3' and the word 'hours'. Underneath is a large text area labeled 'Notes:' containing the text '3 hours max - just need to change a few things in the xyz file'. At the bottom, there is a section titled 'Custom Fields' with two rows: 'Version:' with a dropdown showing '1.7', and 'Completion Dat...' with a checkbox (checked) and a date dropdown showing '8/20/2003'. At the very bottom are 'OK' and 'Cancel' buttons.

- 2 Select an **Estimate by** user.

This field defaults to the logged in user.

- 3 The **Date** defaults to the current date.

You can enter another date or click the calendar to select a date.

- 4 Enter the **Estimated effort** in hours to complete the fix.
- 5 Enter any **Notes** about the estimate.
- 6 Select a **Version** number.

You may also be able to enter a version number.

- 7 Enter an estimated **Completion Date**.

You can also click the calendar to select a date.

- 8 Click **OK**.

You can also click **Save & Assign** to save the defect action and assign the defect to a user.

Fixing defects

- 1 Choose **Activities > Fix** or click the **Describe Fix** toolbar button.

The Fix dialog box opens.

The screenshot shows the 'Fix' dialog box with the following details:

- Fixed By:** Flintstone, Fred
- Date:** 9/4/2003
- Resulting State:** Fixed
- Effort:** 2.5 hours
- Notes:** unhandled exception was causing the crash
- Custom Fields:**
 - ☐ Affects Documentation
 - ☐ Affects Test Plan
 - Resolution...**: Code Change
 - Version:** 1.7
- Buttons:** OK, Cancel

- 2 Select a **Fixed By** user.

This field defaults to the current user.

- 3 The **Date** defaults to the current date.

You can enter another date or click the calendar to select a date.

- 4 Optionally select a **Resulting State**.

Note: You can only select a state if the workflow allows multiple resulting states.

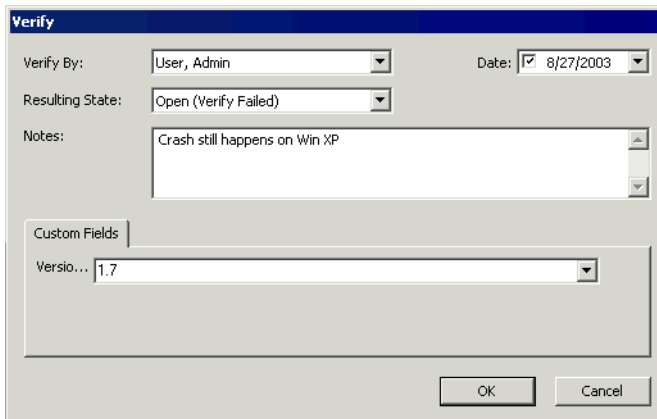
- 5 Enter the fix **Effort**.
- 6 Enter any **Notes** about the fix.
- 7 Select the **Affects Documentation** check box or the **Affects Test Plan** check box if either applies.
- 8 Select a fix **Resolution**.
- 9 Select the **Version** number.
You may also be able to enter a version number.
- 10 Click **OK**.

Verifying a fix

Note: A defect must be fixed before it can be verified.

- 1 Choose **Activities > Verify** or click the **Verify Fix** toolbar button.

The Verify dialog box opens.



- 2 Select a **Verify By** user.

This field defaults to the logged in user.

- 3 The **Date** defaults to the current date.

You can enter another date or click the calendar to select a date.

- 4 Optionally select a **Resulting State**.

Note: You can only select a state if the workflow allows multiple resulting states.

- 5 Enter any **Notes** about the verification.

If a fix fails, record why the fix failed. It can help with future planning.

- 6 Select the **Version** number.

You may also be able to enter a version number.

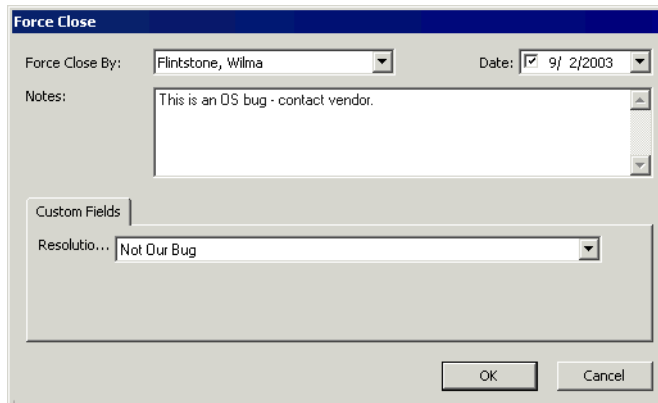
- 7 Click **OK**.

Closing defects

The resolution of some defects does not follow the standard fix/verify model. For example, a defect might not actually be a bug. In this situation, you can close the defect immediately.

- 1 Choose **Activities > Force Close** or click the **Force Close Defect** toolbar button.

The Force Close dialog box opens.

The image shows a 'Force Close' dialog box. It has a title bar 'Force Close'. Inside, there are two dropdown menus: 'Force Close By:' with the value 'Flintstone, Wilma' and 'Date:' with the value '9/ 2/2003'. Below these is a 'Notes:' text area containing the text 'This is an OS bug - contact vendor.' At the bottom, there is a 'Custom Fields' section with a dropdown menu labeled 'Resolutio...' showing the value 'Not Our Bug'. At the very bottom are 'OK' and 'Cancel' buttons.

- 2 Select a **Force Close By** user.

This field defaults to the logged in user.

- 3 The **Date** defaults to the current date.

You can enter another date or click the calendar to select a date.

- 4 Enter any **Notes** about why the defect was closed.

- 5 Select a **Resolution**.

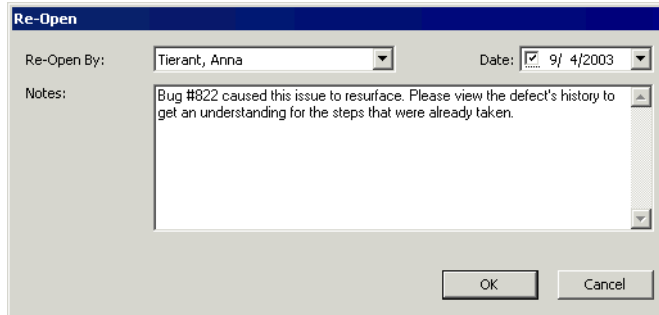
- 6 Click **OK**.

Re-opening defects

Occasionally, a closed or verified defect resurfaces. To return the defect to the open state and restart its lifecycle, you need to **re-open** the defect.

- 1 Choose **Activities > Re-open** or click the **Re-open Defect** toolbar button.

The Re-Open dialog box opens.

The Re-Open dialog box has a title bar 'Re-Open'. It contains a 'Re-Open By:' dropdown menu with 'Tierant, Anna' selected. To the right is a 'Date:' dropdown menu with a calendar icon and '9/ 4/2003' selected. Below these is a 'Notes:' text area containing the text: 'Bug #822 caused this issue to resurface. Please view the defect's history to get an understanding for the steps that were already taken.' At the bottom right are 'OK' and 'Cancel' buttons.

- 2 Select a **Re-Open By** user.

This field defaults to the logged in user.

- 3 The **Date** defaults to the current date.

You can enter another date or click the calendar to select a date.

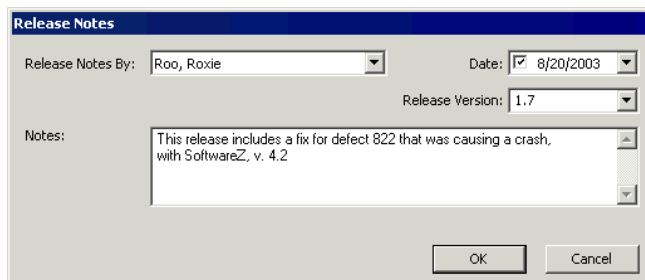
- 4 Enter any **Notes** about why the defect was re-opened.
- 5 Click **OK**.

Adding release notes to a defect

Note: You can add multiple release notes to a defect.

- 1 Choose **Activities > Release Notes** or click the **Release Notes** toolbar button.

The Release Notes dialog box opens.

The Release Notes dialog box has a title bar 'Release Notes'. It contains a 'Release Notes By:' dropdown menu with 'Roo, Roxie' selected. To the right is a 'Date:' dropdown menu with a calendar icon and '8/20/2003' selected. Below these is a 'Release Version:' dropdown menu with '1.7' selected. Below these is a 'Notes:' text area containing the text: 'This release includes a fix for defect 822 that was causing a crash, with SoftwareZ, v. 4.2'. At the bottom right are 'OK' and 'Cancel' buttons.

- 2 Select a **Release Notes By** user.

This field defaults to the logged in user.

- 3 The **Date** defaults to the current date.

You can enter another date or click the calendar to select a date.

- 4 Enter the **Release Version**.

- 5 Enter the release notes.

The notes are recorded with the defect history.

- 6 Click **OK**.

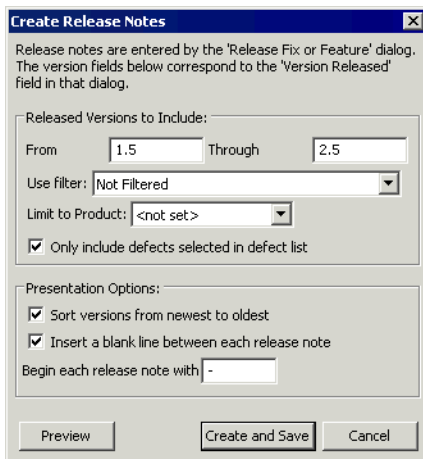
Generating release notes is a two-step process. After you add release notes to a defect, you need to generate the release notes file. You can insert this file in your Read-me file or use it to create a separate Release Notes guide. For more information, see [Creating release notes, page 65](#).

Creating release notes

Note: To generate release notes for just a **few defects**, select those defects on the Defects list window. If you do not know which defects contain release notes, add a column to the Defects list window to display the **Has Release Notes?** field.

- 1 Choose **Activities > Create Release Notes**.

The Create Release Notes dialog box opens.



- 2 Enter the **From version** and the **Through version** you want to include in the release notes.

If the release notes are specific to one version, enter the same version number in both fields.

- 3 Select a filter from the **Use Filter** list to generate release notes for defects that meet the filter criteria.
- 4 Select a product from the **Limit to Product** list to generate release notes for a specific product.
- 5 Enter a character in the **Begin each release note with** field if you want each release note to start with the specific character (e.g., a bullet). You can also enter ASCII characters or leave the field empty.
- 6 Click **Preview**.

The Release Notes preview dialog opens. You can edit the release notes in the preview window.

- 7 Click **Create and Save** to save the release notes.

The Save Release Notes As dialog box opens.

- 8 Select the directory where you want to save the release notes and enter a file name. Click **Save**.

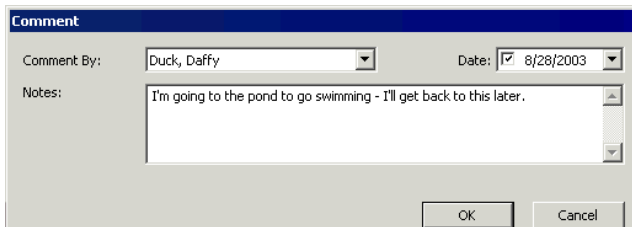
TestTrack Pro generates the release notes and saves the text file in the specified directory.

Adding comments

You can add comments to a defect to point something out to other users, clarify an issue, or just as a reminder. Other users can view your comments on the Workflow tab.

- 1 Choose **Activities > Comment** or click the **Add Comments** toolbar button.

The Comments dialog box opens.



- 2 Select a **Comment By** user.

This field defaults to the current user.

- 3 The **Date** defaults to the current date.

You can enter another date or click the calendar to select a date.

- 4 Enter the comments and click **OK**.

The comments are recorded with the defect history.

Note: To view defect comments, select the defect, click **View** or **Edit**, and then click the **Workflow** tab. All comments are included on the Workflow tab.

Viewing defect actions

You can view the defect action details.

- 1 Select the defect on the Defects list window.
- 2 Choose **Edit > Defect** or click **Edit** on the Defects list window.

The Edit Defect dialog box opens.

- 3 Click the **Workflow** tab.

This tab includes a list of all the defect actions.

Edit Defect #15

Summary: My reports no longer format correctly using IE 5.0

Status: Open (Re-Opened), assigned to Disposition: Open - Not Reviewed

Type: Crash - Data Loss Priority: Before Beta

Product: Product A Component: Component A

Reference: Severity: Causes Crash

Entered by: User, Admin Date Entered: 4/ 9/2002

Detail | **Workflow** | Workaround | Source Code | Notify | History

Action	Date	Who	Other Information
Force Cl...	3/7/2002	User, Admin	Resolution: Code Change
Re-Open	4/1/2002	Lincoln, Abe	
Assign	4/2/2002	Lincoln, Abe	Assign To: Bunyon, Paul
Comment	4/2/2002	Lincoln, Abe	

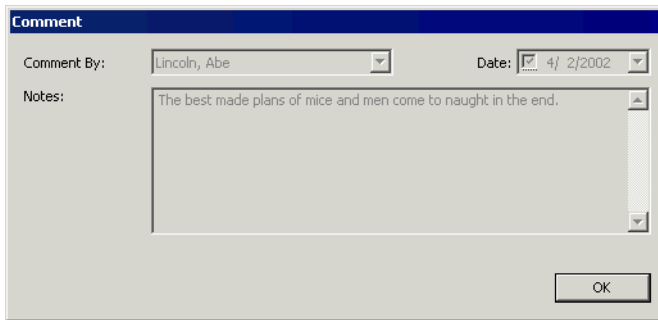
Notes:
The best made plans of mice and men come to naught in the end.

OK Cancel

- 4 Select the defect action you want to view.

- 5 Choose **Edit > View Action**.

A read-only dialog box for the defect action you chose opens. For example, the Verify Defect dialog box opens if you view a Verified action.



- 6 Click **OK** to close the dialog.

Editing defect actions

You can edit defect actions to add more information or correct mistakes. For example, a defect resolution affects documentation, but you forgot to select the Affects Documentation check box. You can edit the action to select the check box.

- 1 Select the defect on the Defects list window.
- 2 Choose **Edit > Defect** or click **Edit** on the Defects list window.

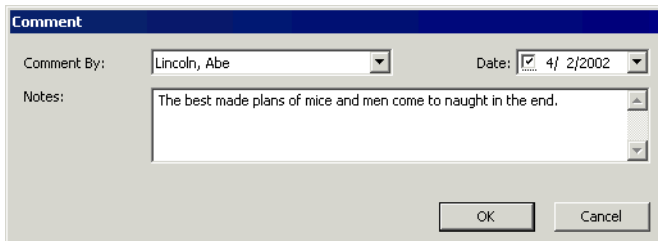
The Edit Defect dialog box opens.

- 3 Click the **Workflow** tab.

This tab includes a list of all the defect actions.

- 4 Select the defect action you want to edit.
- 5 Choose **Edit > Edit Action**.

A dialog box for the defect action you chose opens.



- 6 Make any changes and click **OK**.

Deleting defect actions

- 1 Select the defect on the Defects list window.
- 2 Choose **Edit > Defect** or click **Edit** on the Defects list window.

The Edit Defect dialog box opens.

- 3 Click the **Workflow** tab.

This tab includes a list of all the defect actions.

- 4 Select the defect action you want to delete.
- 5 Choose **Edit > Delete Action**.

You are prompted to confirm the deletion.

- 6 Click **OK**.

The defect action is deleted.

Replying to a defect submitter

If you need more information or have questions, you can send an email directly to the defect's submitter.

- 1 Select the defect on the Defects list window.
- 2 Choose **Mail > Reply to Submitter**.

The Reply to Submitter dialog box opens.

The screenshot shows a 'Send Mail' dialog box. The 'To' field is populated with 'Duck, Dafly' and has 'Add' and 'Remove' buttons. The 'Subject' field contains 'Re: Clicking the exit button in component A causes a crash'. The message body is a multi-line text area containing the following text: '>When selecting the exit button, which should have saved automatically and exited the component screen, a crash occurred.', '>', '>See "steps to reproduce"', and 'I need help reproducing this - steps are Mac specific'. At the bottom are 'Send' and 'Cancel' buttons.

- The **To** field is populated with the name of the user or customer who submitted the defect. You can also click Add to select additional users.
- The **Subject** field contains the defect's summary text.
- The message body contains the defect description.

- 3 Enter your question or the information you need to clarify.
- 4 Click **Send**.

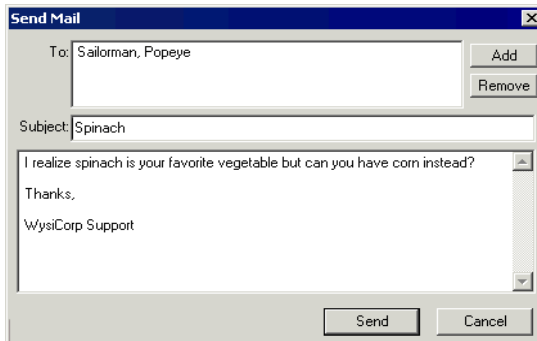
The email is sent.

Sending mail from TestTrack Pro

You can send email directly from TestTrack Pro. This lets you easily communicate with other users and customers, without switching to your email program.

- 1 Choose **Mail > Send Mail**.

The Send Mail dialog box opens.



- 2 Click **Add**.
- 3 Highlight the users/customers you want to send mail to and click **Add**.
- 4 Enter a subject and message.
- 5 Click **Send**.

The email is sent.

Chapter 7

Using Filters

Filter Out the Noise!

TestTrack Pro includes extensive filtering capabilities. You can use filters to sort defect records and list only those defects that meet the criteria you select. You can create a simple filter, for example a filter that only shows fixed defects.

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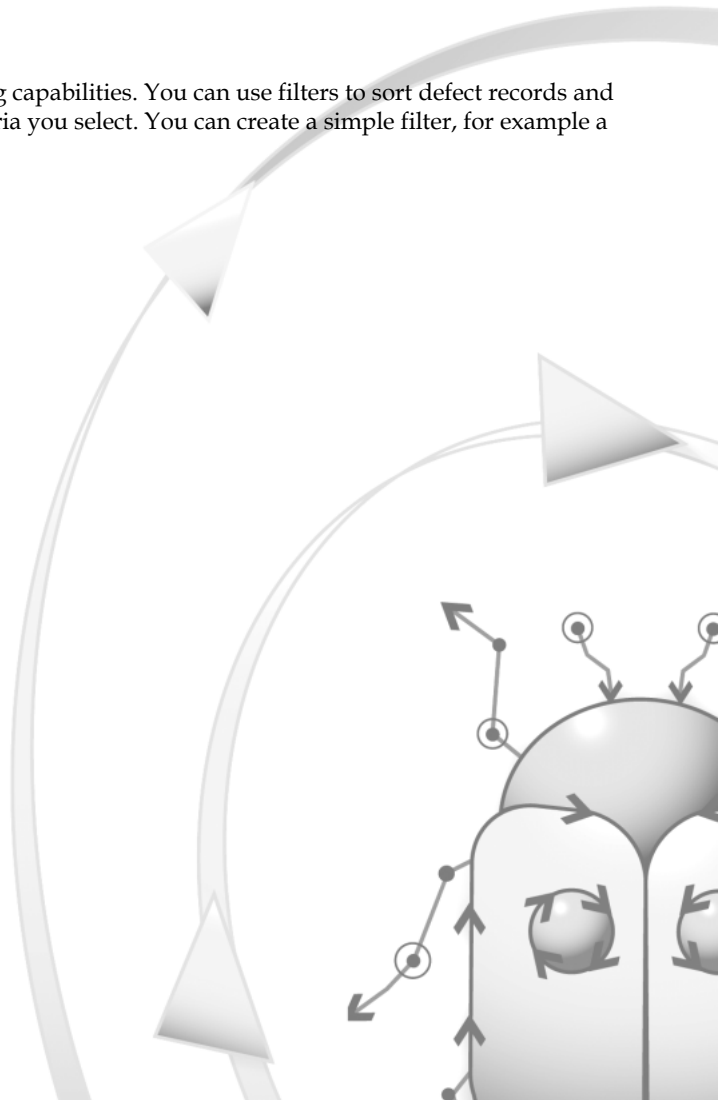
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Creating filters

If your database has a large number of defects, or you only need to work with certain types of defects, create a filter and use it to keep your defects list short and manageable.



Create custom filters to quickly view defect lists. For example, you can create a filter to track bugs by priority or a filter to track opens bugs that need to be fixed by a specific release, etc.

- 1 Choose **Create > Filter** or click **Add** on the Filters list window.

The Add Defect Filter dialog box opens.

- 2 Enter a **Name** and **Description**.

- 3 Select a **Share** option.

The default is private. If you share the filter, other users can edit the filter.

- 4 Click **Add** to add a filter restriction.

See [Adding restrictions](#), page 73 for more information.

- 5 Select NOT/AND/OR operators and parentheses to build the Boolean Logic for the filter (optional step).

The Boolean search criteria appear in the Selected Restrictions box at the bottom of the dialog box. For more information, see [About Boolean searches](#), page 75.

Use these buttons to add and modify filter restrictions.

The Boolean search criteria you selected is listed here.

Edit Defect Filter

Name: Share:

Description:

NOT	Criteria	AND/OR
<input type="checkbox"/>	<input type="text" value="Status is in list (Open; Open (Re-opened); Open (V..."/>	<input type="text" value="AND"/>
	<input type="text" value="Type is in list (Feature Request)"/>	

Selected Restrictions
[Status] AND [Type]

6 Click **Validate**.

- If the filter criteria is valid, click **OK**.
- If the filter criteria is not valid, an error message opens. Click **OK** to return to the Defect Filter dialog box and correct the error.
- Click **Clear** to clear all restrictions and start over.

7 Click **Add**.

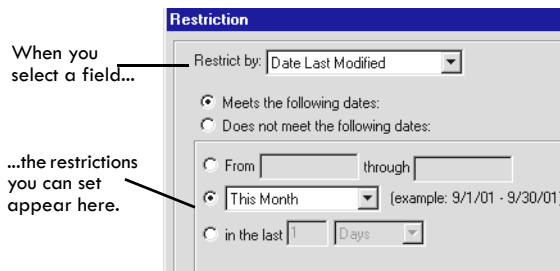
The Add Defect Filter dialog box clears and you can add another filter. Click **Close** when you finish adding filters.

Adding restrictions

1 Click **Add** on the Add Defect Filter or Edit Defect Filter dialog.

The Restriction dialog box opens.

2 Select the field you want to include in the filter from the **Restrict by** list.



Tip: Most defect actions include Notes fields. You can select the **All Action Notes** field from the Restrict by list to search these fields. After selecting **All Action Notes**, select an option, and enter the search text.

3 Select the restriction options.

The restrictions you can set changed based on the **Restrict by** field.

- When selecting restrictions options, **<Unknown>** represents an empty field. For example, if you select **<Unknown>** with Restrict by set to Assigned To, it is interpreted as “Show all defects not assigned to anyone.”
- If you are creating or editing restrictions with fields that include a text value, you can leave the text value empty. When the filter is applied, TestTrack Pro searches for the Restrict by field with an empty text value. This is useful if you are cleaning up your defect records and want to make sure that every defect includes a summary. Select **Restrict by: Summary** and leave the text value empty. When you apply the filter, all defects with an empty Summary field are listed.

- 4 Click **OK** to save the restriction.

You return to the Add Defect Filter dialog box.

Note: Repeat steps 1-4 to add additional restrictions to the filter.

Viewing restrictions

- 1 Select the restriction on the Add Defect Filter, Edit Defect Filter, or View Defect Filter dialog.
- 2 Click **View**.

The selected restriction opens in the Restriction dialog box. All fields are read-only and cannot be edited.

- 3 Click **OK** to close the Restriction dialog box.

Editing restrictions

- 1 Select the restriction on the Add Defect Filter or Edit Defect Filter dialog.
- 2 Click **Edit**.

The Restriction dialog box opens.

- 3 Make any changes and click **OK**.

The changes are saved and you return to the Advanced Find Defects dialog box.

Inserting restrictions

If a filter contains a large number of restrictions, you can insert a restriction in a specific position.

- 1 Select the restriction on the Add Defect Filter or Edit Defect Filter dialog.

The new restriction is inserted above the selected restriction.

- 2 Click **Insert**.

The Restriction dialog box opens.

- 3 Select the field you want to include in the restriction.
- 4 Select any options and enter the restrictions for the field.
- 5 Click **OK**.

The restriction is added.

Deleting restrictions

Note: You are **not prompted** to confirm the deletion and the action cannot be undone.

- 1 Select the restriction on the Add Defect Filter or Edit Defect Filter dialog.
- 2 Click **Delete**.

The restriction is deleted.

About Boolean searches

You can use Boolean logic to create complex and highly precise filters. Boolean logic uses three connecting operators (AND, OR, NOT) to narrow or broaden a search or to exclude a term from a search.

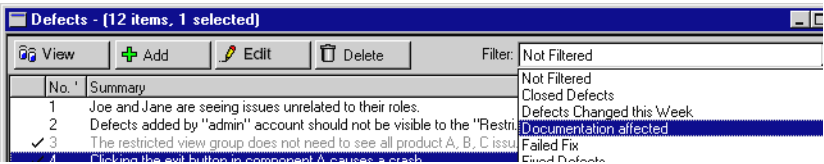
And is a **narrowing** term. When you use the “and” operator, the filter or search returns records that match **all** of the criteria you choose. For example, if you search for Component A AND Component B, TestTrack Pro only lists defects containing both components.

Or is a **broadening** term. When you use the “or” operator, the filter or search returns records that match **any** of the criteria you choose. For example, if you search for Component A OR Component B, TestTrack Pro lists defects in which either term is found.

Not is an **excluding** term. When you use the “not” operator, the filter or search returns records that **do not** contain any of the criteria you choose. For example, if you search for NOT Component A, TestTrack Pro lists all defects –except for those containing the term Component A.

Using filters

- 1 Select the filter from the **Filter** list on the Defects list window.



- 2 The filter is applied to the defects.
 - Defects that meet the filter criteria are listed on the Defects list window.
 - To return to a list of all defects, select **Not Filtered** from the Filter list.

Viewing filters

- 1 Select the filter on the Filters list window.
- 2 Choose **Edit > View Filter** or click **View** on the Filters list window.
The View Defect Filter dialog box opens. All fields are read-only.
- 3 Click **OK** when you are finished.

Editing filters

- 1 Select the filter on the Filters list window.
- 2 Choose **Edit > Edit Filter** or click **Edit** on the Filters list window.
The Edit Defect Filter dialog box opens.
- 3 Make any changes and click **OK**.
Your changes are saved and you return to the Filters list window.

Duplicating filters

- 1 Select the filter on the Filters list window.
- 2 Choose **Edit > Duplicate Filter**.
The filter is duplicated. A number is added to the end of the filter name. For example, if you duplicate Priority Filter 2 times, the duplicated filters are named Priority Filter 1 and Priority Filter 2.
- 3 Modify the duplicated filter and save your changes.

Deleting filters

- 1 Select the filter on the Filters list window.
You can select more than one filter to delete.
- 2 Choose **Edit > Delete Filter** or click **Delete** on the Filters list window.
You are prompted to confirm the deletion.
- 3 Click **OK**.
The filter is deleted.

Chapter 8

Managing Test Configs

Track the nuts and bolts!

It is important to pay attention to the computers defects are found on. Is it a hardware problem or a display driver bug? Track your test configurations and identify the patterns.

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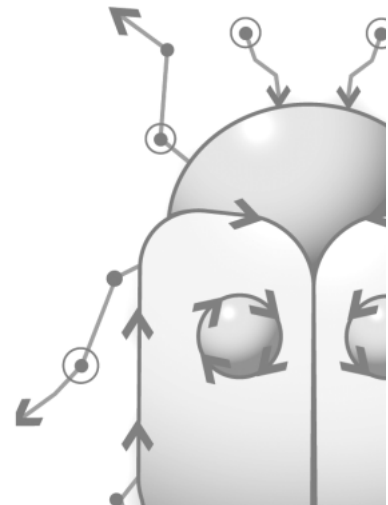
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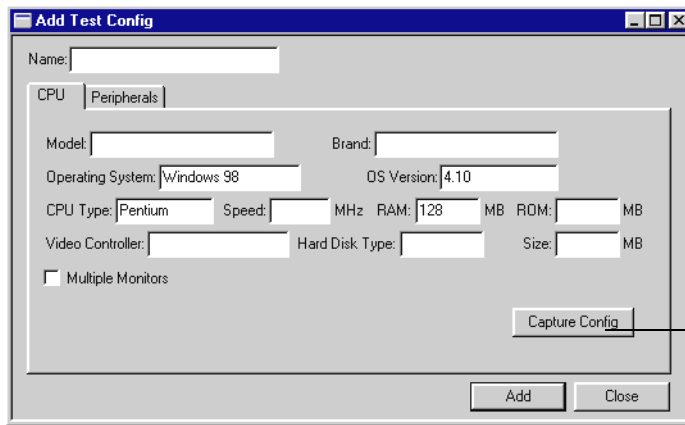
About test configs

A test configuration refers to a specific computer used for testing and the hardware and software found on this computer. You should track all your systems to see if bugs are computer-specific. Tracking test configurations helps you identify patterns in defects that may be related to specific hardware configurations or software configurations. You can verify that your application functions the same, or in an appropriately similar manner, across all supported platforms or configurations.

Adding test configs

- 1 Choose **Create > Test Config** or click **Add** on the Test Configs list window.

The Add Test Config dialog box opens with the **CPU** tab selected.



Click **Capture Config** to automatically capture some computer configuration information.

- 2 Enter a **Name** to uniquely identify the test config.
- 3 Enter the information on the CPU tab.
 - Click **Capture Config**. TestTrack Pro can automatically fill in some of the fields (for example, Operating System).
 - Enter information in the other CPU fields. This information is optional but you should provide as much detail as possible.
- 4 Click the **Peripherals** tab and enter the peripherals information.

These fields are optional but you should enter as much information as possible.

- 5 Click **Add**.

The Test Config is added.

Viewing test configs

- 1 Select the test config on the Test Configs list window.
- 2 Choose **Edit > View Test Config** or click **View** on the Test Configs list window.
The View Test Config dialog box opens. All fields are read-only.
- 3 Click **OK** when you are finished.
You return to the Test Configurations list window.

Editing test configs

- 1 Select the test config on the Test Configs list window.
- 2 Choose **Edit > Edit Test Config** or click **Edit** on the Test Configs list window.
The Edit Test Config dialog box opens.
- 3 Make any changes and click **OK**.

Duplicating test configs

- 1 Select the test config on the Test Configs list window.
- 2 Choose **Edit > Duplicate Test Config**.
The test configuration is duplicated. A number, incremented by 1, is added to the end of the test config name. For example, if you select and duplicate Eng-cube, the duplicated test config is named Eng-cube1.
- 3 Modify the duplicated test config and save your changes.

Deleting test configs

- 1 Select the test config on the Test Configs list window.
You can select more than one test config to delete.
- 2 Choose **Edit > Delete Test Config** or click **Delete** on the Test Configs list window.
You are prompted to confirm the deletion.
- 3 Click **OK**.

Chapter 9

Generating Reports

Analyze and Report!

You will be running reports in no time! TestTrack Pro makes reporting simple—point, click, print, and read. You can design and preview each report before printing. You can also share your report with other users or keep it private.

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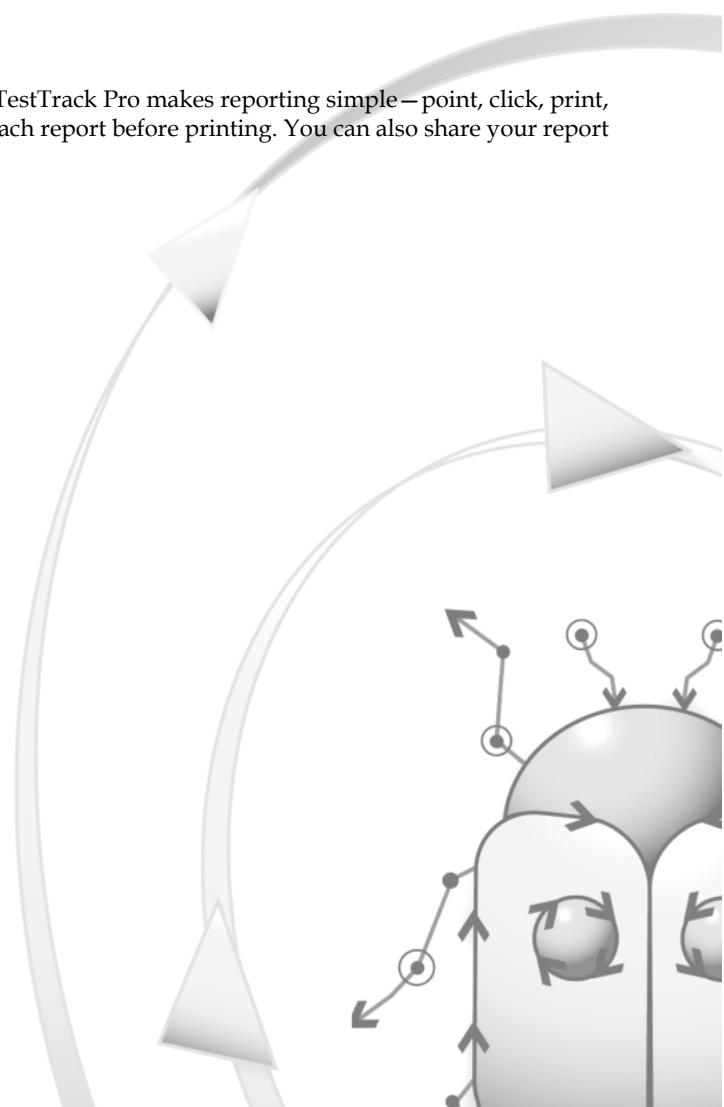
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About reports

Reports are used to analyze the data collected in your database. You can use filters to build reports that focus on the data you need. You can also share your reports with others or keep them private. You can create the following four kinds of reports:

- **Detail reports** include detailed information about defects, customers, users, user groups, or test configurations.
- **Distribution reports** include the distribution of defects. You can choose options such as defects found by user, defect status by component, etc. You can add a chart to the report for additional impact. For example, you could build a distribution report that shows the number of fixed defects for each user.
- **List reports** include summary information about defects, customers, users, user groups, or test configurations. You select the fields to include in the report.
- **Trend reports** include defect events over time. For example, how many defects have been fixed this week? You can add a chart to the report for additional impact. Use this report to determine how well you are managing defects.

Using stylesheets

Stylesheets are templates you can use to quickly generate formatted reports. Several Extensible Style Language (XSL) stylesheets are installed with TestTrack Pro to help you easily create reports with predefined layout and design options. The stylesheets are available to all TestTrack Pro users with access to the database.

Customizing stylesheets

You can customize an existing XSL stylesheet or create your own and add it to the TestTrack Pro database. Stylesheets are generally located in the **Program Files/TestTrack Pro/StyleSheets** directory or the **Program Files/Seapine/ TestTrack Pro/ Stylesheets** directory. Each report type has a corresponding folder in the Stylesheets directory.

- To customize an existing stylesheet, open the corresponding report folder, select the stylesheet, and modify it using a third-party tool, such as Altova's XML Spy.
- To add a new stylesheet, use a third-party tool to create the stylesheet. Copy the completed stylesheet to the corresponding report folder.
- To include an image with a stylesheet, copy the image to the **Images** folder in the TestTrack Pro directory. Add the following script to the stylesheet:

```
<img>
  <xsl:attribute name="src">
    <xsl:value-of select="external:get-server-image('imagename.gif')"/>
  </xsl:attribute>
</img>
```

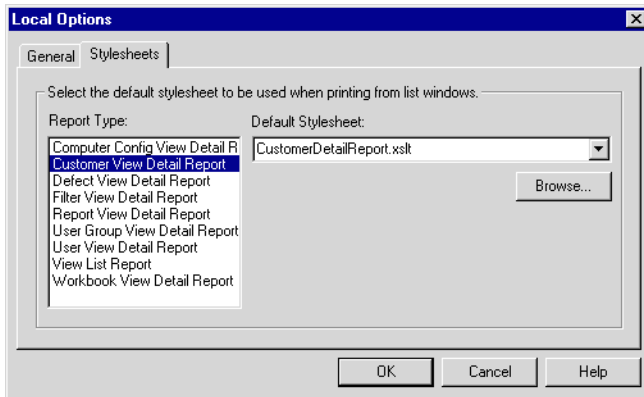
Setting default stylesheets

You can select default stylesheets to use when printing from list windows.

- 1 Choose **Edit > Options > Local Options**.

The Local Options dialog box opens.

- 2 Click the **Stylesheets** tab.



- 3 Select a **Report Type** from the list.

Each **Report Type** corresponds to a list window. For example, the **Filter View Detail Report** prints a detail report for all filters in the database.

- 4 Select a **Default Stylesheet** for the selected report or click **Browse** to use a customized stylesheet.
- 5 Click **OK**.

Refreshing stylesheet menus

The server periodically searches the database for new stylesheets and updates the stylesheet menu options. You can determine the frequency of this update by modifying your database options.

- 1 Choose **Edit > Options > Database Options**.
- 2 Click the **Reports** tab.
- 3 Select how often the server looks for new stylesheets.
- 4 Click **OK**.

Creating text file report templates

Note: The best way to customize a report to meet your requirements is to create a stylesheet. See [Using stylesheets, page 82](#) for more information.

You can create custom report templates using a text editor, TestTrack Pro field codes, and alphanumeric characters. You can even create a tab or comma-delimited document for use with other databases/tools.

- 1 Using Notepad, or another text editor, create the text document using field codes for TestTrack Pro-specific information. You can use other alphanumeric characters.

The report is formatted based on the text code layout. Field codes are replaced with the corresponding text. For example, you can set up the following report template:

```
%ASSD% - %ASST%  
-----  
%DESC%
```

This creates a report that includes the date the defect was most recently assigned, followed by a dash, followed by the user the defect is assigned to. The next line is a dashed line. On the next line is the defect description. This pattern repeats until all selected records are displayed.

Note: For a list and description of field codes, see [Appendix A, “Field Codes Reference” page 239](#).

- 2 Save the document.

You can now print a report based on the template you created.

Using text file report templates

- 1 Choose **File > Print**.

If you do not want to print every item in the list, select the items you do want to print. Make sure you select the **Only Print Selected Items** check box on the Print Options dialog box. If you apply a filter only the defects that pass the filter will be used as the basis of the ad hoc report.

- 2 Select **Create report file from template**.
- 3 Click **Save**.

The Select Report Template dialog box opens.

Note: Select **Text Files** or **All Files** from the **Files of type** list.

- 4 Select the report template you want to use and click **Open**.

The Save Report As dialog box opens.

- 5 Select a directory and enter a filename.
- 6 Click **Save**.

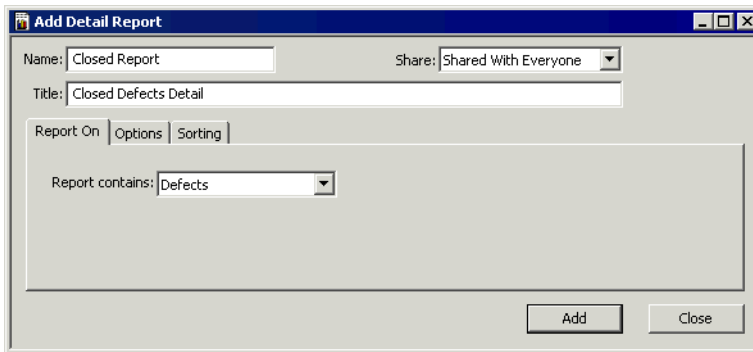
The report is saved as a text file.

Creating detail reports

- 1 Choose **Create > Report > Detail**.

You can also click **Add** on the Reports list window and select **Detail**.

The Add Detail Report dialog box opens.



- 2 Enter a **Name** and **Title**.

The title appears at the top of the report when it is viewed or printed.

- 3 Select a **Share** option.

If you share the report, users with the proper command-level security can edit the report. Select **Private** to protect your report.

- 4 Select the **Report On** options.

- Select the record type from the **Report contains** list.
- If you select **Customers**, **Users**, **User Groups**, **Customers**, or **Test Configs** you can build a report on all, or selected, records.

- 5 Click the **Options** tab.

- Select a **Stylesheet** or click **Browse** to use a customized stylesheet.
- Select a **Filter** if you are reporting on defects and only want to include filtered defects.

- Select **Print items on separate pages** to insert page breaks between each item in the report. Internet Explorer is the only browser that supports page breaks.

The screenshot shows the 'Add Detail Report' dialog box with the 'Options' tab selected. The 'Name' field is 'Closed Report' and the 'Share' dropdown is 'Shared With Everyone'. The 'Title' field is 'Closed Defects Detail'. The 'Report On' tab is also visible. In the 'Options' section, the 'Stylesheet' dropdown is 'DefectDetailReport.xslt' with a 'Browse...' button next to it. The 'Filter' dropdown is 'Not Filtered'. The checkbox 'Print items on separate pages' is checked. At the bottom are 'Add' and 'Cancel' buttons.

- 6 Click the **Sorting** tab.

Select a Primary or Secondary sort column and set the column sort order.

The screenshot shows the 'Add Detail Report' dialog box with the 'Sorting' tab selected. The 'Name' and 'Share' fields are the same as in the previous screenshot. The 'Title' field is 'Closed Defects Detail'. In the 'Sorting' section, the 'Primary Sort Column' dropdown is 'Defect Number' with radio buttons for 'Ascending' (selected) and 'Descending'. The 'Secondary Sort Column' dropdown is 'Defect Summary' with radio buttons for 'Ascending' (selected) and 'Descending'. At the bottom are 'Add' and 'Cancel' buttons.

- 7 Click **Add**.

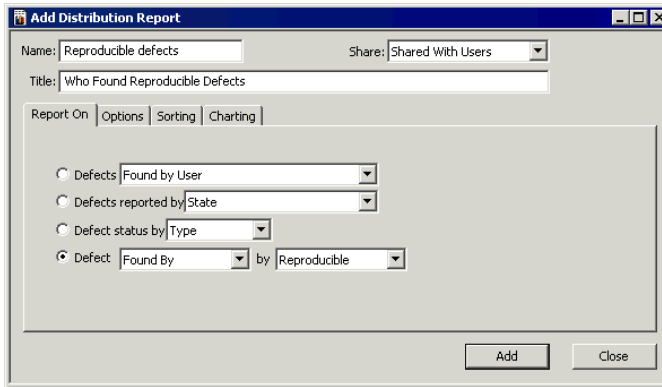
The report is added.

Creating distribution reports

- 1 Choose **Create > Report > Distribution**.

You can also click **Add** on the Reports list window and select **Distribution**.

The Add Distribution Report dialog box opens.



- 2 Enter a **Name** and **Title**.

The title appears at the top of the report when it is viewed or printed.

- 3 Select a **Share** option.

If you share the report, users with the proper command-level security can edit the report. Select **Private** to protect your report.

- 4 Select the **Report On** options.

- Select **Defects <field> by User** to build a report that includes action by user. For example, Defects Found by User.
- Select **Defects report by <field>** to build a report that includes the number of defects based on the chosen category. For example, Defects reported by Status.
- Select **Defect status by <field>** to build a report that includes the defect status based on the chosen category. For example, Defects status by Type.
- Select **Defect <field> By <field>** to build a report that includes the defect status using two criteria. For example, Defect Type by Priority.

- 5 Click the **Options** tab.

- Select the report date parameters for your report using the **Period** and **through** lists.
- Select a **Stylesheet** or click **Browse** to use a customized stylesheet.

- Select a **Filter** if you are reporting on defects and only want to include filtered defects.
- Select **Include totals** to include totals for the selected report items. If you select this option, you can add the totals to a chart using the **Data to Graph** list on the **Graphing** tab.
- Enter a number in the **Records per printed page** field to insert page breaks between rows in the report.

The screenshot shows the 'Add Distribution Report' dialog box with the 'Options' tab selected. The 'Name' field contains 'Reproducible defects' and the 'Share' dropdown is set to 'Shared With Users'. The 'Title' field contains 'Who Found Reproducible Defects'. The 'Report On' tab is also visible. The 'Period from' dropdown is set to '7/ 1/2003' and the 'through' dropdown is set to '7/31/2003'. The 'Stylesheet' dropdown is set to 'NonDetailReport.xslt' with a 'Browse...' button next to it. The 'Filter' dropdown is set to 'Not Filtered'. The 'Include totals' checkbox is checked. The 'Records per printed page' field is set to '<not set>'. The 'Add' and 'Close' buttons are at the bottom right.

6 Click the **Sorting** tab.

Select a Primary and Secondary sort column and set the column sort order.

The screenshot shows the 'Add Distribution Report' dialog box with the 'Sorting' tab selected. The 'Name' field contains 'Reproducible defects' and the 'Share' dropdown is set to 'Shared With Users'. The 'Title' field contains 'Who Found Reproducible Defects'. The 'Report On' tab is also visible. The 'Primary Sort Column' dropdown is set to 'Always' and the 'Ascending' radio button is selected. The 'Secondary Sort Column' dropdown is set to '<not set>' and the 'Ascending' radio button is selected. The 'Add' and 'Close' buttons are at the bottom right.

- 7 Click the **Charting** tab.

This tab is used to add a chart to the report. For more information, see [Charting report data](#), page 94.

The screenshot shows the 'Add Distribution Report' dialog box with the 'Charting' tab selected. The 'Name' field is 'Reproducible defects' and the 'Share' dropdown is 'Shared With Users'. The 'Title' field is 'Who Found Reproducible Defects'. The 'Report On' tab is active, showing a list of 'Charts In Report' with 'Found By' selected. The 'Type' is 'Bar' and 'Data to Chart' is 'Always, Someti...'. The 'Title' is 'Found By', 'Size' is 'Large', and 'Color' is 'Black'. The 'Height' is 400 and 'Width' is 400. The 'Background Color' is 'White'. The 'X Axis Title' is 'Found By', 'Size' is 'Medium', and 'Color' is 'Navy'. The 'Y Axis Title' is 'Reproducible', 'Size' is 'Medium', and 'Color' is 'Navy'. The 'Show Labels' checkbox is checked, with 'X Axis Size' set to 'Small', 'Spacing' to 5 pixels, and 'Color' to 'Black'. The 'Y Axis Size' is 'Small', 'Density' is 80%, and 'Color' is 'Black'. The 'Show Grid', 'Show X Axis', and 'Show Y Axis' checkboxes are all checked, with their respective colors set to 'Silver'. The 'Add' and 'Close' buttons are at the bottom right.

- 8 Click **Add**.

The report is added.

Creating list reports

- 1 Choose **Create > Report > List**.

You can also click **Add** on the Reports list window and select **List**.

The Add List Report dialog box opens.

The screenshot shows the 'Add List Report' dialog box. The 'Name' field is 'My Open Feature Requests' and the 'Share' dropdown is 'Private'. The 'Title' field is 'Open Feature Requests'. The 'Report On' tab is active, showing a list of 'Report contains' with 'Defects' selected. The 'Available Fields' list includes 'Product', 'Found By', 'Reproducible', 'Version Found', 'Test Config', 'Component', 'Reference', 'Number Reported', and 'Date Entered'. The 'Fields in Report' list includes 'Number', 'Summary', 'Type', 'Priority', 'Status', and 'Date Found'. The '>> Add >>' button is between the two lists, and the 'Remove' button is below it. The 'Up' and 'Down' buttons are to the right of the 'Fields in Report' list. The 'Add' and 'Close' buttons are at the bottom right.

2 Enter a **Name** and **Title**.

The title appears at the top of the report when it is viewed or printed.

3 Select a **Share** option.

If you share the report, users with the proper command-level security can edit the report. Select **Private** to protect your report.

4 Select the **Report On** options.

- Select the record type from the **Report contains** list.
- Select the fields from the **Available Fields** list and click **Add**.
- To change the field order, select a field from the **Fields in Report** list and click **Up** or **Down**.

5 Click the **Options** tab.

- Select a **Stylesheet** or click **Browse** to use a customized stylesheet.
- Select a **Filter** if you are reporting on defects and only want to include filtered defects.
- Enter a number in the **Records per printed page** field to include page breaks between detail rows.

The screenshot shows the 'Add List Report' dialog box with the following details:

- Name:** My Open Feature Requests
- Share:** Private
- Title:** Open Feature Requests
- Report On:** (Selected tab)
- Options:** (Active sub-tab)
 - Stylesheet:** NonDetailReport_br.xslt
 - Filter:** Customer Defects
 - Records per printed page:** 5
- Buttons:** Add, Close

6 Click the **Sorting** tab.

Select a Primary and Secondary sort column and set the column sort order.

The screenshot shows the 'Add List Report' dialog box with the 'Sorting' tab selected. The 'Name' field is 'My Open Feature Requests' and the 'Share' dropdown is set to 'Private'. The 'Title' field is 'Open Feature Requests'. The 'Report On' tab is also visible. Under 'Primary Sort Column', the dropdown is set to 'Number' and the 'Ascending' radio button is selected. Under 'Secondary Sort Column', the dropdown is set to '<not set>' and the 'Ascending' radio button is selected. At the bottom are 'Add' and 'Close' buttons.

7 Click the **Formatting** tab.

Field and table settings are defined by the default stylesheet. This tab lets you override the stylesheet settings for a list report. For example, you can change the report header font style, size, color, or alignment. Select **Report Header** from the list and use the field settings to make any changes.

The screenshot shows the 'Add List Report' dialog box with the 'Formatting' tab selected. The 'Name' and 'Title' fields are the same as in the previous screenshot. The 'Report On' tab is also visible. On the left, a list of report elements is shown, with 'Report Header' selected. The 'Field Settings' section on the right has the following values: Font: 'Sans Serif', Background Color: '<use xsl>', Size: '16' pixels, Horiz Alignment: 'Center', Weight: '<use xsl>', Vert Alignment: 'Top', Color: 'Navy', Height: '<use xsl>' pixels, and Width: '<use xsl>' pixels. The 'Table Settings' section has: Border Size: '<use xsl>' pixels, Background Color: '<use xsl>', Cell Padding: '<use xsl>' pixels, and Cell Spacing: '<use xsl>' pixels. At the bottom are 'Add' and 'Close' buttons.

8 Click **Add**.

The report is added.

Creating trend reports

- 1 Choose **Create > Report > Trend**.

You can also click **Add** on the Reports list window and select **Trend**.

The Add Trend Report dialog box opens.

- 2 Enter a **Name** and **Title**.

The title appears at the top of the report when it is viewed or printed.

- 3 Select a **Share** option.

If you share the report, users with the proper command-level security can edit the report. Select **Private** to protect your report.

- 4 Select the **Report On** options.

- Select **Defect status in period** to report on the number of defects in each state (Open, Fixed, etc.) over the specified reporting period.
- Select **Defects <field> by <field>** to report on the number of defects that are Open, Fixed, Closed, etc. by Type, Priority, or Resolution.
- Select **Defect open age in period** to report on the number of defects open over the specified period.
- Select **Actual vs. Estimated hours** to include the difference between the actual and estimated defect fix time.

- 5 Click the **Options** tab.

- Select the date parameters for the report using the **Period**, **From**, and **through** lists.
- Select a **Stylesheet** or click **Browse** to use a customized stylesheet.

- Select a **Filter** if you are reporting on defects and only want to include filtered defects.
- Select **Include totals** to include totals for the selected report items. If you select this option, you can add the totals to a chart using the **Data to Graph** list on the Charting tab.
- Enter a number in the **Records per printed page** field to insert page breaks between detail rows.

The screenshot shows the 'Add Trend Report' dialog box with the 'Options' tab selected. The 'Name' field is 'Trend- fix defects' and the 'Share' dropdown is 'Shared With Users'. The 'Title' field is 'Fixed defects by user'. The 'Report On' tab is active. The 'Period' is set to 'Months', 'From' is '7/ 1/2003', and 'through' is '8/31/2003'. The 'Stylesheet' is 'NonDetailReport.xslt'. The 'Filter' is 'Not Filtered'. The 'Include totals' checkbox is checked. The 'Records per printed page' field is '<not set>'. There are 'Add' and 'Close' buttons at the bottom right.

- 6 Click the **Charting** tab.

This tab is used to add charts to the report. For more information, see [Charting report data, page 94](#).

The screenshot shows the 'Add Trend Report' dialog box with the 'Charting' tab selected. The 'Name' field is 'Trend- fix defects' and the 'Share' dropdown is 'Shared With Users'. The 'Title' field is 'Fixed defects by user'. The 'Report On' tab is active. The 'Charts In Report' list on the left contains 'Fixed Defects'. The 'Type' is '3DLine', 'Data to Chart' is 'Row Totals, Col...', 'Title' is 'Fixed Defects', 'Size' is 'Large', 'Color' is 'Black', 'Height' is '400', 'Width' is '400', and 'Background Color' is 'White'. The 'X Axis Title' is 'Date', 'Size' is 'Medium', 'Color' is 'Navy'. The 'Y Axis Title' is 'Fixed By', 'Size' is 'Medium', 'Color' is 'Navy'. The 'Show Labels' checkbox is checked. The 'X Axis Size' is 'Small', 'Spacing' is '5 pixels', 'Color' is 'Black'. The 'Y Axis Size' is 'Small', 'Density' is '80 %', 'Color' is 'Black'. The 'Show Grid', 'Show X Axis', and 'Show Y Axis' checkboxes are checked. The 'Color' for each is 'Silver'. There are 'Add' and 'Close' buttons at the bottom right.

- 7 Click **Add**.

The report is added.

Charting report data

You can add charts to distribution and trend reports. The available charts include pie, 3D pie, bar, 3D bar, area, 3D area, line, and 3D line.

Bar, area, and line charts

You can design a bar, area, or line chart using the available graphing fields.

Graphing field:	Use to:
Type	Select the type of report
Data to Chart	Select report data
Title	Enter a chart title
Size	Select the chart title size
Color	Select the chart title font color
Height	Select the chart height
Width	Select the chart width
Background Color	Select the chart background color
X Axis Title	Enter an X axis title
Y Axis Title	Enter a Y axis title
Size	Select the X and Y axis title size
Color	Select the X and Y axis title font colors
Show Labels	Show chart component labels
X Axis Size	Select the X axis label size
Y Axis Size	Select the Y axis label size
Spacing	Enter the amount of space between labels
Color	Select the X and Y axis label color
Density	Enter a density percentage. 80% displays all labels, 40% displays half, etc.
Show Grid	Select to show the chart grid pattern
Show X Axis	Select to show the X axis
Show Y Axis	Select to show the Y axis
Color	Select the color for the grid lines and the X and Y axis lines

Pie charts

Use the graphing fields to add and design pie charts.

Graphing field:	Use to:
Type	Select the report type
Data to Chart	Select report data
Title	Enter a chart title
Size	Select the chart title size
Color	Select the chart title font color
Height	Select the chart height
Width	Select the chart width
Background Color	Select the chart background color
Show Labels	Show chart data labels
Show Percents	Show chart data in percents
Label Size	Select the chart label size
Color	Select the label font colors
Label Position	Set the spacing of the chart labels



Pie charts are scaled based on a number of factors, including image size, label size, and number of labels. You may need to change the image height and width dimensions for the pie chart to display correctly.

Viewing report settings

- 1 Select the report on the Reports list window.
- 2 Choose **Edit > View Report** or click **View** on the Reports list window.
The View Report dialog box opens. All fields are read-only.
- 3 Click **OK** when you are finished.

Editing reports

- 1 Select the report on the Reports list window.
- 2 Choose **Edit > Edit Report** or click **Edit** on the Reports list window.
The Edit Report dialog box opens.
- 3 Make any changes and click **OK**.

Previewing reports

- 1 Select the report on the Reports list window and click **Preview**.
The report opens in preview mode.
- 2 Click the Next and Previous arrows, or use the scroll bar, to move through the report.
- 3 Click **Page Setup** to change the page options or click **Print** to print the report.

Note: You can also click **Save As** to save the report as a text file.

Printing reports

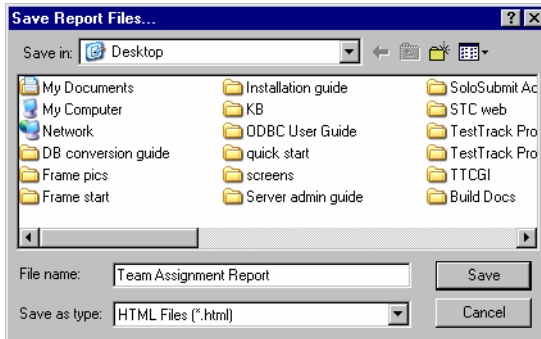
- 1 Select the report on the Reports list window and click **Print**.
The print dialog box opens.
- 2 Make your selections and click **Print**.

Saving a copy of a report

You can save a copy of a report as an HTML file and open it later to modify the data.

- 1 Select the report on the Reports list window and click **Preview**.
- 2 Choose **File > Save As**.

The Save Report Files dialog box opens.



- 3 Select a **Save in** location.
- 4 Enter a **File name**.
- 5 HTML Files is automatically selected from the **Save as type** list.
- 6 Click **Save**.

The report file is saved in the location you specified.

Deleting reports

- 1 Select the report on the Reports list window.

You can select more than one report to delete.

- 2 Choose **Edit > Delete Report** or click **Delete** on the Reports list window.

You are prompted to confirm the deletion.

- 3 Click **OK**.

The report is deleted.

Chapter 10

Using the Workbook

So much to do...

so little time to do it? Use the Workbook to view defects and track other tasks. TestTrack Pro, and the Workbook, can help you stay organized!

About the workbook, 100

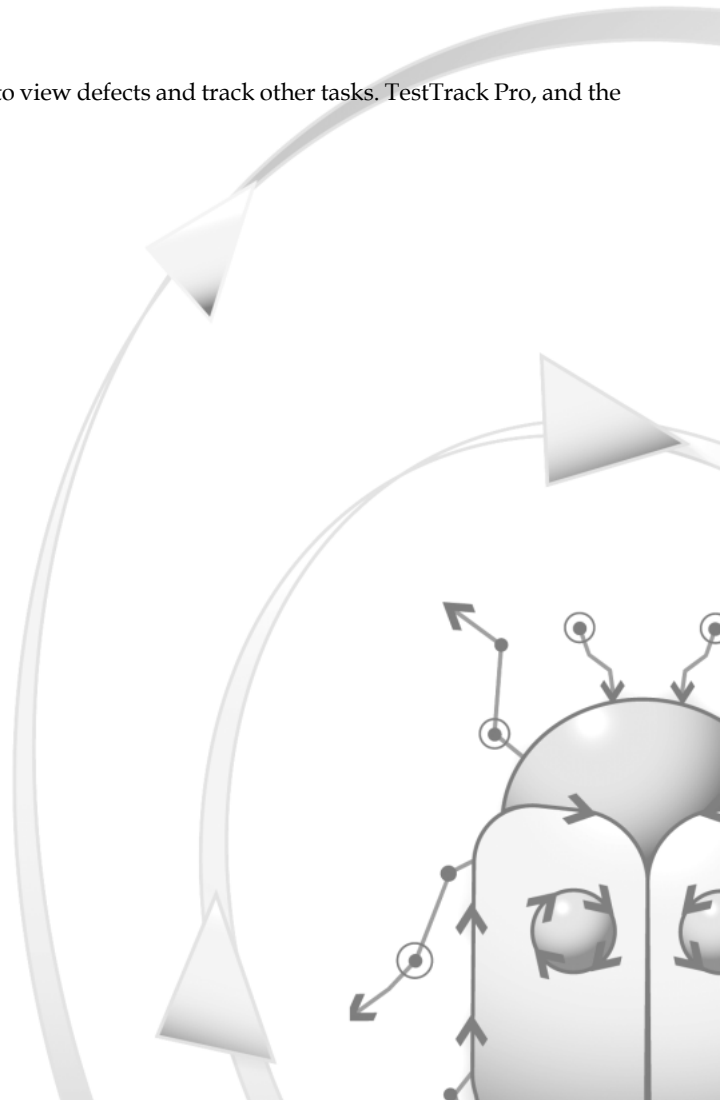
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Viewing to do tasks, 101

Editing to do tasks, 101

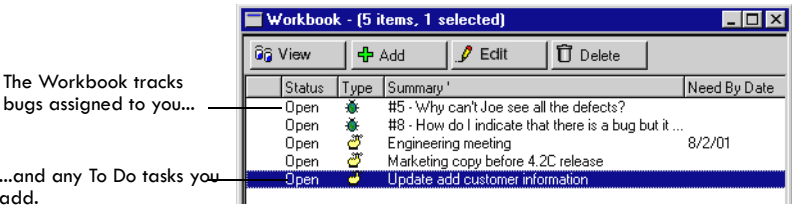
Duplicating to do tasks, 101

Deleting to do tasks, 101





About the workbook

Use the Workbook to keep track of defects, loose ends, and various other tasks. For example, you can add To Do tasks to remind you about upcoming deadlines.



Understanding Workbook tasks

You can track defect tasks and To Do tasks in the Workbook. **Task indicators** in the type column of the Workbook list point out your assigned defects and the To Do tasks you added to the Workbook.

Icon	Name	Indicates
	Defect tasks	Defects assigned to you. TestTrack Pro adds these tasks to the workbook.
	To Do tasks	Defects that changed since you last logged in

Adding to do tasks

- 1 Choose **Create > To Do** or click **Add** on the Workbook list window.

The Add To Do dialog box opens.

- 2 Enter a task name in the **To Do** field.
- 3 Select the task **Priority**.
- 4 Check the date.
- 5 Select a **Need by date** or **Version**.
- 6 Enter a **description**.
- 7 Click **Add**.

The task is added to TestTrack Pro.

Viewing to do tasks

- 1 Select the task or defect on the Workbook list window.
- 2 Choose **Edit > View Task** or click **View** on the Workbook list window.
The View To Do or View Defect dialog box opens. All fields are read-only.
- 3 Click **OK** when you are finished.

Editing to do tasks

- 1 Select the task or defect on the Workbook list window.
- 2 Choose **Edit > Edit Task** or click **Edit** on the Workbook list window.
The Edit To Do or Edit Defect dialog box opens.
- 3 Make any changes.
If the task is complete, select **Done**.
- 4 Click **OK**.
Your changes are saved and you return to the Workbook list window.

Duplicating to do tasks

- 1 Select the task on the Workbook list window. You can only duplicate **tasks**, you cannot duplicate defects.
- 2 Choose **Edit > Duplicate Task**.
The task is duplicated.
- 3 Modify the duplicated task and save your changes.

Deleting to do tasks

- 1 Select the task on the Workbook list window. You can only delete **tasks**. You cannot delete defects.
- 2 Choose **Edit > Delete Task** or click **Delete** on the Workbook list window.
You are prompted to confirm the deletion.
- 3 Click **OK**.
The task is deleted.

Chapter 11

Integrating SCC applications

Integrate TestTrack Pro...

with your Source Code Control (SCC) application and associate TestTrack Pro defects with your source code - enhancing your product quality.

Using source code control with TestTrack Pro, 104

Configuring SCC integration, 104

Disabling SCC integration, 105

General source code tab information, 106

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Detaching files, 108

Getting files, 108

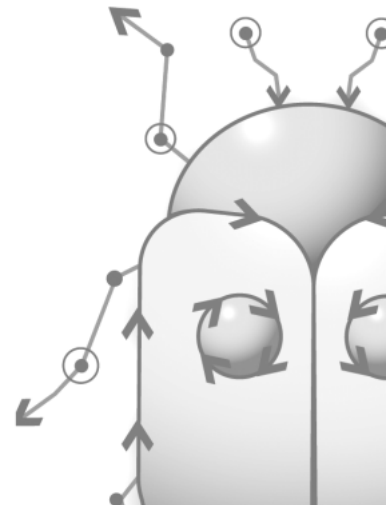
Checking in files, 109

Checking out files, 111

Undoing check out, 112

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Using source code control with TestTrack Pro

You can integrate the following SCC applications with TestTrack Pro: CS-RCS, CVS, ClearCase, PVCS, Perforce, SourceOffSite Classic, StarTeam, Surround SCM, and Visual SourceSafe. You must configure the integration before you can access your SCC application through TestTrack Pro. SCC integration includes the following commands: attach file, detach file, get, check in, check out, undo check out, view, and history.

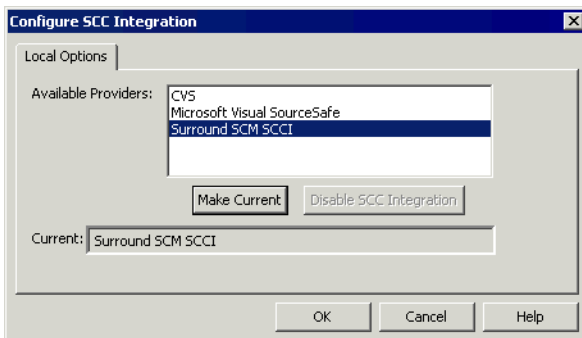
Note: For more information about specific SCC applications and their integration with TestTrack Pro, see [Chapter 16, “Configuring SCC Integration,”](#) page 177.

Configuring SCC integration

- 1 Choose **Configure > SCC Integration**.

The Configure SCC Integration dialog box opens with the Local Options tab selected. The Local Options tab lists the installed SCC providers.

Note: CVS is always displayed in the Available Providers list. Do not set up CVS integration unless CVS is installed on your computer.



- 2 Select the application you want to use from the Available Providers list and click **Make Current**.

The application you selected is listed in the Current box. The Local Options tab is the only tab available until you select an SCC application.

Tip: You probably use one source code control program. You must still select the application and click **Make Current**.

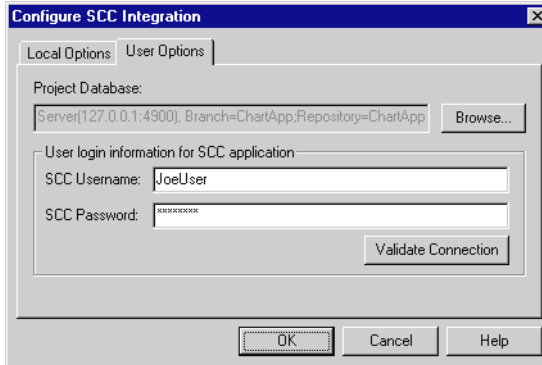
- 3 Click the **User Options** tab.

The user options settings are stored in the TestTrack Pro database for the currently logged in user. If you log in to multiple TestTrack Pro databases, SCC user options must be configured for each database.

- 4 Click **Browse** to select the project database.

If you use **Visual SourceSafe** or **PVCS** you must also enter a valid username and password.

- 5 Click **Validate Connection** to test the connection parameters. If you receive an error message, correct the error and try again.

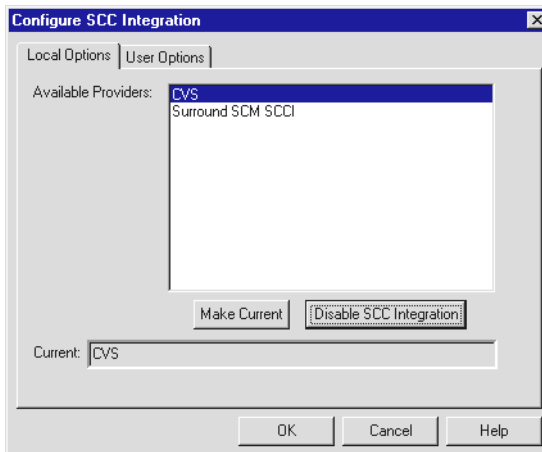


Disabling SCC integration

- 1 Choose **Configure > SCC Integration**.

The Configure SCC Integration dialog box opens.

- 2 Select the provider you want to disable and click **Disable SCC Integration**.



- 3 You are prompted to confirm that you want to disable the SCC integration.
- 4 Click **Yes** to disable the integration.

General source code tab information

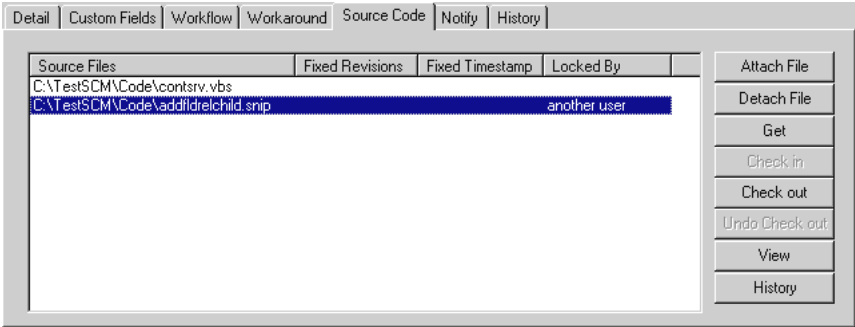


How do I know if source files are attached to a defect?

Add a new column to the Defects list window and select **Has SCC files?** for the heading. **Yes** appears in the column if source files are attached to a defect.

The source code tab provides the following information about the source files attached to a defect.

Source Files	All files attached to the defect.
Fixed Revision	Each revision number where the file was checked in from the defect. Revision numbers are obtained from the SCC application. If the file is not checked in through TestTrack Pro, the revision number is not updated.
Fixed Timestamp	The timestamp of the latest fixed revision found in the Fixed revision column.
Locked By	The username is displayed if it can be determined. If the username cannot be determined, "current user" or "another user" is usually displayed.



Attaching files

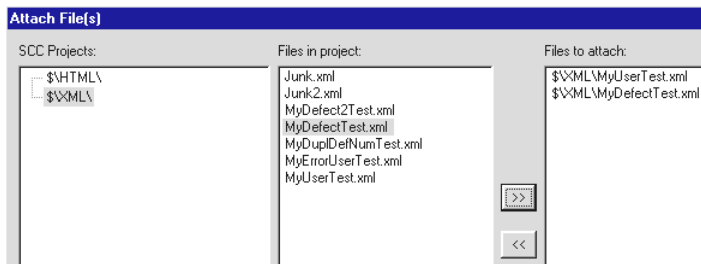
This command is used to attach files to a defect. You should attach any file in SCC that is related to the defect. For example, you might attach a source file that changed while fixing the defect.



You can attach a source code file when adding a defect, but you will probably attach files when editing defects. Generally, QA, support, or customers add defects. A developer, or other team member (such as a documentation team member), usually attaches source code files to a defect after the bug is added.

- 1 Select the defect you want to attach a file to on the Defects list window.
- 2 Choose **Edit >Edit defect** or click **Edit** on the Defects list window.
- 3 Click the **Source Code** tab.
- 4 Click **Attach File**.

The Attach File(s) dialog box opens.



- 5 Select the project you want to work with from the **SCC Projects** list.

A list of available files opens in the **Files in project** list.

Note: The SCC application is not queried for data after the Attach File(s) dialog box opens for the first time. If you add files or directories to your SCC project, click **Refresh**. The TestTrack Pro client will call the PVCS or Perforce interface to obtain the list of files that are under source code control.

- 6 Select the files you want to attach from the **Files in project** list and click the **right arrow button (>>)**.

The files are listed in the **Files to attach** list. If you make a mistake, select the file in the Files to attach list and click the **left arrow button (<<)**.

- 7 Click **OK** when you are finished.



If you are using ClearCase, PVCS, or Perforce, make sure you only attach relevant files. Due to the program interfaces, attaching files can cause a small delay in performance depending on the number of files in the database. This slow down is based on the number of attached files, not the number of files in ClearCase, PVCS, or Perforce.

The first time you attach SCC files, the Attach File(s) dialog box may take a longer time than expected to open. The TestTrack Pro client must call the program to obtain a list of files that are under source code control. The next time you access the Attach function, it will be a faster process because the list of SCC files are cached by TestTrack Pro.

Detaching files

This command is used to detach files from a defect. When you detach files, it removes the association of the SCC file to the defect. This action does not make any changes in the SCC application.

- 1 Select the defect you want to detach a file from on the Defects list window.
- 2 Choose **Edit >Edit defect** or click **Edit** on the Defects list window.
- 3 Click the **Source Code** tab.
- 4 Select the source file and click **Detach File**.

You are prompted to make sure you want to detach the selected file.

- 5 Click **Yes**.

The file is detached.

Getting files

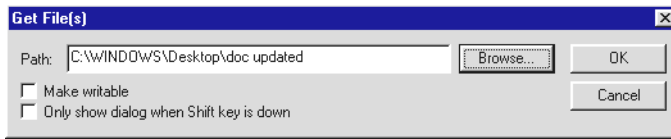
This command is used to view, and not edit, a file. When you get a file, a read-only file is copied to the directory you specify.

Note: If you are using **Perforce**, the Get command syncs the local file with the depot file. If a file is checked out or locked, the Get command does not work.

- 1 Select the defect you want to get SCC files from on the Defects list window.
- 2 Choose **Edit >Edit defect** or click **Edit** on the Defects list window.
- 3 Click the **Source Code** tab.

- 4 Select the source file(s) and click **Get**.

The Get File(s) dialog box opens.



- 5 Enter a directory path or click **Browse** to select a path. You can leave the path field empty to use the default location.
 - If you are getting a **single file**, the value of the path field is determined by the SCC user configuration.
 - If you are getting **multiple files**, the path field may be empty since each file can have a different default location.
- 6 Select **Make writable** if you want to be able to edit the file.
- 7 Select **Only show dialog when Shift key is down** if you do not want the Get File(s) dialog box to open.

If you select this option, the settings you entered are used each time you get a file. To display the dialog, hold down the **Shift** key before clicking **Get**.

- 8 Click **OK**.

The file is copied to the directory you specified.

Checking in files

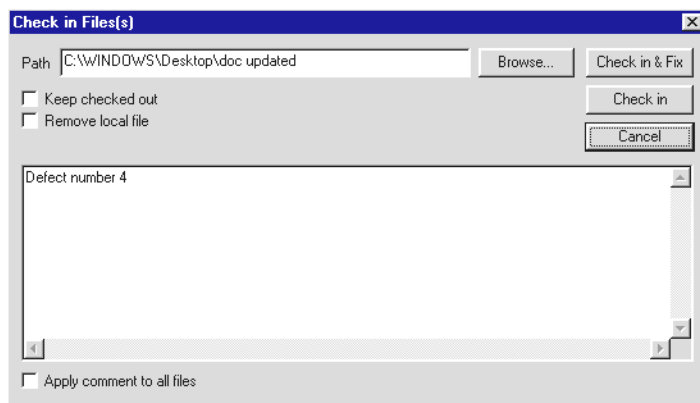
This command updates the SCC application with the changes you made and unlocks the file. When another user accesses the file in the SCC application, the file includes all the modifications you made. If you check in files outside of TestTrack Pro, the fixed revision and fixed timestamp information is not captured in the TestTrack Pro database.

Note: If you are using **Perforce**, you can only check in files from the **default changelist**.

- 1 Select the defect with the file you want to check in on the Defects list window.
- 2 Choose **Edit > Edit defect** or click **Edit** on the Defects list window.
- 3 Click the **Source Code** tab.

- 4 Select the source file(s) and click **Check in**.

The Check in File(s) dialog box opens.



- 5 Check the path.

This field defaults to the directory path you chose when the file was checked out. You can enter a different path or click **Browse** to select a path.

- 6 Select **Keep checked out** to update the master copy of a file while keeping the file checked out.
- 7 Select **Remove local file** to remove the copy from your working folder.
- 8 Enter any comments.

Your database may include a check in comments template that automatically populates the comments field. You can add comments to the field or delete the comments and add your own. Select **Apply comments to all files** to use the same comment for each source file. This only applies if you are checking in multiple files at the same time.

- 9 Click **Check in & Fix** to check in the selected file(s) and then fix the defect(s).

The files are checked in and the Fix Defect dialog box opens.

Note: **Check in & Fix** is only available if the defect is in the Open state.

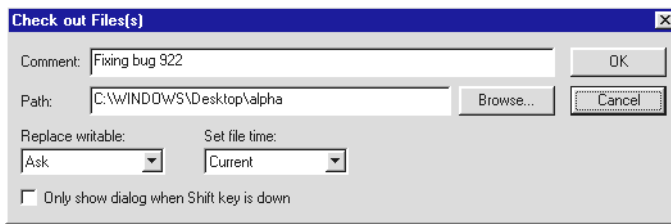
- 10 Click **Check in** to check in the file(s) without fixing the defect.

Checking out files

This command lets you check out one or more files for editing. A writable copy of the file is placed in the directory you specify. Any user can attempt to check out a file in TestTrack Pro. If the SCC application is not configured to allow multiple checkouts, or a user has exclusively locked the file, the user trying to check out the file will be notified of the check out failure.

- 1 Select the defect you want to check out a file from on the Defects list window.
- 2 Choose **Edit >Edit defect** or click **Edit** on the Defects list window.
- 3 Click the **Source Code** tab.
- 4 Select the source file(s) and click **Check out**.

The Check Out File(s) dialog box opens.



- 5 Enter a description of the reason for the check out in the **Comment** field.

Perforce does not support the Comment field.

- 6 Enter a directory path or click **Browse** to select a path.

If you leave the **Path field empty**, the default location is used. The default location is determined by the SCC application, based on the SCC user configuration.

If you are checking out a **single file**, the value of the path field is determined by the SCC user configuration. If you are checking out **multiple files**, the path field may be empty because the default location can differ for each file.

- 7 Select a **Replace writable** option.

This option determines what happens if you try to check out a file that is already marked as writable.

- **Ask** prompts you to confirm that you want to overwrite the file.
- **Replace** automatically overwrites the writable file.
- **Skip** ignores the check out operation for the writable file.

8 Select a **Set file time** option.

- **Current** sets the current time (time of check out).
- **Check in** sets the time to the check in time.
- **Modified** sets the time to the last modification time.

Note: This option is not available if you are using **StarTeam**.

9 Click **OK**.

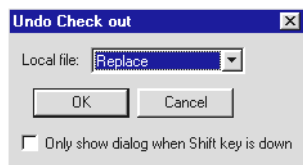
The file(s) is checked out.

Undoing check out

This command undoes a check out operation.

1 On the Source Code tab, select the source file and click **Undo Check out**.

The Undo Check out dialog box opens.



2 Select a **Local file** option.

- **Replace** the file in your local directory.
- **Leave** the file in your local directory.
- **Delete** the file from your working folder.

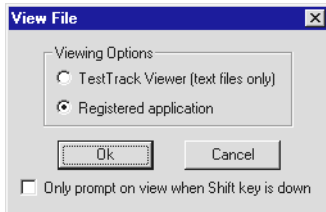
3 Click **OK**.

Viewing files

This command displays a copy of the selected file.

- 1 On the Source Code tab, select the source file and click **View**.

The View File dialog box opens.



- 2 Select a **Viewing** option and click **OK**.

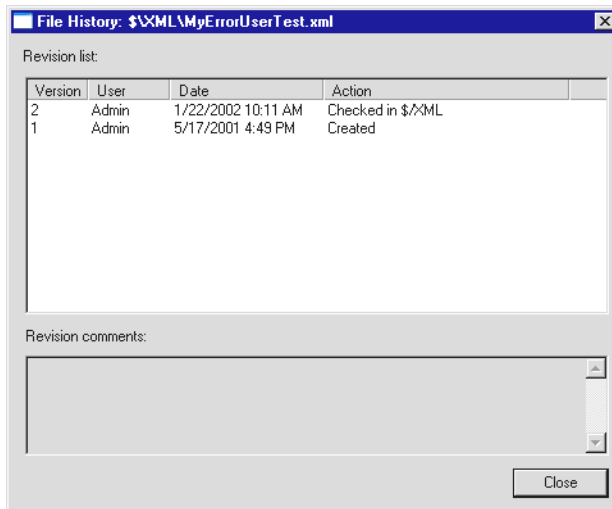
A copy of the file is opened.

Viewing file history

This command displays a file's history.

- 1 On the Source Code tab, select the source file and click **History**.

The File History dialog box opens.



- 2 Click **Close** when you are finished.

Chapter 12

Integrating with Development Tools

Use the TestTrack Pro Add-In...

and never leave your development environment! Use the add-in to access TestTrack Pro functions, from within Visual Basic, Visual C++, and Visual Studio .NET.

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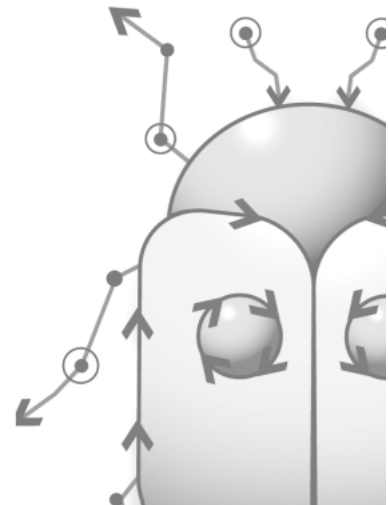
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About the TestTrack Pro Add-In

The TestTrack Pro Add-In can be used with Visual Basic 6.0, Visual C++ 6.0, and Visual Studio .NET. The Add-In lets you stay in your development environment while accessing TestTrack Pro functions. A dockable TestTrack Pro toolbar is added to the IDE.

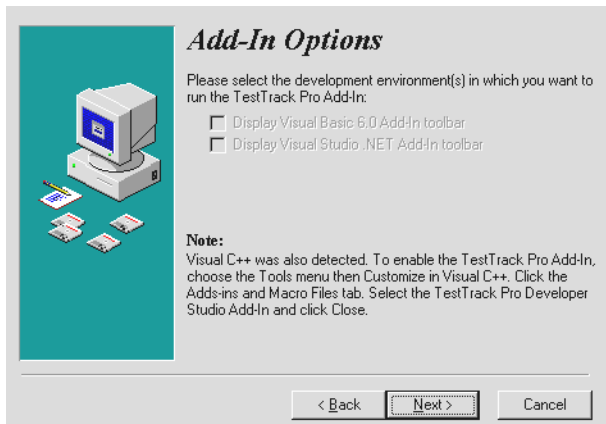
The TestTrack Pro Add-In functions the same regardless of your development environment. There are a few exceptions:

- Visual Basic has no concept of a workspace. If you are working in the Visual Basic development environment, there is no provision for connecting to a database. Also, you cannot set TestTrack Pro Add-In options in Visual Basic.
- Visual C++ refers to workspaces. Visual Studio .NET refers to solutions.

Installing the Add-In

During TestTrack Pro client installation, the Add-In Options dialog box opens if Visual Basic 6.0, Visual C++6.0, or Visual Studio .NET are installed on your computer. The TestTrack Pro Add-In is automatically installed.









- If Visual C++ 6.0 is installed on your computer, make sure you read the Note information. It includes instructions for enabling the Add-In.
- If Visual Basic 6.0 or Visual Studio .NET is installed on your computer, select the corresponding development environment check box. You do not need to manually enable the Add-In.



Add-In toolbar

The TestTrack Pro toolbar contains buttons that give you access to TestTrack Pro functions and list windows—just a click away!



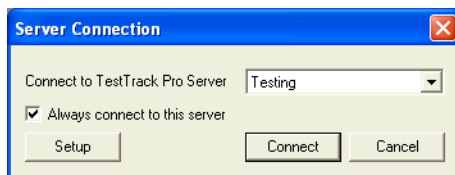
Button	Name	Action
	Connect	Connects you to the server
	Disconnect	Disconnects your server connection
	Defect List	Opens the Defects list window
	Add Defect	Opens the Add Defect dialog box
	Task List	Opens the Workbook/Task list window
	Add Task	Opens the Add To Do dialog box
	Options	Opens the Options dialog box
	About	Opens the About dialog box

Note: The **Options** button is not available with Visual Basic.

Connecting to a database

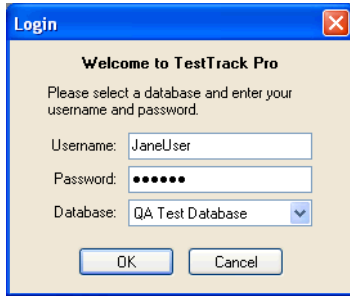
- 1 Click the **Connect** toolbar button.

The Server Connection dialog box opens.



- 2 Select a server from the **Connect to TestTrack Pro Server** menu and click **Connect**.

The Login dialog box opens.



- 3 Enter your username and password.
- 4 Select a database from the **Database** menu and click **OK**.

You are connected to the TestTrack Pro server and database.



Where to go next...

If you are the **Lead Engineer**, start with the Defects list. Use a filter to display all defects created, fixed, or verified in the last week **and** that are not currently assigned and not in the closed state. Then, assign the defects to the appropriate person.

If you are an **Engineer/Developer**, start with the Task list. The Workbook Task list displays all the defects assigned to you and any to do tasks you added. You can also start with the Defects list and choose a filter that displays the defects you need to work with.

Setting options

You can set Open Workspace and Login options that are specific to Visual C++ and Visual Studio .NET.

Note: Remember, Visual Studio .NET refers to solutions and Visual C++ refers to workspaces. The following examples and screenshots use Visual C++. If you are working in a Visual Studio .NET development environment, the dialog boxes and text may be different.

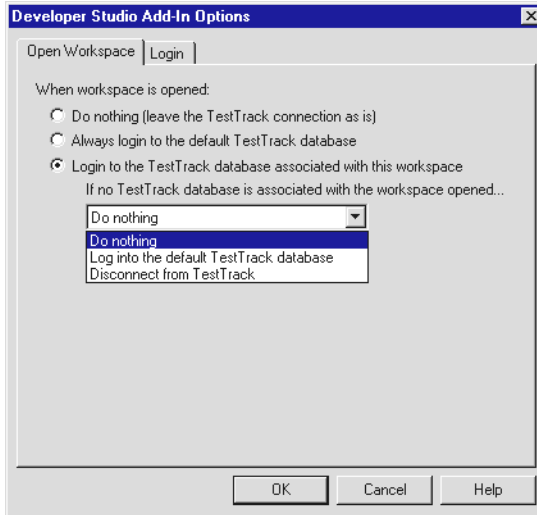
Each workspace/solution can be associated with a single TestTrack Pro database. Multiple workspaces/solutions can also be associated with one TestTrack Pro database. The TestTrack Pro database does not have a direct link to a workspace/solution.

When a workspace/solution is opened, and a TestTrack Pro database is associated with the workspace/solution, the TestTrack Pro Add-In receives a message. A connection with the TestTrack Pro server is established and you are logged into the database. When a workspace/solution is closed, you are logged out of the current database.

Open Workspace tab

- 1 Click the **Options** toolbar button.

The Developer Studio Add-In Options dialog box opens with the **Open Workspace** tab selected.



- 2 Select **Do nothing (leave the TestTrack connection as is)** if you do not want to connect to the TestTrack Pro Server and log in to a TestTrack Pro database.
- 3 Select **Always login to the default TestTrack database** to automatically log in to your default database. You can specify the default database on the **Login** tab.
- 4 Select **Login to the TestTrack database associated with this workspace** to automatically log in to a database. After selecting this option, you need to choose an option from the dropdown list. The dropdown list determines what happens when a TestTrack Pro database is not associated with the workspace.

Setting default login information

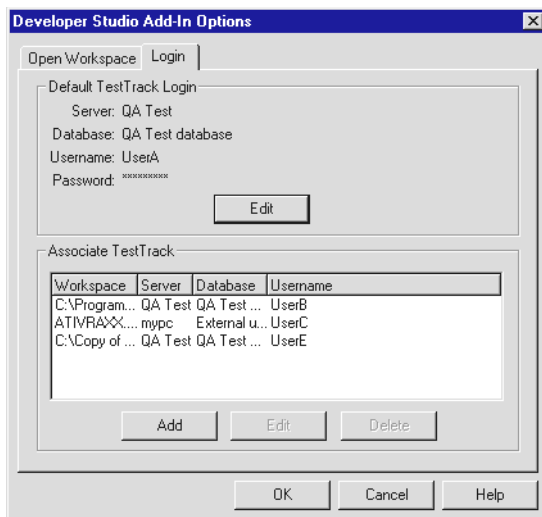
The Login tab lets you set the default login information and associate Visual Studio workspaces with TestTrack Pro databases. When you open a workspace, you can automatically login and connect to a specific TestTrack Pro database.

- 1 Click the **Options** toolbar button.

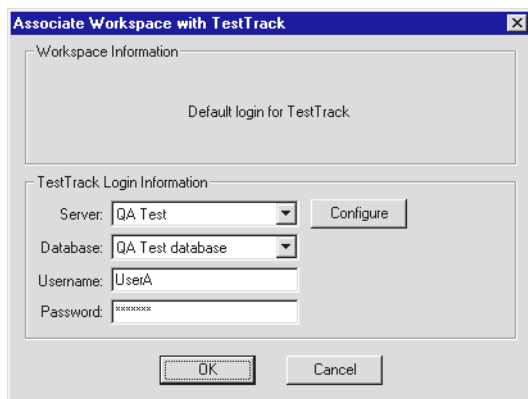
The Developer Studio Add-In Options dialog box opens.

- 2 Click the **Login** tab.

- 3 Click **Edit** in the Default TestTrack Login area.



- 4 The Associate Workspace with TestTrack dialog box opens.



- 5 Select a **server**.

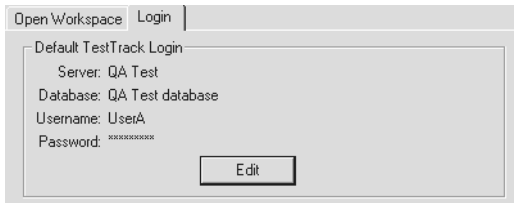
Click **Configure** to add a server. For more information, see [Setting up server connections](#), page 9.

- 6 Select a **database**.

- 7 Enter your **Username** and **Password**.

- 8 Click **OK**.

The Default TestTrack Login area is populated with the information you entered. Click **Edit** to change any information.



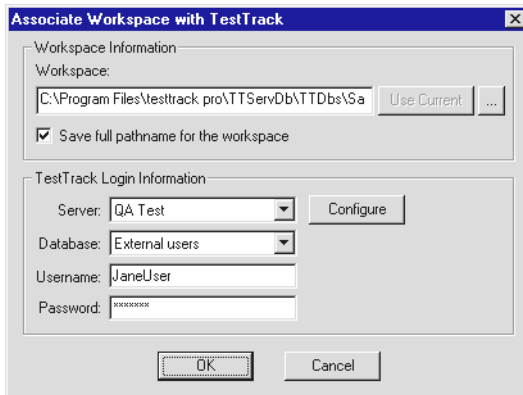
Associating a workspace with TestTrack Pro

- 1 Click the **Options** toolbar button.

The Developer Studio Add-In Options dialog box opens.

- 2 Click the **Login** tab.
- 3 click **Add** in the Associate TestTrack area.

The Associate Workspace with TestTrack dialog box opens.



- 4 Click **Use Current** or the **Browse** button to select the workspace you want to associate with the database.

Selecting **Save full pathname for the workspace** gives you greater control of the workspace association. For example, you have two workspace files with the same filename. This option lets you associate each workspace with a different TestTrack Pro database.

- 5 Select a **server**.

Click **Configure** to add a server. For more information, see [Setting up server connections](#), page 9.

- 6 Select a **database**.

- 7 Enter your **Username** and **Password**.
- 8 Click **OK**.

The Associate TestTrack area is populated with the information you entered.

Note: Select a row and click **Edit** to make changes. If you want to delete an association, select a row and click **Delete**. Make sure you want to delete the association - you are not prompted to confirm the deletion and this action cannot be undone!

Working with defects

The defect list tracks all defects entered in a database. For more information, see [About defects, page 32](#).

Opening the defect list

- 1 Click the **Defect List** toolbar button.

The Defects list window opens.

Defects - (12 items, 0 selected)				
View		Add	Edit	Delete
		Filter: Not Filtered		
No.	Summary	Type	Priority	
1	Joe and Jane are seeing issues unrelated to their roles.	Incorrect Functionality	Immediate	
2	Defects added by "admin" account should not be visible to the "Restri...	Incorrect Functionality	Immediate	
✓ 3	The restricted view group does not need to see all product A, B, C issu...	Crash - Data Loss	Immediate	
✓ 4	Clicking the exit button in component A causes a crash	Crash - Data Loss	Before Alpha	
5	Why can't Joe see all the defects?	Incorrect Functionality		
6	Jane reported on Product X	Incorrect Functionality	Before Final	
7	Test of this months bugs filter.	Crash - Data Loss	Immediate	
8	How do I indicate that there is a bug but it might not be fixed for a while?	Crash - Data Loss	Immediate	
✓ 9	Test of this months bugs filter. Closed	Crash - Data Loss	Immediate	
10	My reports no longer format correctly using IE 5.0	Crash - Data Loss	Immediate	
✓ 11	A third test of this months bugs filter. Closed	Crash - Data Loss	Immediate	
12	It would be nice to have a "Panic" button to hide information immediately	Feature Request	Before Final	

Adding defects

- 1 Click the **Add Defect** toolbar button or click **Add** on the Defect list window.

The Add Defect dialog box opens.

- 2 Enter the defect information.

For more information, see [Adding defects, page 32](#).

- 3 Click **Add** to save the defect information and add the defect.

Viewing defects

- 1 Select the defect on the Defects list window.
- 2 Click **View**.

The View Defect dialog box opens. All fields are read-only.

Editing defects

- 1 Select the defect on the Defects list window.
- 2 Click **Edit**.

The Edit Defect dialog box opens.

- 3 Make any changes and click **OK**.

Deleting defects

- 1 Select the defect on the Defects list window.
- 2 Click **Delete**.



You are prompted to confirm the deletion.

- 3 Click **OK**.

Using the workbook

The workbook tracks your defects, loose ends, and other tasks. For example, you can add tasks to remind you about meetings or upcoming deadlines.

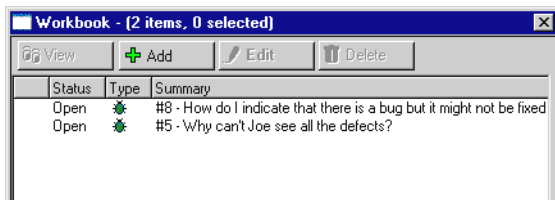
Task indicators appear in the type column of the Workbook list window. These indicators point out your assigned defects and tasks you added.

Icon	Name	Indicates
	Defect tasks	Defects assigned to you. TestTrack Pro adds these tasks to the workbook.
	To Do tasks	Project-related tasks you add to the workbook.

Opening the Workbook task list

- 1 Click the **Task List** toolbar button.

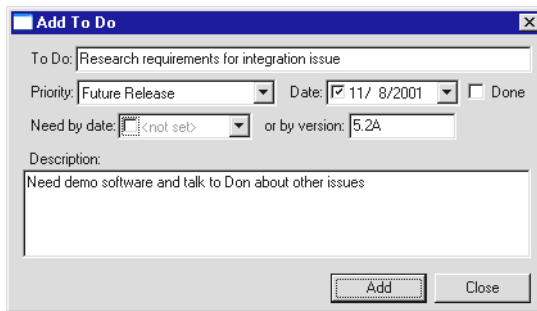
The Workbook list window opens.



Adding tasks

- 1 Click the **Add Task** toolbar button or click **Add** on the Workbook list window.

The Add To Do dialog box opens.



- 2 Enter the task information.

For more information, see [Adding to do tasks](#), page 100.

- 3 Click **Add**.

The dialog box clears and you can add another task. Click **Close** when you finish.

Editing tasks

- 1 Select the task or defect on the Workbook list window.
- 2 Click **Edit**.

The Edit To Do or Edit Defect dialog box opens.

- 3 Make any changes and click **OK**.

If the To Do task is completed, select **Done**. The task appears greyed-out and a check mark is displayed in the first column of the Workbook list window.

Viewing tasks

- 1 Select the task or defect on the Workbook list window.
- 2 Click **View**.

The View To Do or View Defect dialog box opens. All fields are read-only.

Deleting tasks

- 1 Select the task on the Workbook list window.

You can only delete **To Do tasks**. You cannot delete defects.

- 2 Click **Delete**.

You are prompted to confirm the deletion.

- 3 Click **OK**.

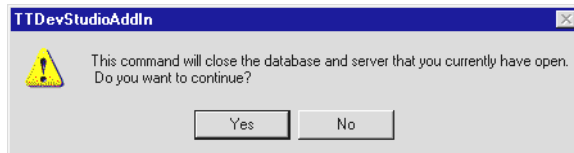
The To Do task is deleted.

Disconnecting

When you finish working with your defects, make sure you disconnect from the database and server.

- 1 Click the **Disconnect** toolbar button.

A warning message opens, stating the open database and server connection will be closed.



- 2 Click **Yes**.

The database is closed and you are disconnected from the server.

Chapter 13

Configuring Databases

Lay the foundation!

Databases are one of the most important components of TestTrack Pro - take the time to configure your databases and keep your users productive!

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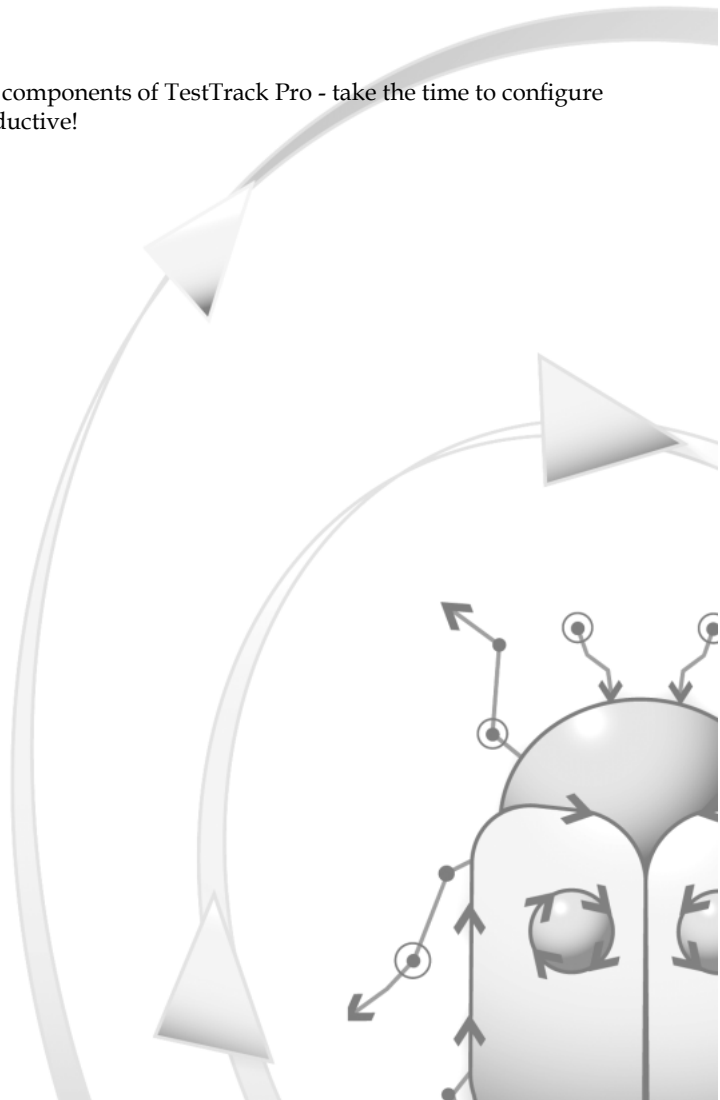
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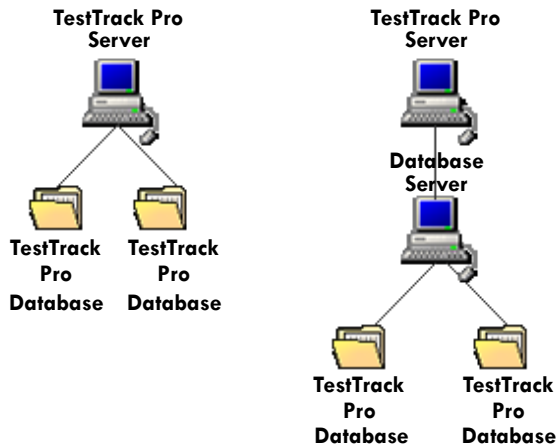


About databases

A TestTrack Pro database contains all the information you track, including defects, user groups, users, customers, filters, test configurations, and workbook tasks.

Databases are initially created and stored on the computer where the TestTrack Pro Server is installed. Databases can be also be moved to another computer, separate from the computer where the TestTrack Pro Server is installed. For more information, see the **Server Admin Utility Guide**.

Sample server/database configurations



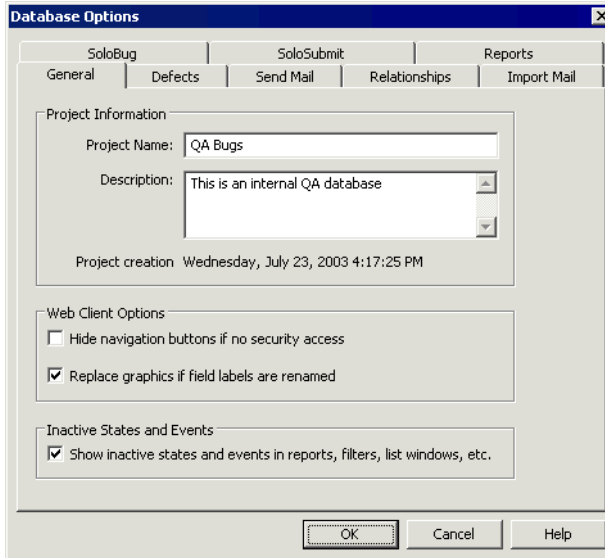
Creating databases

The TestTrack Pro administrator, or another user with high level security, **creates all the databases** using the **Server Admin Utility**. If you need a new database, see your administrator. If you are the TestTrack Pro administrator, see **Creating a database** in the **Server Admin Utility Guide**.

Setting general options

- 1 Chose **Edit > Options > Database Options**.

The Database Options dialog box opens, with the **General** tab selected.



- 2 Enter a **Project Name** and **Description**.

The project name does not change the database name.

- 3 Select **Hide navigation buttons if no security access** to hide the Web navigation buttons.

If you do not select this option, and the user does not have security access, the buttons appear on the web page but are disabled. This option only affects the web client.

- 4 Select **Replace graphics if field labels** are renamed to automatically replace the corresponding field label graphics.

Do not select this option if you use custom graphics for renamed fields.

- 5 Select **Show inactive states and events in reports, filters, list windows, etc.** if you want inactive states and events to be included in the reports dialog, the filter dialog, the list window column pop-up menu, and reports.
- 6 Click **OK** or click another tab to continue setting options.

Setting defect options

- 1 Chose **Edit > Options > Database Options**.
- 2 Click the **Defects** tab.

The screenshot shows the 'Database Options' dialog box with the 'Defects' tab selected. The dialog has a title bar with a close button. Below the title bar are tabs for 'SoloBug', 'SoloSubmit', and 'Reports'. Under 'SoloBug', there are sub-tabs: 'General', 'Defects' (selected), 'Send Mail', 'Relationships', and 'Import Mail'. The 'Defects' sub-tab contains the following options:

- Defer numbering defects**: A text box explaining that TestTrack Pro can defer numbering defects until someone has had a chance to review them.
- Number defects when...**: A list of checkboxes:
 - ☒ Defects are submitted by TestTrack Pro users
 - ☒ Defects are imported from SoloBug
 - ☒ Defects are imported from email
 - ☒ Defects are imported from SoloSubmit page
 - ☒ Defects are imported from a text or XML file
 - ☒ Defects are submitted via SOAP server
- Next number**: Two text boxes:
 - Next defect number is: 1150
 - Next sequence number is: 1
- Version fields**: Two radio buttons and one checkbox:
 - ☒ Allow version fields to accept free form text entry
 - ☐ Restrict version fields to pop-up menu options
 - ☒ When sorting on version field, use advanced logic
- Logging**: One checkbox:
 - ☒ Enable logging of historical defect information

At the bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Help'.

- 3 Select the **Defer numbering defects** options.

For each of the options, select the check box to automatically assign a defect number.

- 4 Select the **Next number** options.

- The **Next defect number** can be set to any value greater than the largest defect number.
- The **Next sequence number** can be set to any value greater than the largest sequence number.

- 5 Select the **Version fields** options. Version fields options affect the following fields: version found, version fixed, version verified, version released, and estimated completion.

You can configure version field menus to accept text entries or restrict version fields to pop-up menus.

Note: When sorting on version field, use advanced logic tells TestTrack Pro to look for delimiters and sort the alphanumeric characters in that section.

- 6 Select **Enable logging of historical defect information** to log historical information.

For more information, see [Logging historical defect information](#), page 138.

- 7 Click **OK** or click another tab to continue setting options.

Setting send mail options

- 1 Chose **Edit > Options > Database Options**.
- 2 Click the **Send Mail** tab.

The screenshot shows the 'Database Options' dialog box with the 'Send Mail' tab selected. The 'Enable sending of mail for this project' checkbox is checked. Under 'Return address for email notifications', the 'Always use the notification email account for the return address' radio button is selected. The 'Notification account name' is 'QA Internal' and the 'Notification account email address' is 'qainternal@wysicorp.com'. Under 'Notification options for closing defects', the 'Send mail to defect's submitters if the defect moves to a "Closed" state' checkbox is checked, and the 'Email template' is 'Defect Closed'. Under 'Defect notification list template', the 'Email template' is 'Defect Changed'. The 'OK', 'Cancel', and 'Help' buttons are at the bottom.

- 3 Select **Enable sending of mail for this project** to enable mail.

If you do not select this option, users cannot use the Send Mail command or receive email notifications.

- 4 Select the **Return address** options.

- **Always use the notification email account for the return address** is the default option.
- **Only use notification account if no TestTrack user is logged in** uses the notification account information. For example, a user might not be logged in during email import or while using SoloSubmit. In either case, the notification account information is used.
- **Only use notification account if the logged in user's email address is blank** ensures that an email address is available if the logged in user did not provide an email address.
- Enter a **notification account name**. The notification account name defaults to "TestTrack." You will probably want to customize the account name for your company
- Enter an **email address**. If you do not enter an email address, your email may be rejected. Some Internet providers will not accept email without a return address.

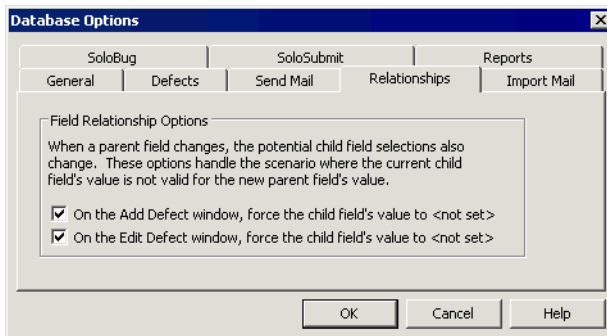
- 5 Select the **Closing defects** options. These options send notifications for closed defects.
 - Select **Send mail to defect's submitters if defect moves to a "Closed" state** to notify the submitters of the change. Select a submitter option from the dropdown list. If a defect is submitted by more than one person, each person is sent an email.
 - Select **Don't send notification if defect is added in a closed state** if you do not want a notification sent for defects added in a closed state. For example, you add a defect, enter defect information, add a fixed event, and add a verify & close event. You probably do not want to send a notification since the defect was added in the closed state.
 - Select an email template.
- 6 Select a **defect notification template**.
This template is used when notifications are sent to users or customers.
- 7 Click **OK** or click another tab to continue setting options.

Setting field relationship options

These options force a child field's value to **<not set>** if a parent field changes and the child field value is invalid.

Note: Text entries in version fields decrease the power of field relationships. For example, if **Version Found** is a child field, and users can add text entries, the value cannot be forced to **<not set>** because field relationship rules cannot be enforced.

- 1 Chose **Edit > Options > Database Options**.
- 2 Click the **Relationships** tab.



- 3 Select **On the Add Defect window, force the child field's value to <not set>** to enforce the field relationship and prevent data that does not make sense from being added.

- 4 Select **On the Edit Defect window, force the child field's value to <not set>** to enforce the field relationship and prevent data that does not make sense from being added.

Do not select this option if historical defect information is important and you want to preserve the original defect information.

- 5 Click **OK** or click another tab to continue setting options.

Setting import mail options

- 1 Chose **Edit > Options > Database Options**.
- 2 Click the **Import Mail** tab.

The screenshot shows the 'Database Options' dialog box with the 'Import Mail' tab selected. The 'Import Mail Options' section is expanded, showing the following settings:

- ☒ Enable importing defects via email
- POP3 Host: mail@wysicorp.com
- Account Name: QA Bugs
- Password: (masked with dots)
- TestTrack requires a dedicated email account. Please do not use a personal email account. ALL mail sent to this account will be imported into the database.
- Look for new files: 30 minutes
- ☒ Email an acknowledgement to the submitter
- Email template: Email Acknowledgement
- ☒ Enter next sequence number in defect's reference field
- Time to wait for initial connection response (seconds): 1
- Time to wait for other connection responses (seconds): 20

At the bottom of the dialog are buttons for 'OK', 'Cancel', and 'Help'.

- 3 Select **Enable importing defects via email** to enable email import.
- 4 Enter the **POP3 host** IP address or domain name.

All email from the specified account is imported. TestTrack Pro cannot determine which database an email should be imported into. In addition, TestTrack Pro cannot differentiate between personal and business emails. In addition, make sure the import email account is not the same as the return email account configured on the Send Mail tab. TestTrack Pro can get stuck in a loop if an email account uses an auto-reply and you configure TestTrack Pro to send an acknowledgment after importing mail.

- 5 Enter the **Account Name** and **Password**.

Leave the password field empty if a password is not required.

- 6 Select a **Look for new files** time interval.

You can override the selected interval at any time. Choose **File > Import > Perform Server Import**.

- 7 Select **Email an acknowledgement to the submitter** to automatically acknowledge the email.

Select the email template you want to use.

- 8 Select **Enter next sequence number in defect's reference field** to automatically enter the next defect sequence number.

- 9 Enter the **Time to wait for initial connection response**.

This is the time the TestTrack Pro server waits for an initial response from the email server.

- 10 Enter the **Time to wait for other connection responses**.

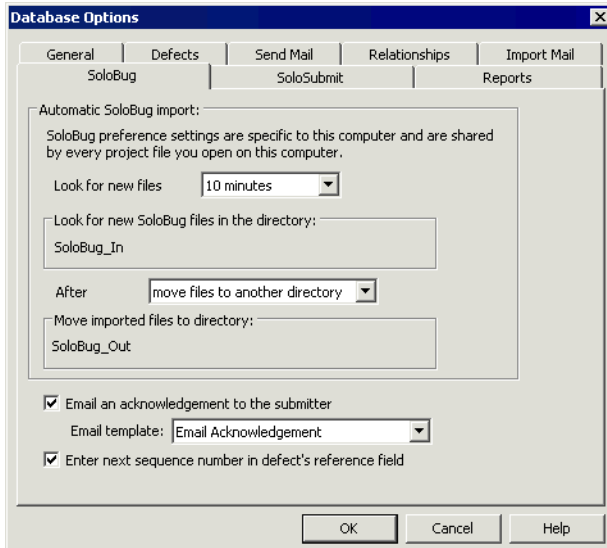
This is the time the TestTrack Pro server waits for other connection responses from the email server.

- 11 Click **OK** or click another tab to continue setting options.

Setting SoloBug options

- 1 Chose **Edit > Options > Database Options**.

- 2 Click the **SoloBug** tab.



- 3 Select a **Look for new files** time interval.

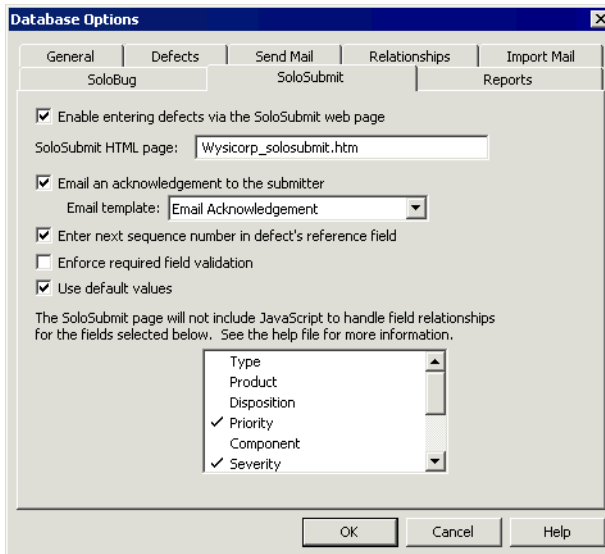
To manually import files, choose **File > Import > Perform Server Import**.

- 4 Select an **After importing** option.
- 5 Select **Email an acknowledgement to the submitted** to automatically send an acknowledgement.
Select the email template you want to use.
- 6 Select **Enter next sequence number in defect's reference field** to automatically enter the next sequence number in the reference field.
- 7 Click **OK** or click another tab to continue setting options.

Setting SoloSubmit options

Note: The **TestTrack Pro SoloSubmit Admin Guide** includes detailed information about configuring and customizing SoloSubmit.

- 1 Chose **Edit > Options > Database Options**.
- 2 Click the **SoloSubmit** tab.



- 3 Select **Enable entering defects via the SoloSubmit web page** to enable SoloSubmit.

Remember, this option is database-specific. SoloSubmit must be enabled for each database.

- 4 The SoloSubmit HTML page field defaults to **solosubmit.htm**.

If you use a customized SoloSubmit HTML page, enter the file name. Make sure the HTML file is in the correct TestTrack Pro directory on your web server.

- 5 Select **Email an acknowledgement to the submitter** to automatically send an email acknowledging the submission. This lets users and customers know their defect was received.

Select the email template you want to use.

- 6 Select **Enter next sequence number in defect's reference field** to automatically enter the next defect sequence number.
- 7 Select **Enforce required field validation** to ensure that values are entered for all required fields.

The required field validation is **not** enforced for the **Entered By** field because users do not log into SoloSubmit. If **Entered By** is a required field, defects entered via SoloSubmit cannot pass the required field validation check.

- 8 Select **Use default values** to initially populate the SoloSubmit web page with default values.

SoloSubmit **cannot** determine which time zone to use as **default values** for **date/time custom fields**. When a defect is submitted via SoloSubmit, there is no associated user in the database. Consequently, there are no user options to check to determine which time zone to use. The current time of the computer the SoloSubmit CGI is running on, when the SoloSubmit page is loaded, is used as the default value for date/time custom fields. In addition, the date is assumed to be in the server's time zone. The date/time is converted to GMT.

- 9 Select fields you do not want JavaScript to handle field relationships for on the SoloSubmit web page.

You would choose **not** to include the JavaScript for one of the following reasons:

- The SoloSubmit web page includes hidden fields. For example, you comment out a field you do not want the customer to see. You can delete the HTML, but the field, and its values, will still show up in the JavaScript. If the customer chooses View Source on the SoloSubmit web page, the field and its values will be shown. Choosing not to include the JavaScript resolves this issue.
- The SoloSubmit web page is customized and you do not want to overwrite the customization. For example, you only want a customer to be able to choose 3 out of 6 values for a field. You hard code a list of field values in the HTML. If you include the JavaScript, your customization is overwritten. By ignoring JavaScript for the field, the hard coded list values are used

If neither reason applies, and you select a field from the list, it could result in unexpected behavior. For example, you ignore JavaScript for **Component**, which is a child of **Product**. When SoloSubmit is accessed, **Product** and **Component** are populated with the initial values. If the user chooses a different **Product**, the **Component** values are not changed.

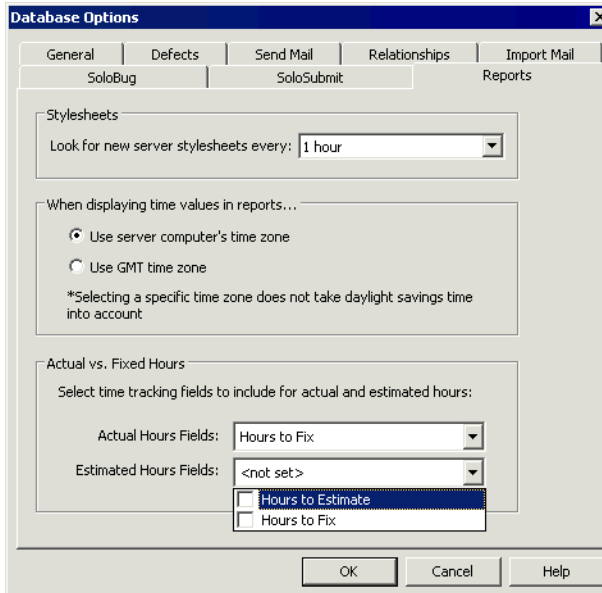
- 10 Click **OK** or click another tab to continue setting options.



Remember to give users and customers the SoloSubmit URL. To submit bug reports or feature requests, they simply open a browser and enter the SoloSubmit URL (e.g., <http://WysiCorp.com/ttweb/loginSoloSubmit.htm>).

Setting report options

- 1 Chose **Edit > Options > Database Options**.
- 2 Click the **Reports** tab.



- 3 Select a **Look for new server stylesheets every** time interval.

The server periodically searches the database for new stylesheets and updates the stylesheet menus.

- 4 Select a **time zone** option.

Detail reports display the creation and modified time at the bottom of the report. Configure the report to use the server's time zone or GMT.

- 5 Select the **time tracking** fields.

You can select which event time tracking fields to use for actual and estimated hours. When calculating the value, TestTrack Pro uses the selected events and determines which defect historical event(s) to use based on the "Sum of hours from all events of this type" or "Hours from last event of this type entered" event type setting.

- 6 Click **OK** or click another tab to continue setting options.

Logging historical defect information

Historical defect logging is an optional feature used to record the changes made to a specific defect. Users can view what has changed in a particular defect record, who made the change, and when the change was made on the History tab. Following are some of the functions that generate a historical defect log message: Adding or editing a defect or adding, editing, or deleting a defect action; Adding, editing, or deleting a found by record; Merging defects; or Assigning a defect number or renumbering defects.

Enabling historical defect logging

- 1 Choose **Edit > Options > Database Options**.
- 2 Click the **Defects** tab.
- 3 Select **Enable logging of historical defect information**.

Disabling this option does not affect any information already logged in the database.

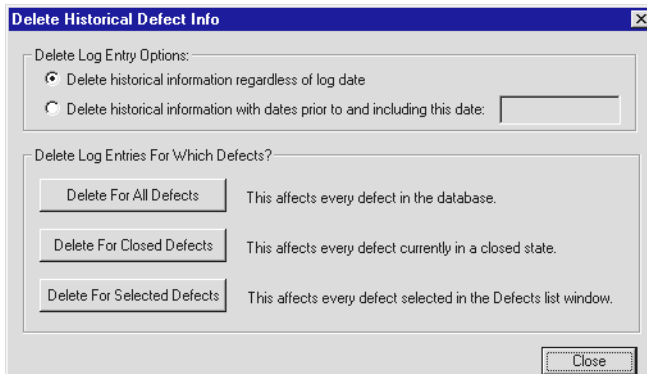
Deleting historical defect log information

If the database becomes too large because of historical log entries, you can delete entries. Deleting historical defect log entries does not reduce the amount of disk space used until the database is compressed. For more information, refer to the **Server Admin Utility Guide**.

Tip: To delete log entries for specific defects, select the defects before proceeding.

- 1 Choose **Configure > Delete Historical Defect Info**.

The Delete Historical Defect Info dialog box opens.



- 2 Select the **Delete Log Entry** options.
 - **Delete historical information regardless of log date** deletes all log entries.
 - **Delete historical information with dates prior to and including this date:** deletes log entries prior to and including the date you enter.
- 3 Click a **Delete Log Entries For Which Defects?** button.

You are prompted to confirm the deletion.
- 4 Click **Yes**.

The defect historical log information entries are deleted.

Chapter 14

Customizing the Workflow

Tailor the workflow...

...to match your existing processes. A customized workflow lets you define and follow your company's business processes. Customize the workflow instead of asking your users to change how they work.

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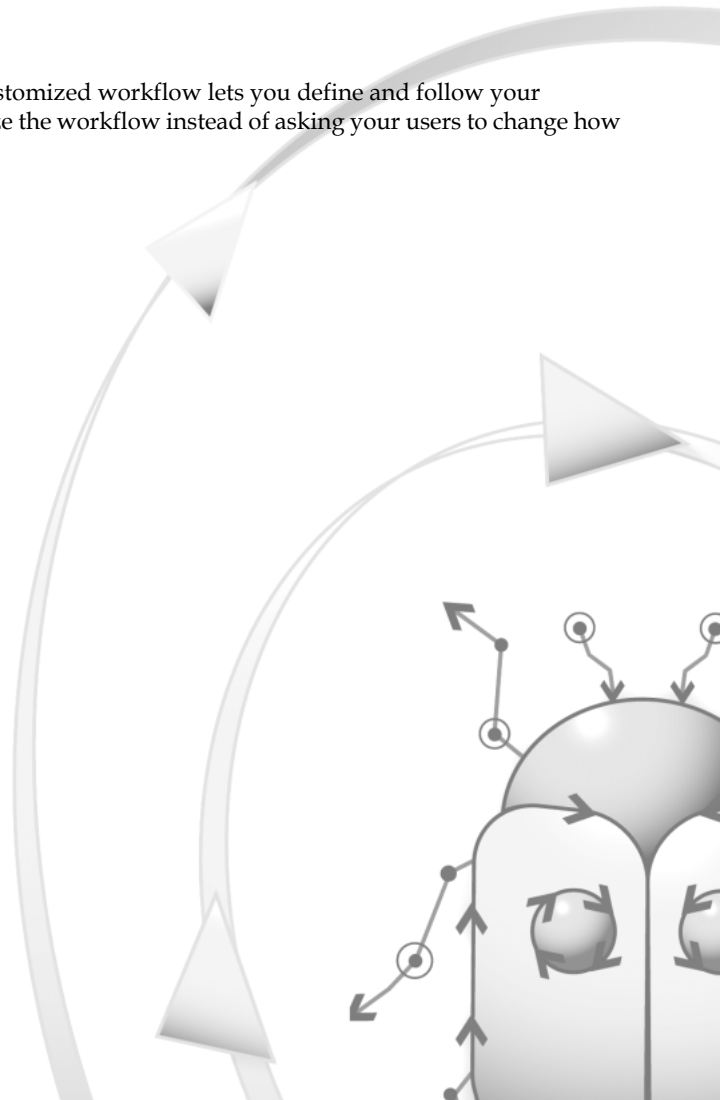
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About the workflow

A workflow consists of states, events, and transitions that define the path a defect takes from initial reporting to resolution. TestTrack Pro's standard workflow can be used "out of the box" to track software defects or you can customize the workflow to meet your company's business processes.

The workflow guides all users that participate in the process and tracks their activities. The complexity of your workflow depends on the process. Simple processes may only require a few steps while more complex processes may include multi-user assignments and stricter resolution requirements.

States

States represent a step in the workflow. The status field indicates the current state. For example, a defect is Open, Awaiting Customer Verification. States can also include rules for processing multi-user assignments. Defects move from state to state based on transition rules.

Events

Events represent the action that can be performed at each state, or step, in the workflow. For example, a QA engineer must test a bug fix.

Transitions

Transitions specify the initial state when a defect is created and the events that can be added for each state. They move defects from one state to another. For example, the allowed events for a Fixed state are Assign, Verify, or Force Close.

Analyzing your workflow

Before you customize the workflow, you should take the time to document and understand your company's business process. Analyzing your workflow helps you easily determine the states that are used, the actions that users perform, and how information moves through the workflow. A clearly defined workflow ensures that issues move from initial reporting to resolution and do not get stranded.

A carefully understood and customized workflow can guard against wasted time, redundancy, and disorganization. When analyzing your workflow, you should identify the steps that make up your business process and determine the actions that you want to associate with each step. The workflow should include a state for each step. In addition, consider the business process, the individuals involved in the process, the types of events they perform, the type of data they track, and the types of transitions that are used.

After the workflow is analyzed, you should be able to list most states, events, and transitions used throughout the process. To begin customization, you should first create the workflow states. Next, to transition defects, define the events that can be performed for each state. You can graphically view a workflow to help understand how the states, events, and transitions work together.

Customizing workflows

TestTrack Pro's workflow can be used "out of the box" to track defects and other issues such as change requests. However, your company may have other processes you want to track. You can create multiple TestTrack Pro databases, each with its own customized workflow, to track additional company processes.

For example, you may want to create a TestTrack Pro database and customized workflow for your human resources department. Most companies have a defined process for hiring new personnel. Customize the workflow to provide an easy and convenient way for your human resources staff to track hiring new staff from receiving a staffing request from a manager to training a new hire.

To customize a workflow, perform the following steps:

- Define states
- Define events
- Define transition rules, including multi-user assignments
- Define state assignment rules
- Configuring auto-assignment rules
- Configuring notification rules

Note: All other users must be logged out before you can customize the workflow.

It can be difficult to keep track of states, events, and transition and how they relate to each other. You can evaluate and graph the workflow to view potential problems and see a graphic representation of the workflow. See [Evaluating the workflow, page 162](#) and [Graphing the workflow, page 163](#) for more information.

Defining states

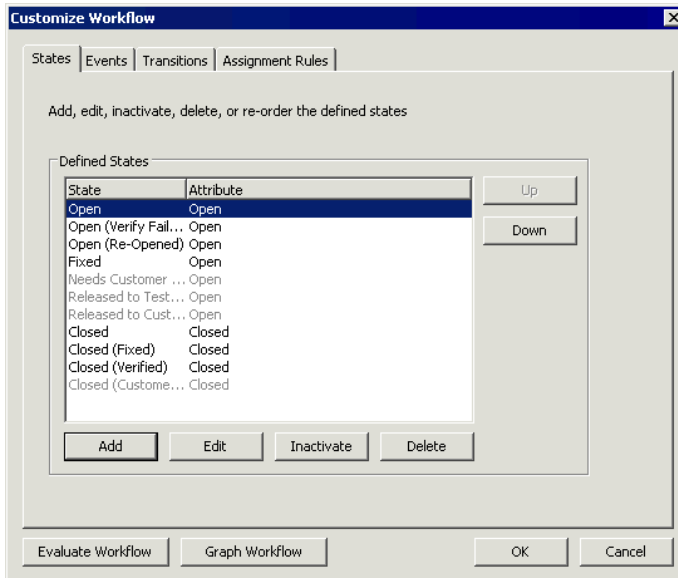
A defect is either open or closed. However, there are different states that an open or closed defect can have, based on process. For example, an open defect can be Open, On-Hold, Fixed, or Pending Verification. A closed defect can be Fixed, User Error, or Not Reproduced.

Your company workflow determines the number and variety of open and closed states. Each state includes a name, description, and attribute (open, closed).

Adding states

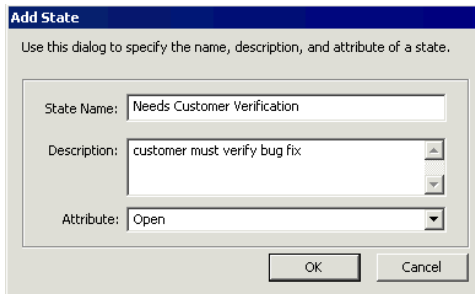
- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens with the **States** tab selected. The States tab list the defined states.



- 2 Click **Add**.

The Add State dialog box opens.



- 3 Enter a **State Name** and **Description**.
- 4 Select an **Attribute**.
- 5 Click **OK**.

The state is added.

Editing states

- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens with the **States** tab selected.

- 2 Select a state and click **Edit**.

The Edit State dialog box opens.

- 3 Make any changes and click **OK**.

Your changes are saved.

Inactivating states

To preserve historical information, inactivate a state instead of deleting it. You cannot inactivate a state if a defect is currently in the state.

- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens with the **States** tab selected.

- 2 Select a state and click **Inactivate**.

You are prompted to confirm the inactivation.

- 3 Click **Yes**.

The state is inactive.

Note: To activate an inactive state, select the state and click **Activate**.

Deleting states

You cannot delete states that are referenced in the database. If a state is referenced in the database, and you no longer want users to have access to it, inactivate it.

- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens with the **States** tab selected.

- 2 Select a state and click **Delete**.

You are prompted to confirm the deletion.

- 3 Click **Yes**.

The state is deleted.

Defining events

Events define the activities that can be performed on a defect. Each event defines an operation in the workflow that may cause the defect to move to a new status, cause another operation such as assigning the defect to other users, or simply record that the event occurred. A defect's history includes the events that have occurred for the defect. Some events are performed by users and other are automatic system events. For example, auto-assignment of defects based on auto-assign rules are system events.

Adding events

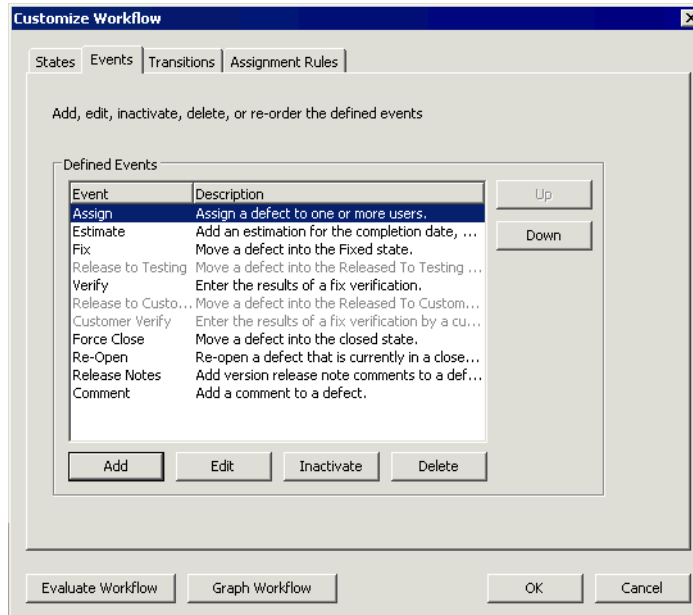
Events are accessed from the Activities menu or the defects shortcut menu.

- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens.

- 2 Click the **Events** tab.

The Events tab lists the defined events.



3 Click **Add**.

The Add Event dialog box opens with the **Details** tab selected.

The screenshot shows the 'Add Event' dialog box with the 'Details' tab selected. The 'Name' field contains 'Hire' and the 'Description' field contains 'Job offer was extended and accepted by candidate'. The 'Details' tab is active, showing several options: 'Informational Event' (unchecked), 'Resulting State' (set to 'Train'), 'Assignments' (radio buttons for 'Event results in a new assignment', 'Event does not affect the current assignment', and 'Event clears the current assignment'), 'File Attachments' (checked), 'Time Tracking' (checked, with radio buttons for 'Sum of hours from all events of this type' and 'Hours from last entered event of this type'), and 'Release Notes' (checked). At the bottom, there is a checkbox 'Enable for all existing user groups' which is checked, and 'OK' and 'Cancel' buttons.

4 Enter a **Name** and **Description**.

5 Select any **Details** options. The Details tab specifies the event details that determine the resulting state after the event is entered and what optional pre-defined fields are added to the event dialog.

- Select **informational event** to designate the event as an information-only event. Informational events can be added to the defect from any state in the workflow because they do not affect the workflow. When this option is selected, the assignment options are disabled.
- Select a **resulting state**. The resulting state determines the state the defect moves to after the event is entered. You can also select multiple states if you want the user to choose a state. For example, you may want users to select a specific state for a fix event so you select Fixed, Closed, or Closed (Fixed) as the resulting states. When users enter fix events, they are prompted to select a resulting state.
- Select an **assignments** option. These options indicate if the event results in an assignment. If **Event results in a new assignment** is selected, an assign to field is added to the event dialog.

- Select **Files can be attached to this event** to let users attach files to the event. If this option is selected, an attachments section is added to the event dialog.
 - Select **Display time tracking field using:** to track event time. Then select an hours option. If time tracking is selected, a time spent field is added to the event dialog. For example, you want to track time for fix and estimate events. You can set the estimate event to only display the hours from the last estimate event. You can set the fixed event to display the sum of hours from all fix events. You can add these fields to a report to view the estimated time and actual time.
 - Select **Include event notes with the release notes** to add any event notes to the release notes.
- 6 Click the **Custom** tab. The Custom tab is used to add custom fields and custom icons to the event.
- Click **Custom Fields** to add a custom field to the event. If this option is selected, a custom fields section is added to the event dialog. See [Configuring custom fields, page 168](#) for more information.
 - Click **Choose Icon** to add a custom event icon to the TestTrack Pro Windows defect action toolbar. The icon must be a .bmp file that is 16x16 pixels or smaller. If you do not add an icon to an event, the event will only be available from the Activities and shortcut menus. See [Defect action toolbar, page 58](#) for more information.
 - Enter a **graphic file** name to add a quick link icon to the TestTrack Pro Web page. The web pages require two quick link icons, one for the enabled event and one for the disabled event. The disabled quick link icon should use the same name and be preceded with "d_". For example, the disabled hire icon is named d_hir.gif because the enabled icon is named hire.gif. Both images must be added to the ttweb/images folder on the web server.

Add Event

Name:

Description:

Details Custom Fields

Custom Fields
Custom fields can be included with this event

Custom Event Icon
☐ Add a custom icon to the Windows client events toolbar

A custom quick link can be added to the Web client. Enter the name of the graphic file to use for the quick link. The graphic file must be placed in the images directory on the Web server.

Graphic file:

☒ Enable for all existing user groups

- 7 Click the **Fields** tab. The Fields tab lists the standard fields that are displayed on the event dialog. The list includes the field name, the long label, and the field code. The field name may also be referred to as a short label.
 - Select a field and click **Edit** to edit the name, the long label, or the field code.
 - Make any changes and click **OK**.

The screenshot shows the 'Add Event' dialog box with the 'Fields' tab selected. The 'Name' field is 'Hire' and the 'Description' is 'successful hire'. Below the tabs, a text box states: 'The following fields are displayed in the event dialog. You can edit the field labels and associated field codes.' A table lists the fields:

Name	Long Label	Field Code
Hire By	Hire By User	%Z_HIRBY%
Date	Hire Date	%Z_HIRDATE%
Notes	Hire Notes	%Z_HIRNTE%
Resulting State	Hire Resulting State	%Z_HIRRST%

Below the table is an 'Edit' button. At the bottom of the dialog are 'OK' and 'Cancel' buttons.



Field names, or short labels, are displayed in generated event dialogs. Long labels are displayed in dropdown lists. Long labels help users distinguish between the same fields in different events. Field codes automatically generate data and are used with such things as email templates or reports.

- 8 Click **OK**.

The event is added.

Editing events

- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens.

- 2 Click the **Events** tab.
- 3 Select an event and click **Edit**.

The Edit Event dialog box opens.

- 4 Make any changes and click **OK**.

Your changes are saved.

Inactivating events

To preserve historical information, inactivate an event instead of deleting it.

- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens.

- 2 Click the **Events** tab.

- 3 Select an event and click **Inactivate**.

You are prompted to confirm the inactivation.

- 4 Click **Yes**.

The event is inactive.

Note: To activate an inactive event, select the event and click **Activate**.

Deleting events

You cannot delete events that are referenced by the transitions tab or that are part of any defect's historical events.

- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens with the **States** tab selected.

- 2 Select an event and click **Delete**.

You are prompted to confirm the deletion.

- 3 Click **Yes**.

The event is deleted.

Defining transitions

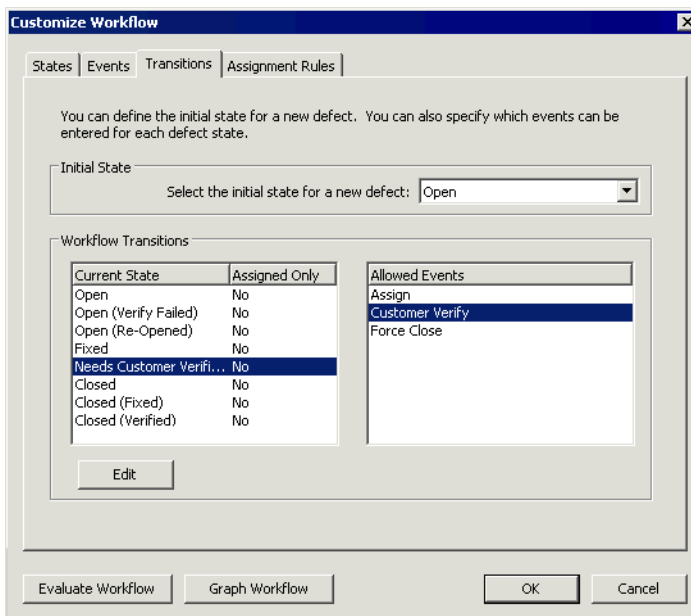
Transitions specify the initial state when a defect is created and the events that can be added for each state. Transitions help enforce the workflow by enabling event menu items and icons based on the current state of the defect. You can quickly view the events that are enabled for each state. You can also edit transitions to add or remove allowed events for each state.

Selecting the initial defect state

- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens.

- 2 Click the **Transitions** tab.



- 3 Select the **initial state for new defects**.

All new defects will be added in the selected state.

- 4 Click **OK**.

Editing transitions

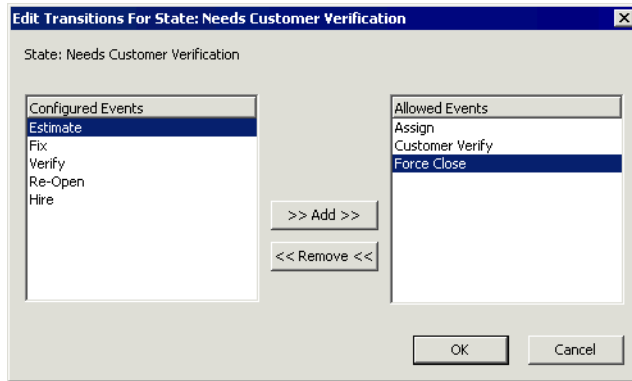
- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens.

- 2 Click the **Transitions** tab.

- 3 Select a state to view the allowed events.
- 4 Click **Edit** to add or remove the allowed events.

The Edit Transitions dialog opens.



- 5 **Add** or **Remove** events.
- 6 Click **OK**.
- 7 Click **OK**.

Your changes are saved and you return to the Customize Workflow dialog.

Defining assignment rules

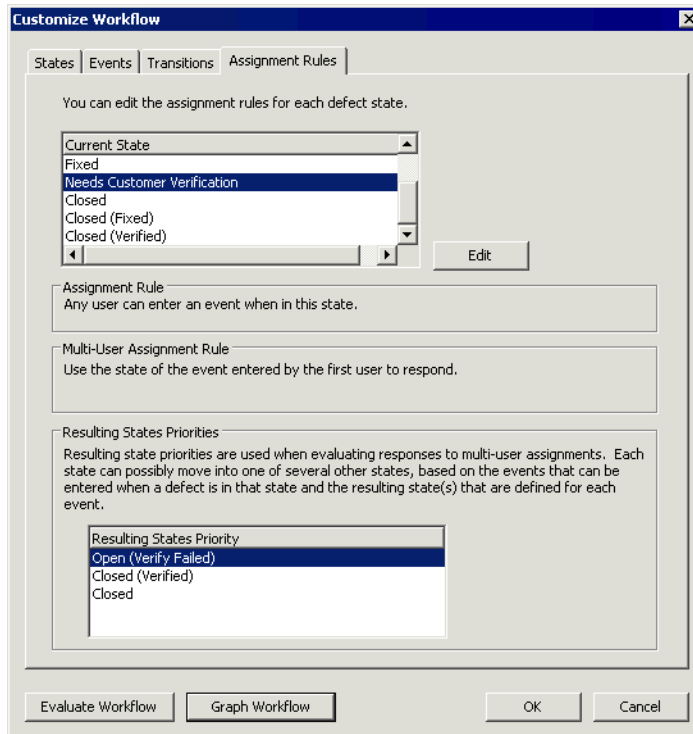
Assignment rules specify how state assignment events are processed. You can restrict which users can enter an event, specify multi-user assignment options, and change the process order of rules.

- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens.

2 Click the **Assignment Rules** tab.

Select a state to view its assignment rules and resulting state priorities.



- 3 Select a state and click **Edit** to change assignment rules or the resulting states priority.

The Edit Assignment Rules dialog box opens.

Edit Assignment Rules For State: Needs Customer Verification

State: Needs Customer Verification

Assignment Rules

☒ Only allow assigned users to enter an event when the defect is in the selected state

Multi-User Assignment Rules

When defects are assigned to multiple users, events entered by the users can indicate different resulting states. Select a rule to determine the resulting state:

☐ Use the state entered by the first user to respond

☐ Wait for all assigned users to respond then use the state with the highest priority

☒ Use the state with the highest priority and proceed as soon as an event with the highest priority is entered

Resulting States Priority

Order the resulting states in highest to lowest priority.

Resulting States Priority
Open (Verify Failed)
Closed (Verified)
Closed

Up

Down

OK Cancel

- 4 Select **Only allowed assigned users to enter an event when the defect is in the selected state** to make sure that only assigned users can enter an event.
- 5 Select a **multi-user assignment rules** option to determine the resulting state if a conflict occurs. Defects may have different resulting states when they are assigned to multiple users.

Note: Options change based on the selected assignment rules. For example, if **Use the state entered by the first user to respond** is selected, the resulting states priority cannot be changed because priority does not affect this option.

- **Use state entered by first user to respond** processes the event entered by the first user and moves the defect to the corresponding state. If the event moves the defect to a new state or affects the current assignment, the remaining assignments are removed. If the event leaves the defect in the current state or does not affect the current assignment, the remaining assignments are not removed and users can still enter events. For example, the first user enters a “Verify Fixed” event. The defect moves to “Close” and the other assigned users are removed from the list of current assignments.
- **Wait for all assigned users to respond then use the state with the highest priority** accepts events from assigned users then uses the event with the highest resulting state to determine the next state. For example, one user enters “Verify Fixed” resulting in a Close state and another user enters “Verify Failed” resulting in an “Open” state. The defect moves to “Open” because it has the highest priority.

- **Use the state with the highest priority and proceed as soon as an event with the highest priority is entered** accept events from assigned users until an event with the highest resulting state priority is entered or until all users have responded. If all users respond, and an event with the highest resulting state is not entered, the highest resulting state of the entered events is used. For example, “Open” is the highest resulting state. As soon an event with “Open” as a resulting state is entered, the defect moves to “Open” and the assignment list is cleared. If all users enter events with “Close” as a resulting state, the defect moves to “Close”.
- 6 To reorder the **resulting states priority**, select a state and click **Up** or **Down**.
 - 7 Click **OK**.

Your changes are saved.

Configuring auto-assignment rules

Auto-assignment rules, which only run if a defect is not assigned to a user when changes are saved, automatically move a defect from state to state and assign the defect to a specified user. When a defect is moved into a state with an auto-assignment rule, TestTrack Pro checks the rules in top-down order. If the defect passes a filter, the assignment action is applied. If the defect does not pass the filter, the next rule is checked until the defect passes a filter. If the defect does not pass any of the filters, the default action is applied.

For example, if your team is in Beta testing, you want to make sure that defects failing verification get immediate attention. If the **Defect fails verification**, two auto-assignment rules are checked. If the defect’s filter is **Failed Fix**, the defect is automatically assigned to the last Fixed by User. This user can review why the fix failed and make the necessary adjustments so the defect can pass. If the filter is not **Failed Fix**, the second rule is checked. If the defect’s filter is **On hold**, the defect is automatically assigned to the project administrator. The administrator determines if the issue needs to be resolved in Beta or at a later time.

You can also select a default auto-assignment action to use if you do not want to configure rules or if a defect does not pass the auto-assignment rule filter. For more information, see [Setting default actions](#), page 157.



Keep the following in mind:

A state will only show up in the auto-assignment rules state list if it has at least one valid assignment event that can be entered for that state in the workflow transition. A valid assignment event is an assignment event that cannot change the current state of the defect.

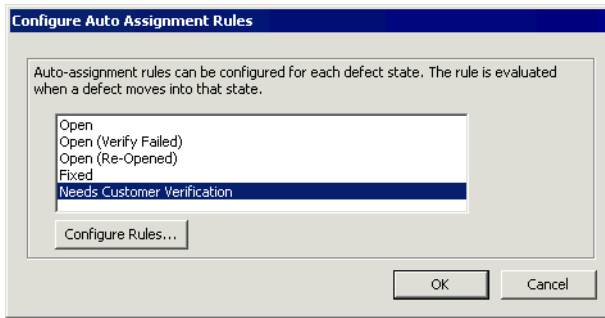
Auto-assignment rule exceptions

Auto-assignment processing is skipped when a defect is created using XML import, text import, or by duplication. For example, if you duplicate a defect that is unassigned, the new defect is also unassigned. If you duplicate a defect that is assigned to Barry, the new defect is also assigned to Barry.

Adding auto-assignment rules

- 1 Choose **Configure > Auto-Assignment Rules**.

The Configure Auto-Assignment Rules dialog box opens.

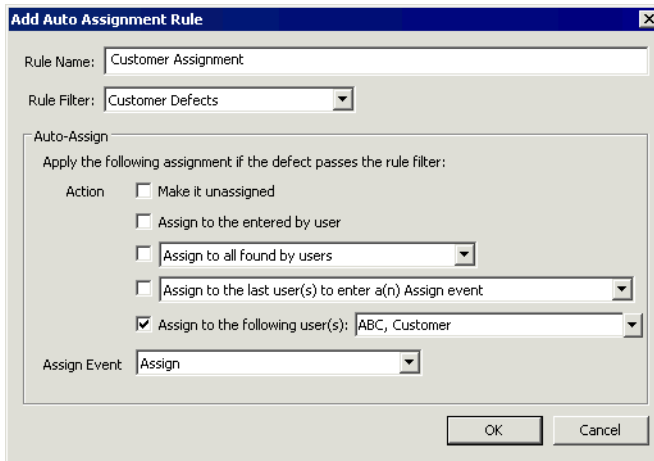


- 2 Click **Configure Rules**.

The Configure Rules dialog box opens.

- 3 Click **Add**.

The Add Auto-Assignment Rule dialog box opens.



- 4 Enter a **Rule Name**.
- 5 Select a **Rule Filter**.

The filter list displays the public and private filters you have access to.

6 Select an auto-assign **Action**.

- **Make it unassigned** does not assign the defect to a user.
- **Assign to the entered by user** assigns the defect to the user who entered the defect.
- **Assign to the found by user** assigns the defect to all found by users, the first found by user, or the last found by user.
- **Assign to the last user(s) to enter...** assigns the defect to the user who last entered the selected defect event. The list includes all of the events defined for the workflow in the database. If the last user entered the event in response to a multi-user assignment event, the auto-assignment is applied to all users who responded to the event.
- **Assign to the following user(s)** assigns the defect to the selected users or customers.

7 Select an **Assign Event**.

To save rules, select a valid assign event from the dropdown list. Valid events must be active, result in a new assignment, and only allow <No State Change> as the resulting state.

8 Click **OK**.

The rule is added.

Note: Rules are checked in top-down order. To change the rule order on the Configure Rules dialog, select a rule and click **Move Up** or **Move Down**.

Setting default actions

You can set a default action for each defect state if you do not want to configure auto-assignment rules.

1 Choose **Configure > Auto-Assignment Rules**.

The Configure Auto-Assignment Rules dialog box opens.

2 Select a defect state and click **Configure Rules**.

The Configure Rules dialog box opens.

3 Select a **Default action** and click **OK**.

You should set a default action for each defect event.

Editing auto-assignment rules

1 Choose **Configure > Auto-Assignment Rules**.

The Configure Auto-Assignment Rules dialog box opens.

- 2 Click **Configure Rules**.

The Configure Rules dialog box opens.

- 3 Select a rule and click **Edit**.

- 4 Make any changes and click **OK**.

Your changes are saved.

Inactivating auto-assignment rules

If there is a rule that is no longer in use, inactivate it instead of deleting it. You can easily activate the rule if you decide to use it again.

- 1 Choose **Configure > Auto-Assignment Rules**.

The Configure Auto-Assignment Rules dialog box opens.

- 2 Click **Configure Rules**.

The Configure Rules dialog box opens.

- 3 Select a rule and click **Inactivate**.

The rule is inactivated.

Note: To activate an inactive rule, select the rule and click **Activate**.

Deleting auto-assignment rules

Delete rules if you are certain you will not use the rule again. You can also inactivate a rule to disable it.

- 1 Choose **Configure > Auto-Assignment Rules**.

The Configure Auto-Assignment Rules dialog box opens.

- 2 Click **Configure Rules**.

The Configure Rules dialog box opens.

- 3 Select a rule and click **Delete**.

The rule is deleted.

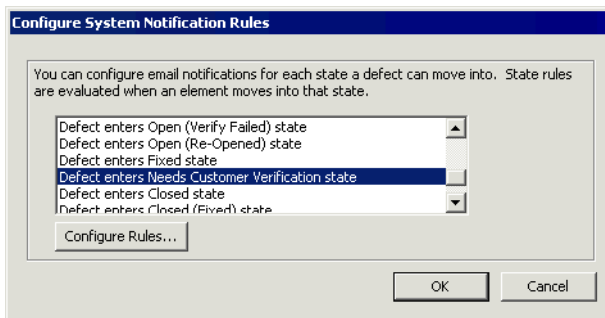
Configuring system notification rules

Configure system auto-notification rules to automatically inform users about events, such as status changes, via email. Email notifications can be configured for each state defined for defects. Notifications only inform users of the event change, they do not assign users a task. System auto-notifications rules are configured by the administrator and are run in addition to any personal email notifications users set up.

Adding system notification rules

- 1 Choose **Configure > System Notification Rules**.

The Configure System Notification Rules dialog box opens.

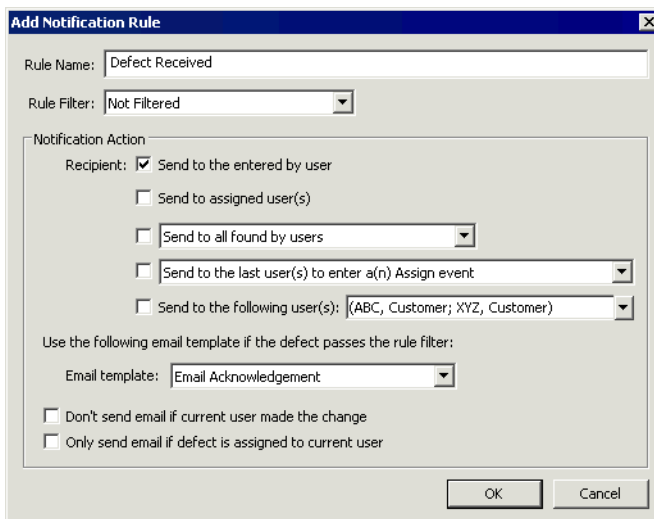


- 2 Click **Configure Rules**.

The Configure System Notification Rules dialog box opens. The notification name is listed in the top left corner of the dialog box.

- 3 Click **Add** to add a rule.

The Add Notification Rule dialog box opens.



4 Enter a Rule Name.**5 Optionally select a Rule Filter.**

If a database contains a large number of defects, you may want to filter the defects the rule is applied to. If you need to add filters, see [Creating filters, page 72](#).

6 Select a Recipient.

- **Send to the entered by user** sends the email notification to the user who entered the defect.
- **Send to assigned user(s)** sends the email notification to all assigned users.
- **Send to the found by user** sends the email notification to all found by users, the first found by user, or the last found by user.
- **Send to the last user(s) to enter...** sends the email notification to the user who last entered the selected defect event. The list includes all of the events defined for the workflow in the database. If the last user entered the event in response to a multi-user assignment event, the notification is sent to all users who responded to that event.
- **Send to the following user(s)** sends the email notification to the selected users or customers.

7 Select an Email Template.

Remember, users will be able to view all information in the email that is sent. For example, you add a system notification rule that sends an email when a customer reports a defect. Do not select an email template that includes restricted information, such as the defect status or the defect number. You may not want customers to have access to this information.

- 8 Select Don't send email if current user made the change** if you do not want the user who made the change to receive an email notification. For example, if JoeQA changes a defect, he probably does not need to be sent an email notifications regarding the status change.
 - 9 Select Only send email if defect is assigned to current user** if you only want the assigned user who made the change to receive an email notification.
- 10 Click OK.**

The rule is added.

Editing system notification rules

1 Choose Configure > System Notification Rules.

The Configure System Rules dialog box opens.

2 Click Configure Rules.

The Configure Rules dialog box opens.

3 Select a rule and click Edit.

- 4 Make any changes and click **OK**.

The changes are saved.

Inactivating system notification rules

If there is a rule that is no longer in use, inactivate it instead of deleting it. You can easily activate the rule if you decide to use it again.

- 1 Choose **Configure > System Notification Rules**.

The Configure System Notification Rules dialog box opens.

- 2 Click **Configure Rules**.

The Configure Rules dialog box opens.

- 3 Select a rule and click **Inactivate**.

The rule is inactivated.

Note: To activate an inactive rule, select the rule and click **Activate**.

Deleting system notification rules

Delete rules if you are certain you will not use the rule again. You can also inactivate a rule to disable it.

Note: Make sure you want to delete the rule. You are not prompted to confirm the deletion and this action cannot be undone.

- 1 Choose **Configure > Auto-Notification Rules**.

The Configure System Notification Rules dialog box opens.

- 2 Click **Configure Rules**.

The Configure Rules dialog box opens.

- 3 Select a rule and click **Delete**.

The rule is deleted.

Overriding the workflow

If a defect is assigned to multiple users and events can only be entered by assigned users, the defect can be delayed if a user is out of the office or busy with other tasks. You can override the workflow to move the defect to another state.

- 1 Open the defect you need to override the workflow for.

All workflow events are disabled after the defect is open.

- 2 Choose **Activities > Override Workflow**.

The valid events for the current state are enabled.

- 3 Select an event from the **Activities** menu.

The defect moves to the resulting state for the selected event. A workflow override entry is added to the workflow tab.

Evaluating the workflow

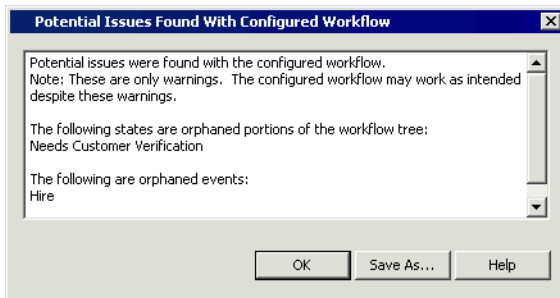
When you customize a workflow, you may find it helpful to periodically evaluate the workflow for potential issues. If any issues are found, you can correct the issues before continuing. For example, if a state is set to only allow assigned users to enter an event for that state, but the state can be reached through an event other than as assign event, it is returned as a potential issue that should be fixed.

- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens.

- 2 Click **Evaluate Workflow**.

The Potential Issues dialog opens. All potential issues are listed on the dialog.



- 3 Click **Save As** to save the information as a text file.

- 4 Click **OK** to close the dialog.

Graphing the workflow

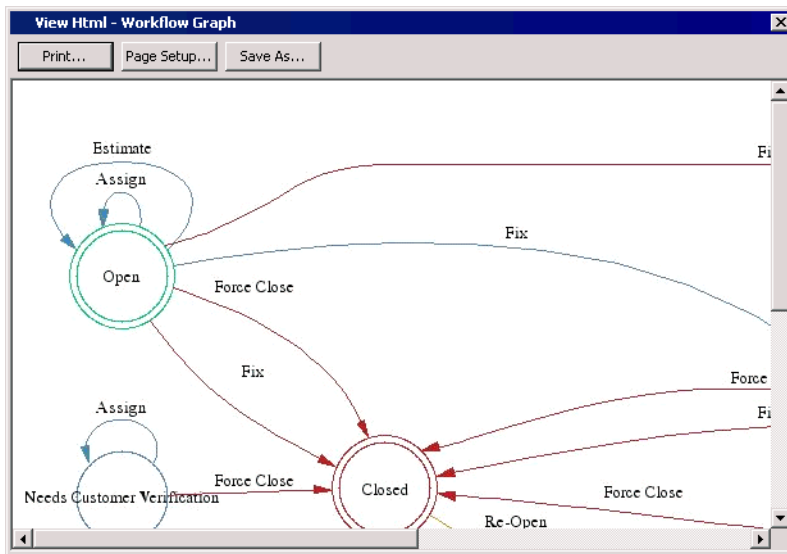
Graph the workflow to view a visual representation of the workflow. This can help you solve issues and quickly view configured states and events the state, events, and transitions.

- 1 Choose **Configure > Workflow Rules**.

The Customize Workflow dialog opens.

- 2 Click **Graph Workflow**.

The Workflow Graph dialog opens.



- 3 Click **Save As** to save the workflow as a .jpg file.

Saving the workflow as a .jpg file provides easier viewing and lets you scale the image for printing.

- 4 Click **Page Setup** to change the printer options such as paper size.
- 5 Click **Print** to print the workflow.

Chapter 15

Customizing Fields

Customize fields...

to collect the data you need. The data you collect is one of the most important parts of the defect tracking process. TestTrack Pro lets you customize fields to meet your company's requirements and make sure users are providing the information you need. You can also rename field labels and change existing field data.

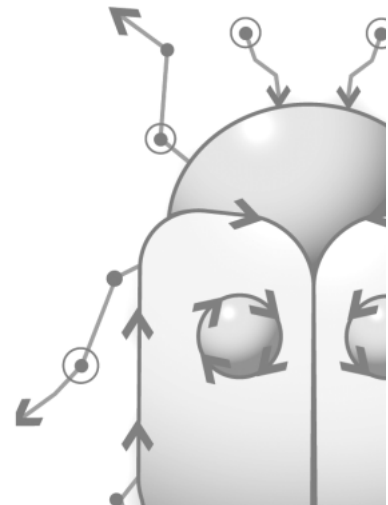
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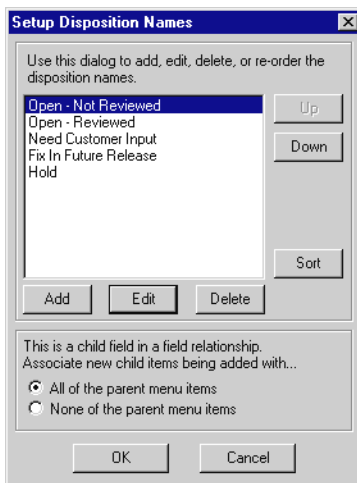
Configuring list values

You can configure menu list values to customize TestTrack Pro with your company's terminology. The list values you configure are database-specific. You can configure type names, priority names, severity names, product names, component names, disposition names, reproduced names, and version names.

Adding list values

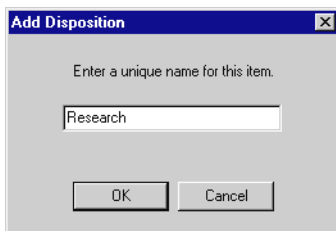
- 1 Choose **Configure > List Values**. Then select the group you want to add the field to. This example uses disposition, which is a child field.

The Setup Disposition Names dialog box opens. The setup dialog box changes based on the field type. For example, if you add a value to a parent field, you are reminded to configure field relationships for the new value.



- 2 Click **Add**.

The Add Disposition dialog box opens.



- 3 Enter a disposition field name and click **OK**.

You return to the Setup Disposition Names dialog box.

- 4 Select the association for the field. Remember, in this example, disposition is a child field.

You can associate the new child field with all of the parent menu items or none of the parent menu items.

Tip: You can also manually configure the parent-child field relationship. Go to **Configure > Field Relationships**. For more information, see [Configuring field relationships](#), page 172.

- 5 Click **OK** when you finish adding field values.

Editing list values

- 1 Choose **Configure > List Values** then select the group containing the field value you want to edit.
- 2 Select the name and click **Edit**.

The Edit Defect Type dialog box opens.

- 3 Enter a new name and click **OK**.

The list is updated with the new name. To reorder field names, select the name and click the **Up** or **Down** button. You can also sort all field names in ascending or descending order.

Deleting list values

- 1 Choose **Configure > List Values** then select the group containing the field name you want to delete.
- 2 Select the name and click **Delete**.

If the field name is used by a defect, you are prompted to reassign the field name to one of the existing field values. The field value cannot be deleted until it is reassigned.



If a database uses field relationships and you delete an item from a menu, you may cause a child field's value to no longer follow field relationship rules. If you try to delete a field that is used in a field relationship, you will receive a warning indicating the action may result in defects that do not follow the field relationship rules.

Configuring custom fields

You can add up to 100 custom fields to a database. All custom fields can be displayed on the Custom Fields tab or up to two custom fields can be displayed in the main area of the Add Defect, Edit Defect, and View Defect dialog boxes.

Adding custom fields

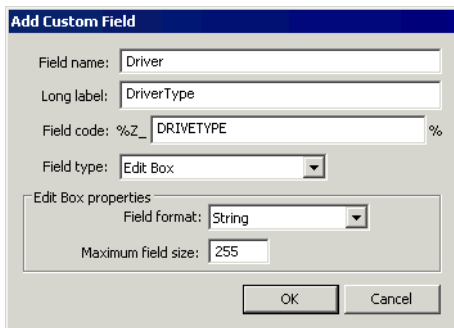
Note: Make sure all users are logged out of TestTrack Pro. You cannot add custom fields if other users are logged in.

- 1 Choose **Configure > Custom Fields**.

The Set Up Custom Fields dialog box opens.

- 2 Click **Add**.

The Add Custom Fields dialog box opens.



- 3 Enter a **Field name**.
- 4 Enter the **Long Label**.

Long labels are displayed in dropdown lists and help users distinguish between the same fields in different events.

- 5 Enter the **Field Code**.

The field code automatically generates data and lets you use the custom field with email templates, reports, or SoloSubmit.

- 6 Select a **Field type**.

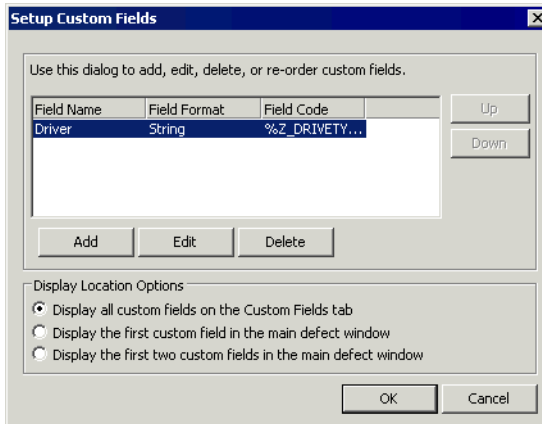
- **Edit box** lets users enter a value. After choosing this field type, select string, integer, or decimal number as the **Field format** and enter the **Maximum field size**.
- **Date/Time** creates a date/time field. When users select this type of custom field, the current date and time is set. Users can change the date and time

- **Check box** creates a check box field. The check box custom field works the same as other check boxes; users select or clear the check box.
- **Pop-up menu** lets you define the menu values. After choosing this field type, click **Setup Pop-Up Menu Items** to add values to the pop-up menu.

Note: If you add a field that will be used in a field relationship, select **Pop-Up Menu**. This field type lets you restrict the information users can enter.

- 7 Click **OK**.

You return to the Setup Custom Fields dialog box.



- 8 Select the **Display Location** options.

You can display all custom fields on the Custom Fields tab or display up to two custom fields on the Add, Edit, and View Defect dialog boxes.

- 9 Click **OK**.

Editing custom fields

- 1 Choose **Configure > Custom Fields**.
- 2 Select the custom field and click **Edit**.

The Edit Custom Fields dialog box opens.

- 3 Make any changes and click **OK**.

You cannot change the Display Location option if other users are logged in to TestTrack Pro.

- 4 Click **OK**.

Deleting custom fields

- 1 Choose **Configure > Custom Fields**.
- 2 Select the custom field and click **Delete**.

You are prompted to confirm the deletion.
- 3 Click **Yes**.

The custom field is deleted.
- 4 Click **OK**.

Defining required fields and default values

You can set any defect or defect action input field, including custom fields, as a **required field**. When a field is required, a user **must** enter data in that field before TestTrack Pro will add the defect or defect action to the database or save any edit changes. You can also define **default values** for most fields on the Add Defect or Defect Action dialog box. Required fields and default field values are database-specific.



Required fields are set for all users. Field level security is set for User Groups. For example, the Priority field is required but does not have a default value. A User Group is created for customers, with permissions to add defects. The Priority field is hidden for both Add and Edit privileges. Customers find out they are not able to add defects. Why? The Priority field is required but the Customer Group does not have access to the field. An easy workaround is to grant access to the Priority field when adding defects and hide the Priority field when editing defects.

The required field must be populated for all instances of actions. For example, the Found By field is required and does not have a default value. When multiple detail records are created for a single defect, the Found By field must be populated for all detail records.

- 1 Choose **Activities > Required Fields & Default Values**.

The Required Fields & Default Values dialog box opens.

Select the field group from the menu

Required Fields & Default Values

General Fields

Required Field

Default Value

Summary	<input checked="" type="checkbox"/>	<blank>
Type	<input checked="" type="checkbox"/>	<not set>
Priority	<input type="checkbox"/>	<not set>
Disposition	<input type="checkbox"/>	<not set>
Product	<input type="checkbox"/>	<not set>
Component	<input type="checkbox"/>	<not set>
Reference	<input type="checkbox"/>	<not set>
		Component 1
		Component A

You can also click these arrows to move through the groups.

- 2 Select the field group from the menu.

Field types are grouped together for easy reference.

- 3 To set a required field, select the corresponding check box.

A field that is set using check boxes and/or radio buttons cannot be set as a required field.

- 4 To set a default value, select a value from the corresponding menu.

- 5 **Repeat steps 2 - 4** until required fields and default values are set for each group.

- 6 Click **OK**.

If a field is **always required**, the check box is selected and inactive. If a field **cannot be set** as a **required field**, the check box is not selected and it is inactive. If a **default value cannot be set** for a field, the menu value is labeled **<blank>** and it is inactive.

	Required Field	Default Value
Fixed By	<input checked="" type="checkbox"/>	<current user>
Fixed Verify/Close	<input checked="" type="checkbox"/>	Fix, needs verification
Date Fixed	<input checked="" type="checkbox"/>	<not set>
Fixed Resolution	<input checked="" type="checkbox"/>	<not set>
Fixed In Version	<input type="checkbox"/>	<blank>
Hours To Fix	<input type="checkbox"/>	<blank>
Affects Documentation?	<input type="checkbox"/>	<unchecked>
Affects Test Plan?	<input type="checkbox"/>	<unchecked>



How do default values affect field relationships?

A child field's default value may be invalid, depending on the parent field's default value. If a default value that does not follow the defined field relationships is selected, the default value can still be used but the child field's value will no longer follow field relationship rules.

How do hidden fields affect field relationships?

A hidden child field can cause unintended changes. If you change a parent field, you may cause a child field's value to no longer follow field relationship rules. Additionally, if the child field is required, any changes that are made cannot be saved.

Editing required fields and default values

- 1 Choose **Activities > Required Fields & Default Values**.

The Required Fields & Default Values dialog box opens.

- 2 Select the field group you want to edit from the menu.

- 3 To clear a required field, click the corresponding check box.

The field is no longer required.

- 4 To change a default value, select a different value from the corresponding menu.
- 5 Click **OK** to save your changes.

Configuring field relationships

Parent-child field relationships create dependent items in the database and let you configure menus so users can only select values based on the field relationship. This helps users input better data and make more logical choices. You should think about how to best use this powerful feature before you configure field relationships.

- The following fields can be set as **parent fields**: type, product, disposition, priority, component, severity, custom fields.
- The following fields can be set as **child fields**: type, product, disposition, priority, component, severity, version found, reproduced, computer config, custom fields.
- The following fields cannot be set as parent or child fields: entered by, found by, fixed by.



When a field that is part of a parent-child relationship is selected, the child field is populated with values based on the parent field. For example, Product is the parent field of Component and Version. Component is the parent field of Routine, which is a custom field. When a user adds a defect, the Component and Version fields are populated based on the selected Product field value. The Routine field is populated with values based on the selected Component field value.

Adding field relationships

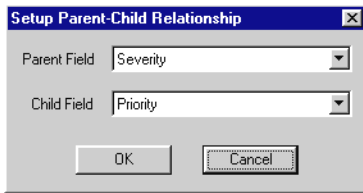
- 1 Choose **Configure > Field Relationships**.

The Field Relationship Selection dialog box opens.

Note: If you use a custom field in a field relationship, it must be configured as a pop-up menu field.

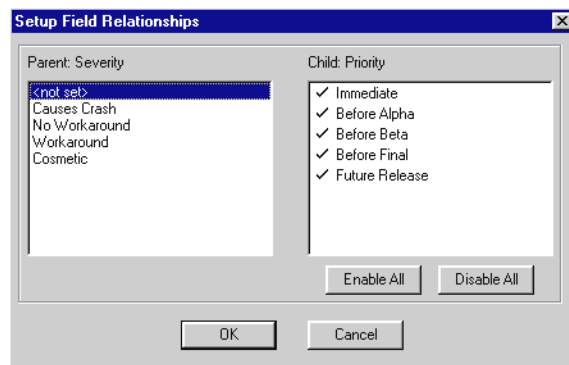
2 Click **Add**.

The Setup Parent-Child Relationship dialog box opens.



3 Select the parent field from the menu then select the child field and click **OK**.

The Setup Field Relationships dialog box opens.



4 For each field in the parent list, enable or disable the child list fields.

The child list displays each of the child field values with the default state for each value selected. If you add additional field values to the child list, the values automatically appear unless they are disabled.

Note: A **parent field** can have **one or more** child field relationships. A **child field** can only have **one** parent. A child field can also be the parent of another field.

When a field is set as a child field, it is excluded from the child field list. For example, Priority is the child field of Severity. When you add a field relationship, you cannot select Priority as a child field.

To prevent a circular reference, fields that are a parent or grandparent of the selected parent field are excluded from the parent list. For example, Product is the parent field of Component. Component is the parent field of Version. You cannot set Version as the parent field of Product because a circular reference is created.

- 5 Click **OK** when you finish setting up the field relationship.

You return to the Field Relationship Selection dialog box.

- 6 Click **OK** to close the dialog box or click **Add** to add another field relationship.



What if a database uses default values?

The child field's default value may be invalid, depending on the parent field's default value. If a default value is selected, and it does not follow the defined field relationships, the default value can still be used.

What if a database uses hidden fields?

Hidden fields can cause unintended changes. If a parent field is changed, causing the child field value to be, the child field may be changed to **<not set>**, depending on database options. Additionally, if the child field is required, any changes that are made cannot be saved.

Editing field relationships

- 1 Choose **Configure > Field Relationships**.

The Field Relationship Selection dialog box opens.

- 2 Select the field relationship and click **Edit**.

The Setup Field Relationships dialog box opens.

- 3 Make any changes and click **OK**.

Deleting field relationships

- 1 Choose **Configure > Field Relationships**.

The Field Relationship Selection dialog box opens.

- 2 Select the field relationship and click **Delete**.

You are prompted to confirm the deletion.

- 3 Click **Yes**.

The field relationship is deleted.

Renaming field labels

Note: Renaming a field label does not change the functionality or format of the field, it only changes the label displayed in TestTrack Pro.

You can rename defect field labels to match your company’s terminology to help customize your tracking system and decrease user confusion. For example, if you are a service-oriented organization, and use the Custom Fields tab to track service issues, you can rename the tab to Service.

- Changes you make to field labels do not show up in SoloBug. As a stand-alone product, SoloBug is not necessarily associated with one database. Field names can be changed when you customize the SoloBug executable.
- Field codes do not change. For example, Disposition (%DISP) is renamed to Substatus. You want to include the Substatus field data in an email template. You would use %DISP% to return the field data.
- Database columns are not renamed. If you use the ODBC driver, the original field name must be used.

- 1 Choose **Configure > Rename Field Labels**.

The Rename Field Labels dialog box opens.

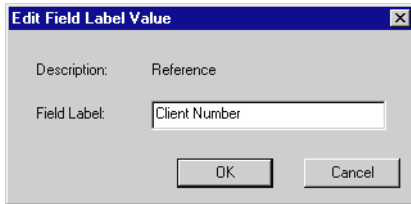
Description	Field Label
Defect	Defect
defect	defect
Defects	Defects
defects	defects
Defect(s)	Defect(s)
defect(s)	defect(s)
Summary	Summary
Type	Type
Disposition	Disposition
Priority	Priority
Product	Product
Component	Component
Reference	Reference



Date is the short form of Date Found. Version is the short form of Version Found. If you rename these field labels, use the same terminology. The short and long field names are both used. The short name is used to allow fields to fit in the user interface.

- 2 Select the field you want to rename and click **Edit**.

The Edit Field Label Value dialog box opens.



- 3 Enter the **Field Label** and click **OK**.

Field labels cannot be resized in the user interface and should not be longer than 32 characters. Field labels that do not fit in the allotted space are truncated.

- 4 Repeat **steps 2 and 3** for each field label you want to rename.
- 5 When you finish, click **OK** on the Rename Field Labels dialog box.

Your changes are saved and the database is updated with the new field labels.

Note: Renaming a field does not affect image files. In the Web interface, the tabs are image files (.gif). For example, if you rename the Custom Fields tab to Services, it will only affect the Windows client. To change the tab name in the Web interface, you can manually modify the graphic. Image files are generally stored in: inetpub/wwwroot/ttweb/images. Most graphics include two images, one for a selected tab and one for a non-selected tab.

Restoring original labels

You can restore the field labels to their original values at any time.

- 1 Choose **Activities > Rename Field Labels**.

The Rename Field Labels dialog box opens.

- 2 Click **Restore to Original Values**.

The field labels revert to the original values.

- 3 Click **OK** to save the changes. If you do not want to save the changes, click **Cancel** then click **No**.

Chapter 16

Configuring SCC Integration

Integrate your SCC solution...

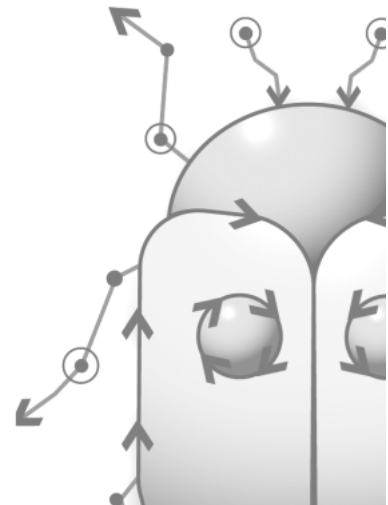
with TestTrack Pro! In just a few minutes, you can configure SCC integration and associate specific defects logged in TestTrack Pro with your source code.

About SCC applications and TestTrack Pro, 178

Configuring SCC integration, 178

Disabling SCC integration, 181

SCC application notes, 182



About SCC applications and TestTrack Pro

Among other SCC functions, users can attach and detach source files to and from defects. Users can also check out the code to fix a defect, while viewing the defect. When checking in code, users can apply the same comment to all components. You will know when and why code changed and what new changes need to be included in your next build. The following SCC applications can be integrated with TestTrack Pro:

- CS-RCS
- CVS
- ClearCase
- PVCS
- Perforce
- SourceOffSite Classic
- StarTeam
- Surround SCM
- Visual SourceSafe

Configuring SCC integration



Make sure you create a user group that can access source code control commands, including the SCC tab. Remember, all users must configure their local and user options.

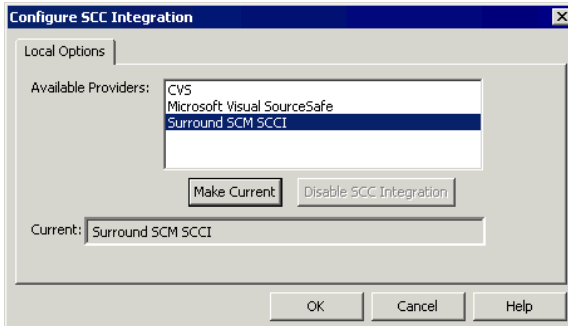
- 1 Choose **Configure > SCC Integration**.

The Configure SCC Integration dialog box opens with the Local Options tab selected. The Local Options tab is the only tab available until you select an SCC application.

Note: CVS is always displayed in the Available Providers list. Do not set up CVS integration if CVS is not installed on your computer.

- 2 Select the application you want to use from the Available Providers list and click **Make Current**.

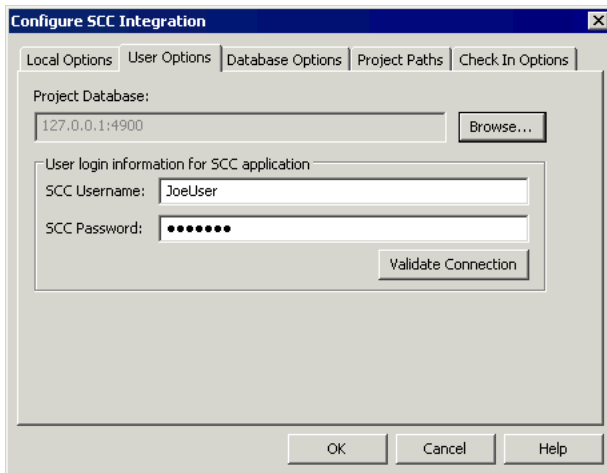
The application you selected is listed in the Current box.



- 3 Click the **User Options** tab.

This tab is used to select the project database and enter a username and password to connect to the database.

Note: The user options settings are stored in the TestTrack Pro database for the currently logged in user. If you log in to multiple TestTrack Pro databases, SCC user options must be configured for each database.



- 4 Click **Browse** to select the project database.

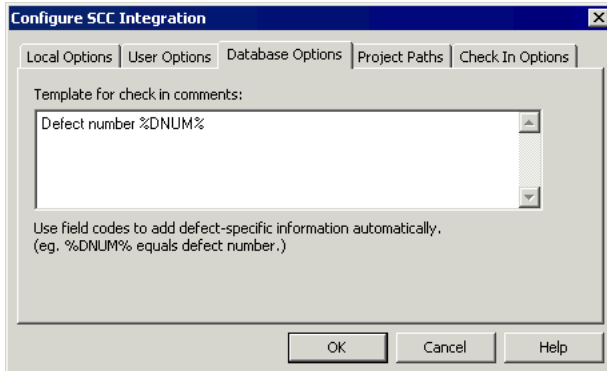
If you use **Visual SourceSafe** or **PVCS** you must also enter a valid username and password for the database.

- 5 Click **Validate Connection** to test the connection parameters.

If the connection fails, make sure you selected the right project database and entered the correct username and password information.

- 6 Click the **Database Options** tab.

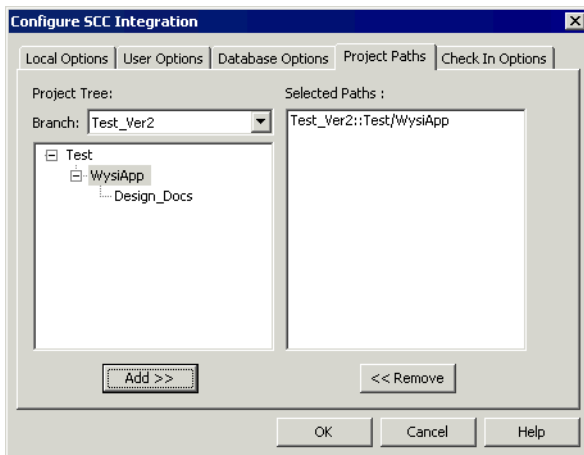
You can customize check in comments, using field codes. When users check in files, the comments field is populated automatically. For more information, see [Appendix A, “Field Codes Reference”](#), page 239.



- 7 Click the **Project Paths** tab.

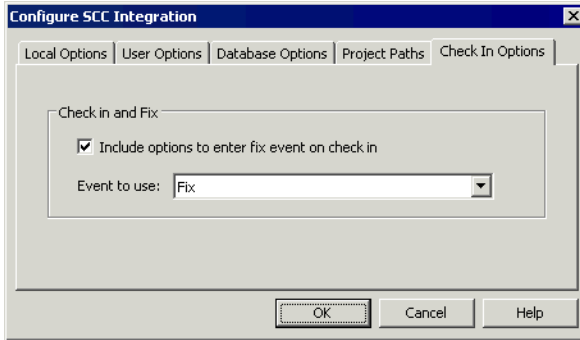
Select the project paths you want users to access. Expand the root directory, select a path, and click **Add**.

Note: If you select the root directory, users can access all files in the database. To limit the files users can access, select specific directories.



- 8 Click the **Check In Options** tab.

If **Include options to enter fix event on check in** is selected, the fix event dialog is opened when a user checks in a file. This lets users add a fix event when checking in a file.



- 9 Click **OK** when you finish configuring the SCC integration.

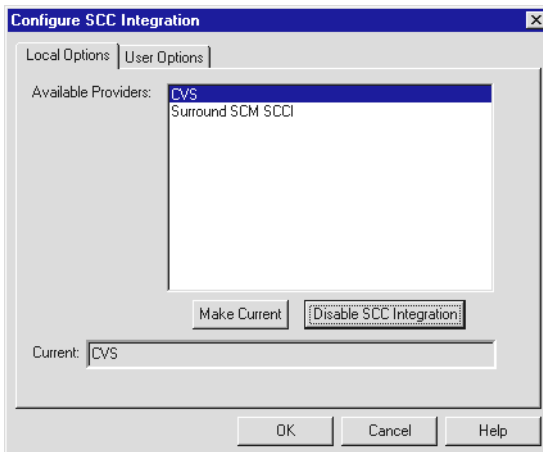
For more information, see [Using source code control with TestTrack Pro](#), page 104.

Disabling SCC integration

- 1 Choose **Configure > SCC Integration**.

The Configure SCC Integration dialog box opens.

- 2 Select the provider you want to disable and click **Disable SCC Integration**.



- 3 You are prompted to confirm that you want to disable the SCC integration.
- 4 Click **Yes**.

SCC application notes

The following application-specific information is provided to help you easily integrate SCC applications with TestTrack Pro.

CS-RCS

If you configure CS-RCS to work in CVS mode, the Check out, Check in, and Undo Check out buttons are still shown on the SCC tab, which can be confusing. The buttons may also be enabled/disabled for certain files, depending on the state of the file. Generally, these buttons are always enabled when CS-RCS is running in CVS mode.

CVS

Valid CVS working directories must be setup before you try to use the integration. The integration cannot be used to get the first copy of a your working files. This includes any local directories, which must exist before you can use the integration. To set up the integration:

- 1 Enter the local working path in the **Project working path** field.

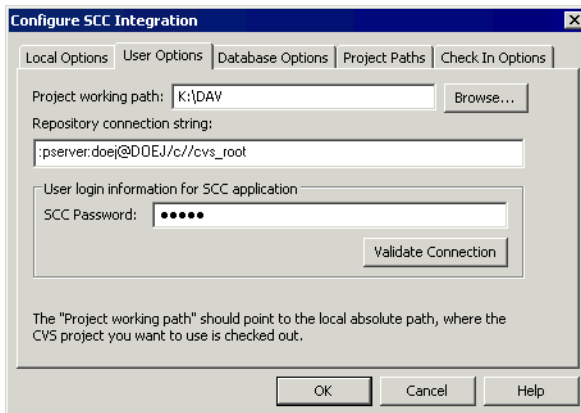
The Project Paths settings are based on the information you enter. After you enter a working directory, go to the Project Paths tab and add specific paths to use in the Attach dialog.

- 2 Enter the connection string in the **Repository connection string** field.

This string should be what you use for the **-d** option on the CVS command line

- 3 If you use a password, enter it in the **SCC Password** field.

You can also enter the password as part of the connection string. If you enter the password in the connection string, it can be viewed by anyone looking at your computer. If security is an issue, enter it in the password field.



- 4 If a merge is required when checking in a file, you must manually perform the merge. When you try to check in the file, you will receive a message letting you know a merge is needed. You have to manually perform the merge and then check in the file.

ClearCase

- The Get command is only valid for snapshot views. It is not valid for dynamic views.
- Files from different views are displayed on the Source Code tab. If you configure TestTrack Pro to connect to a dynamic view, and you have also attached files that are part of a snapshot view, all files are displayed. In this case, the Get command is invalid for any files that were attached in the dynamic view.

PVCS

- PVCS uses its own dialogs to handle opening the project and authenticating the user. PVCS prompts you for login data each time you open the project database.
- Two different TestTrack Pro users cannot configure PCVS integration, to separate PVCS projects, under one Windows user account.

Perforce

- The Browse button is disabled on the User Options tab. The client name is used for the project database. The login for the Perforce depot comes from the Perforce registry keys. The **P4USER** and **P4PASSWD** keys must be set correctly before the TestTrack Pro integration will work.
- Only the first 31 characters of a file's check in comments can be displayed when viewing file history (SCC tab, History button).

SourceOffSite Classic

- You must have the SourceOffSite GUI client installed on each computer you are using SourceOffSite integration with in TestTrack Pro. You also need to install the command line version and place it in the same directory as the SourceOffSite client.
- You should not run the SourceOffSite client and the TestTrack Pro integration at the same time. This is a SourceGear recommendation.
- SourceOffSite does not provide an easy way for TestTrack Pro to get the local path for a VSS file. TestTrack Pro looks at the *datasex.sos* cache file to get the directory information. If that does not work, the calls rely on the SourceOffSite GUI client to access the cache and provide the information.
- The Get, Check out, and Undo check out commands overwrite files without prompting you for permission.
- The SourceOffSite command line API has a bug in it and cannot copy files to root drives correctly. If TestTrack Pro does not get the local path information from the cache, the Get and Check out commands will not work with files that use a root drive for the working path. The View command will not work because TestTrack Pro does not know the file location.
- A valid cache file **must** exist for each user's server/database configuration.

- Logging into a server with two different names (e.g., 127.0.0.1 and localhost) results in two separate cache files. If you set up the SourceOffSite client to log in to 127.0.0.1 and configure TestTrack Pro to login to localhost, the integration will not work as expected. The localhost cache file will not have any working paths setup. This problem also occurs if you do not set up working paths in your SourceOffSite client. SourceOffSite will put the files in the current directory (e.g., c:\Program) instead of returning an error.
- The Login area of the User Options tab includes Server and Port fields that let you enter the server's connection data. After entering this data, click Browse. A list of available databases available on the server opens.
- The SourceOffSite command line application does not create directories when retrieving files. If you attempt to Get or Check out a file to a directory that does not exist, the call fails. You can create the directory path then perform the Get or Check out command.
- If the SourceOffSite server or the command line application crash, you need to close the TestTrack Pro client, restart the SourceOffSite server, then restart the TestTrack Pro client. TestTrack Pro is still usable if SourceOffSite crashes. The SourceOffSite integration will not work until you restart TestTrack Pro.

StarTeam

- Make sure your files are set up before configuring the SCC integration. If files are not set up in the project working path, and you configure the SCC integration, you will receive an error message in the Project Tree.
- StarTeam uses its own dialogs to handle opening the project and authenticating the user. StarTeam prompts you for login data each time you open the project database.
- Two different TestTrack Pro users cannot configure StarTeam integration, to separate StarTeam projects, under one Windows user account.

Surround SCM

none

Visual SourceSafe

none

Chapter 17

Managing User Groups

Safe and Secure!

User groups control security and the TestTrack Pro commands a user can access. Protect your data integrity, and security, by creating user groups for all security levels.

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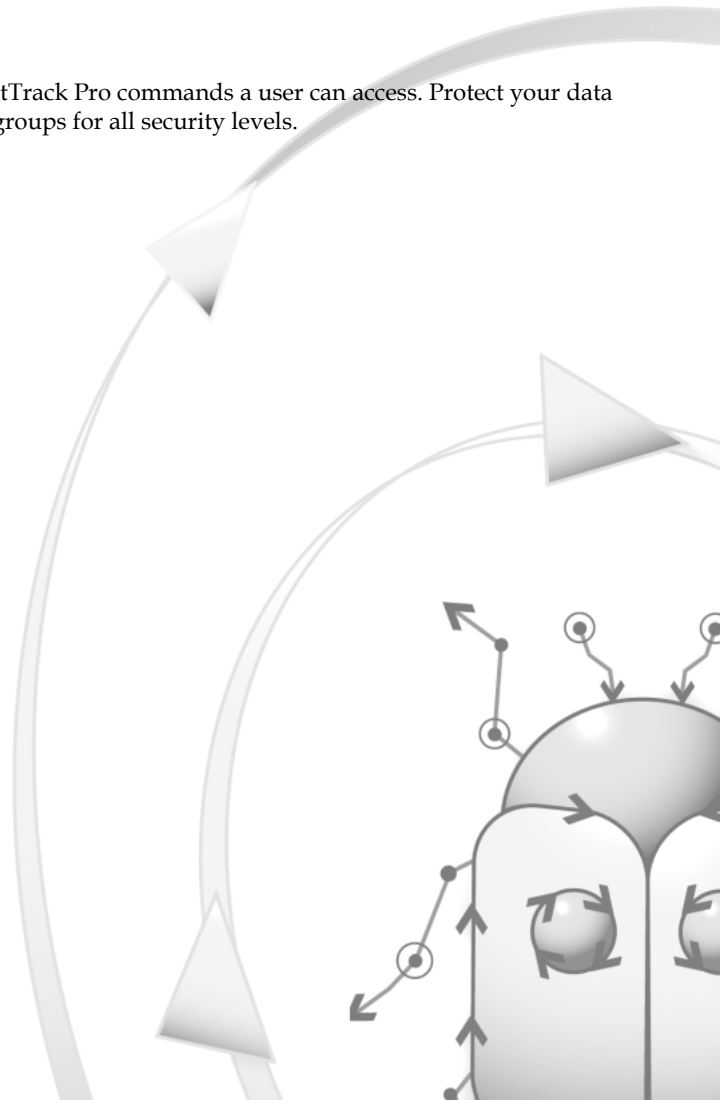
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About security

TestTrack Pro’s security options let you configure your database to provide as much, or as little, access as needed. TestTrack Pro includes the following security options:

- Password security, which users set, limits access to databases.
- Command security limits which commands a group of users can execute.
- Field security limits who can enter data into, or alter the contents of, each defect field.
- Defect security limits the defects that are visible to each user group.
- Advanced defect logging can track who changed defect fields and states and when the change was made.
- Server logging records unusual activity, critical, and non-critical system issues.

About user groups

A user group is a collection of users who share responsibilities and perform similar tasks. Users must be assigned to a user group before they can work with TestTrack Pro databases. Access to TestTrack Pro functions, such as adding a defect or using SCC integration, is controlled by the group security.

When you set up a database, create the user groups **first**. This lets you create a **security structure** for the users. You can create an unlimited number of security groups and levels. Security determines what databases users can access, what their view and edit rights are for authorized projects (on a per-field level), and what they can do at each stage of the workflow process.

Before you start creating user groups, you may find it helpful to list the types of users you will be adding to the database and what their needs are. You can add as many or as few user groups as you need, and make their security levels as general or as command-specific as you need.

Tip: If you want **all** users to have access to **all** commands, you do not need to create user groups. TestTrack Pro adds an Administration user group when a database is created. This user group has access to every command. Simply add the users to this default user group.

The following example provides security based on group levels:

Group Name	Security Level	Commands Granted
Level 1	Low	View
Level 2	Medium	View, Add
Level 3	High	View, Add, Edit
Level 4	Highest	View, Add, Edit, Delete

Or, using the same structure, name the user groups according to job description:

Group Name	Clearance Level	Commands Granted
Tech Writer	Low	View
Engineer	Medium	View, Add
QA Tester	High	View, Add, Edit
Manager	Highest	View, Add, Edit, Delete

User groups and security

TestTrack Pro security is assigned at the user group level. Each user group can be assigned different levels of security. You can set command, field, and defect security in TestTrack Pro.

Command-level security

Command security limits the commands a group of users can execute. Command security includes the following categories: General, Administration, Defects, Customers, Users, User Groups, Test Configurations, Filters, Reports, and Workbook.

It is obvious how most of the command-level security options work. For example, the Add Customer command determines if a user can access the Add Customer dialog. There are other command-level security options that require more explanation.

- Edit User security lets a user edit user information for every TestTrack Pro user. The Edit Own General User Settings and Edit Own Notifications options let users set their own options only.
- Edit Own General User Settings security determines if a user can view the General tab on the User Options dialog box. This tab lets the user set their own TestTrack user options.
- Edit Own Notifications security determines if a user can view the Email tab on the User Options dialog box. This tab lets the user set their own email notification options.
- Configure SCC DB Options security determines if a user can view the Database Options tab and the Project Paths tab on the Configure SCC Integration dialog box. Any changes made to the options on these two tabs affect all users in the TestTrack database.
- See SCC Tab security determines if a user can view the Source Code tab on the Add/Edit Defect window. This option only lets the user view the SCC actions that have already been performed; it does not provide security access to perform SCC actions. If a user does not have See SCC Tab security or Configure SCC DB Options security, then the Configure SCC Integration menu option is also disabled because these options do not apply.
- Perform SCC Actions security determines if a user can perform SCC actions such as check in and check out. Because these actions can only be performed from the Source Code tab of the Add/Edit Defect window, the user also needs the See SCC Tab security.

Defect-level security

Defect security restricts limits which defects are visible to the user group based on an existing filter and/or whether the user reported the defect. Defects that do not pass the filter are not displayed in the defect list or included in reports.

For example, you have a group of managers who only need information about feature requests. Select the **Open Feature Requests** filter for this group. The managers can only view defects that meet the filter criteria.

Field-level security

Field security affects defects and defect actions and restricts a user's ability to enter, or edit, field data. For example, can a user enter a resolution in the fix defect action field?

Three types of field security can be assigned: **Read/Write**, **Read Only**, and **Hidden**. In addition, **Add** and **Edit** privileges are set separately. For example, assign a restricted user group read/write add privileges for the Type field. Assign the same user group read only edit privileges for the Type field. When adding a new defect, users can enter information for the type field. When editing a defect, users can view the Type field but will not be able to make any changes.

Security can be assigned to the following fields: General, Found By, Assigned, Estimated, Fixed, Release to Test, Verified, Release to Customer Test, Customer Verified, Closed, Reopen, Release Notes, Comment, and Custom fields.

Field security **cannot** be applied to the following areas: email templates, SoloSubmit, SoloBug, and import/export.

System-generated fields **cannot** be assigned field security. This includes the following fields: defect number, defect status, has attachments?, has workaround?, date created, created by, creation method, date last modified, last modified by, found by group, found by company, how many?, and has release notes?



For example, Add privileges can be used to set field security. Assign the Department Manager group Read/Write access to the Priority field. Users in the Department Manager group can set the priority level. Assign the Programmer group Read Only access to the Priority field. Users in the Programmer group can view, and not edit, the priority level. Assign the Customer group Hidden access to the Priority field. Users in the Customer group cannot view the priority level assigned to defects.

Adding user groups

- 1 Choose **Create > User Group** or click **Add** on the User Group list window.

The Add User Group dialog box opens.

- 2 Enter a **Name** and **Description**.

These fields are required.

- 3 Add users to the group. Select a user from the **Available Users** list and click **Add**.

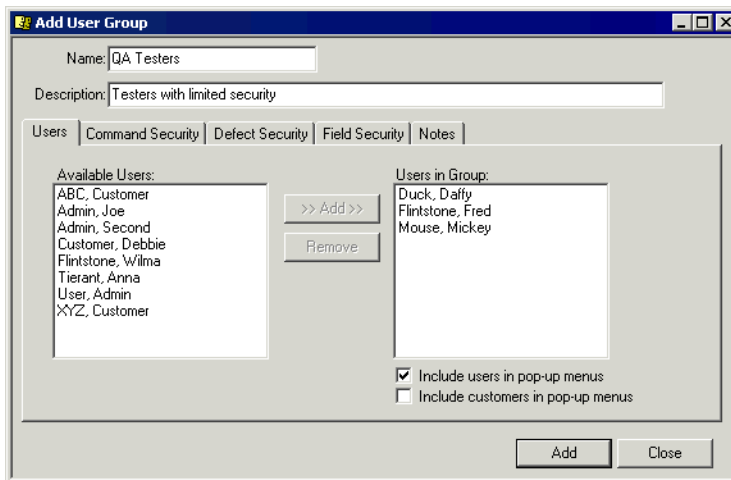
The user is added to the **Users in Group** list. To add multiple users, **Ctrl+click** each user.

- 4 Select **Include users in pop-up menus** to list users in pop-up menus.

Clear the check box if the user group is intended for users who only report defects and do not need to be assigned any defect actions.

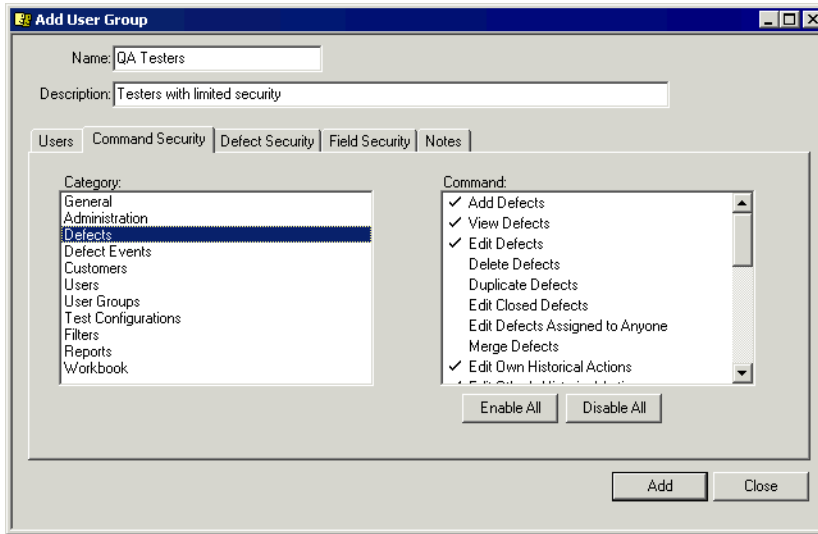
- 5 Select **Include customers in pop-up menus** to list the customers in pop-up menus.

Clear the check box if the user group is intended for customers who only report defects and do not need to be assigned any defect actions.

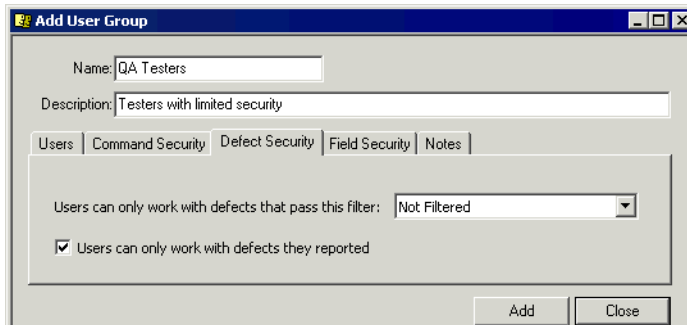


- 6 Click the **Command Security** tab and set the security for each category.

Be sure to set the commands for each category. TestTrack Pro enables add commands by default. A **check mark** next to a command means the user group has access to that command. Click the check mark to disable access to a command.

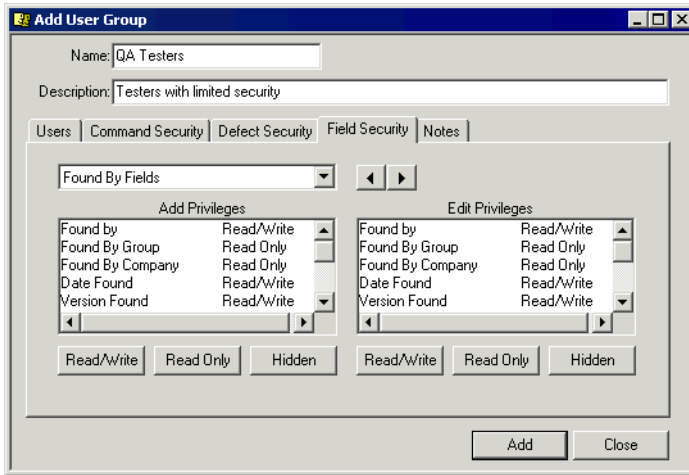


- 7 Click the **Defect Security** tab and set the defect security for the group.



- 8 Click the **Field Security** tab and set field security for this group.

When a new user group or database is created, field security defaults to full security. Users in this group can view and edit every defect field. Be sure to set **Add** and **Edit** privileges for all field groups.



Tip: A field can be represented by an edit box, check box, radio button, or a list box. Remember, setting field security affects **all** field types.

- 9 Click the **Notes** tab and enter any information about the user group.
- 10 Click **Add**.

The Add User Group dialog box clears and you can add another user group. Click **Close** when you finish adding user groups.

Viewing user groups

- 1 Select the user group on the User Groups list window.
- 2 Choose **Edit > View User Group** or click **View** on the User Group list window.

The View User Group dialog box opens. All fields are read-only and cannot be edited.

- 3 Click **OK** when you are finished.

Editing user groups

- 1 Select the user group on the User Groups list window.
- 2 Choose **Edit > Edit User Group** or click **Edit** on the User Group list window.

The Edit User Group dialog box opens.

- 3 Make any changes and click **OK**.

Your changes are saved.

Deleting user groups

- 1 Select the user group on the User Groups list window.

You can select more than one user group to delete.

- 2 Choose **Edit >Delete User Group** or click **Delete** on the User Group list window.

You are prompted to confirm the deletion.

- 3 Click **OK**.

The user group is deleted.

Chapter 18

Managing Users

Defect, defect, who has the defect?

Users, the people who find, fix and verify defects—who found it, who fixed it, who should be verifying it? By tracking users, TestTrack Pro improves your internal communications and accountability.

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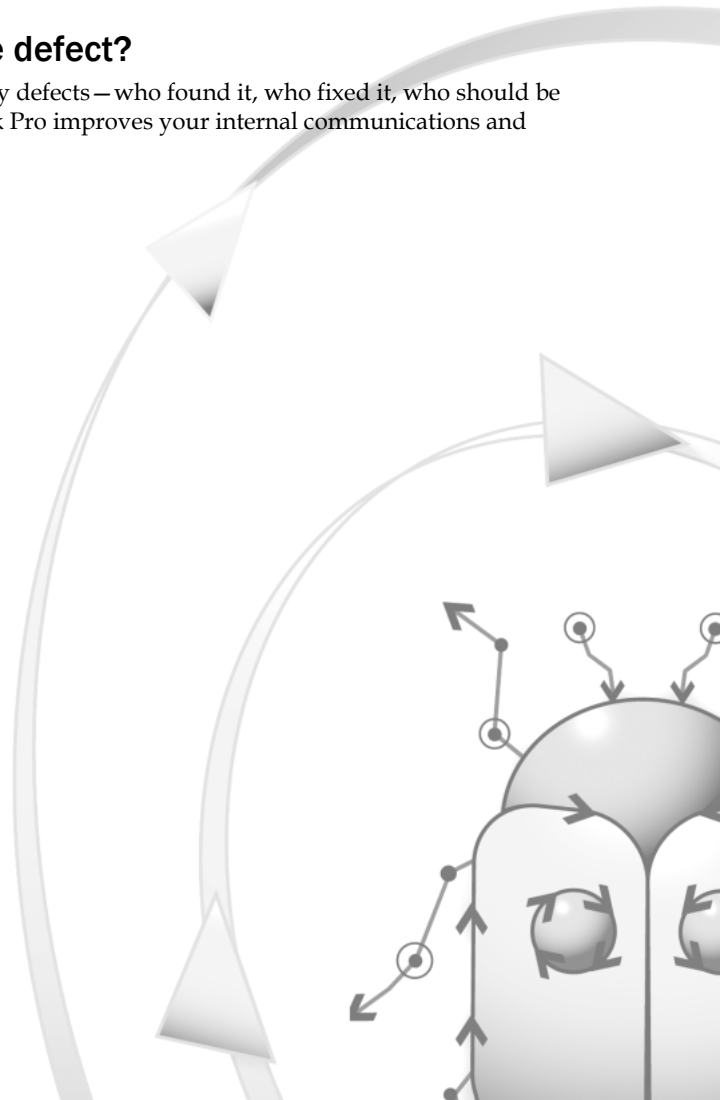
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About users

TestTrack Pro includes global and local users. Users can be created using the license server admin utility or TestTrack Pro. Global users have access to all databases and can be created using the license server admin utility or in TestTrack Pro. Local users cannot log in to TestTrack Pro and can only be created in TestTrack Pro.

The Users list window provides an overview of the users. In addition, you can add the **Available to** column to quickly see which users are local and which users are global.



What is a local user?

Local users cannot access databases and cannot login to TestTrack Pro. Local users are created when bugs are submitted via SoloBug or SoloSubmit. You can also create local users for tracking purposes. For example, if there is an issue that you need to communicate with a user about, you can add the customer as a local user.

Name	Group	Assigned	Available To
Admin, Second	Administration	0	All Databases
Customer, Debbie	Customers	0	Current Database
Duck, Daffy	Developers	0	All Databases
Flintstone, Fred	QA	1	All Databases
Flintstone, Wilma	Developers	1	All Databases
Mouse, Mickey	Developers	0	All Databases
User, Admin	Administration	1	All Databases

Adding users

- 1 Choose **Create > User** or click **Add** on the Users list window.

The Add User dialog box opens with the Info tab selected.

First Name: Debbie Last Name: Customer
Username: Password:
☒ Local ☐ Global

Info | Notify | CPU | Peripherals | Notes | Statistics | Display Settings | Licenses

User Group: Customers

Phone Numbers:
Work: 555-Debbie Work:

Email:
Internet: Email address: debbie@work.com

Add Close

- 2 Select **Local** to add the user to the current database. This option creates a local user.
- 3 Select **Global** to add the user to all databases. This option creates a global user, whose demographic information is stored on the license server.
- 4 Enter the user information.

You must enter a first and last name. All other information is optional.

Note: If you add the user to all databases, you must also enter a Username. You can optionally enter a password, which the user can change when they login.

- 5 Enter the information on the **Info** tab.
- 6 Click the **Notify** tab to select email notification options.

Click **Configure Rules** to configure the user notification rules for each state a defect moves into. See [Configuring user notification rules, page 198](#) for more information.

The screenshot shows the 'Add User' dialog box with the 'Notify' tab selected. The 'Info' tab is also visible. The 'First Name' field contains 'Debbie' and the 'Last Name' field contains 'Customer'. The 'Username' and 'Password' fields are empty. The 'Local' radio button is selected, and the 'Global' radio button is unselected. The 'Notify' tab is active, showing a list of notification rules. The list includes: 'Defect enters Needs Customer Verification state', 'Defect enters Fixed state (1 rules, 1 enabled)', 'Defect enters Open (Re-Opened) state', 'Defect enters Open (Verify Failed) state', and 'Defect enters Open state'. The 'Configure Rules...' button is visible below the list. The 'Add' and 'Close' buttons are at the bottom right of the dialog box.

Tab	Field	Value
Info	First Name	Debbie
	Last Name	Customer
Notify	Username	
	Password	

Radio Buttons: ☒ Local, ☐ Global

Notification Rules List:

- Defect enters Needs Customer Verification state
- Defect enters Fixed state (1 rules, 1 enabled)
- Defect enters Open (Re-Opened) state
- Defect enters Open (Verify Failed) state
- Defect enters Open state

Buttons: Add, Close

- 7 Click the **CPU** tab and enter the CPU information.

These fields are optional but you should enter as much information as possible. Click **Capture Config** to automatically capture some of the fields, such as operating system and CPU type.

The screenshot shows the 'Add User' dialog box with the 'CPU' tab selected. The 'First Name' field contains 'Debbie' and the 'Last Name' field contains 'Customer'. The 'Username' and 'Password' fields are empty. The 'Local' radio button is selected. The 'CPU' tab is active, showing fields for 'Model', 'Brand', 'Operating System' (Windows XP), 'OS Version' (5.1), 'CPU Type' (Pentium), 'Speed' (empty), 'MHz' (empty), 'RAM' (504 MB), 'ROM' (empty MB), 'Video Controller' (empty), 'Hard Disk Type' (empty), and 'Size' (empty MB). There is a 'Multiple Monitors' checkbox and a 'Capture Config' button. At the bottom are 'Add' and 'Close' buttons.

- 8 Click the **Peripherals** tab and enter the peripherals information.

These fields are optional but you should enter as much information as possible.

The screenshot shows the 'Add User' dialog box with the 'Peripherals' tab selected. The 'First Name' field contains 'Debbie' and the 'Last Name' field contains 'Customer'. The 'Username' and 'Password' fields are empty. The 'Local' radio button is selected. The 'Peripherals' tab is active, showing checkboxes for 'CD-ROM', 'Modem', 'Printer', and 'Scanner'. The 'Modem' checkbox is checked with 'Model' set to 'internal'. The 'Printer' checkbox is checked with 'Model' set to 'HP LaserJet 8150 PCL'. There is a text area for 'Other Hardware and Software'. At the bottom are 'Add' and 'Close' buttons.

- 9 Click the **Notes** tab and enter any notes.

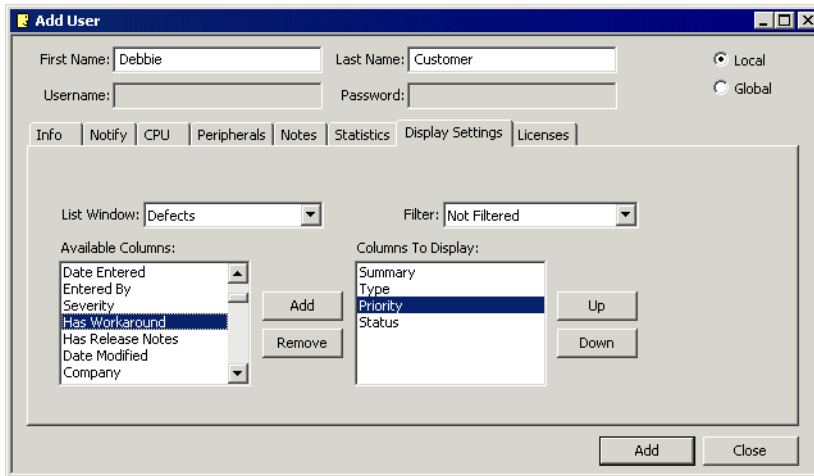
- 10 Skip the **Statistics** tab.

This read-only tab contains user statistical information.

- 11 Click the **Display Settings** tab to select the information you want to display on the list windows.

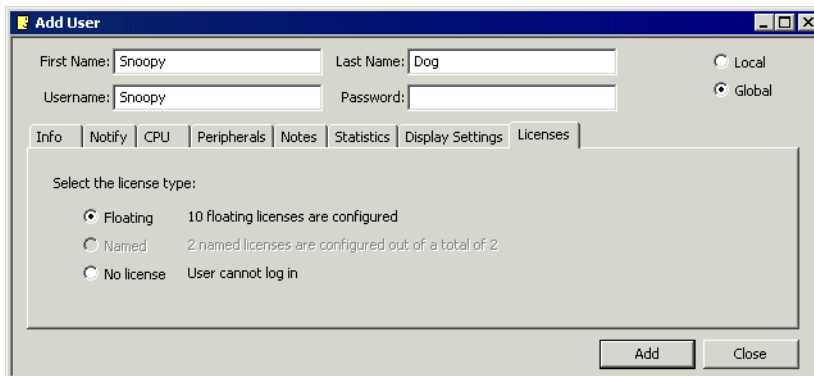
You can control the amount of data displayed by limiting the columns on some, or all, of the list windows. In addition, you can specify a filter for the Defects list window. TestTrack Pro performance can be negatively affected when databases contain a large number of records because it can take a long time for TestTrack Pro to populate the Defects list window. Users cannot change the settings.

- To filter the Defects list window, select a filter from the **Filter** menu.
- To limit which columns display, select a list window from the **List Window** menu. Select the columns you want to include and click **Add**. To reorder the columns, select the column and click **Up** or **Down**.



- 12 Click the **Licenses** tab to select a license for the user.

If the user is being added to the current database, all fields are disabled.



- 13 Click **Add**.

The user is added.

Adding global users

Global users, which reside on the license server, can be associated with the current database. After a global user is added to the current database, they are displayed in the Users list window. If the user is assigned a named or floating license, they can also login and work with TestTrack Pro.



What is a global user?

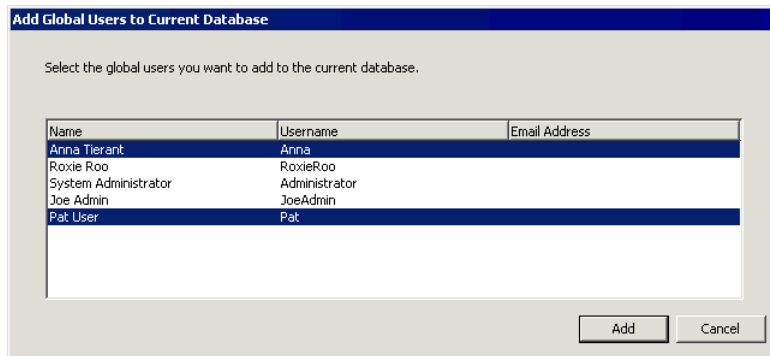
Global users have access to all databases and can be created using the license server admin utility or in TestTrack Pro.

- 1 Choose **Edit > Add Global User** or click **Add Global** on the Users list window.

The Add Global Users to Current Database dialog opens.

- 2 Select the user you want to add to the current database.

You can select more than one user.



- 3 Click **Add**.

The global user is added.

Configuring user notification rules

Notifications, which are not the same as assignments, simply inform a user of an event change. Notification rules are based on actions and administrator-defined state changes. The notification rules are run to determine if an email should be sent when a defect moves into a corresponding state.

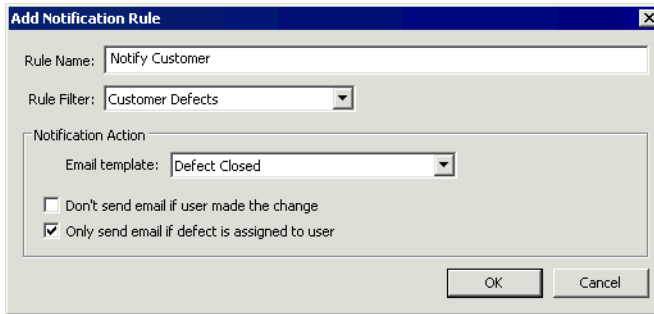
Adding notification rules

- 1 Click the **Notify** tab when you are adding or editing a user.
- 2 Click **Configure Rules**.

The Configure User Notifications Rules dialog box opens.

3 Click **Add**.

The Add Notification Rule dialog box opens.



4 Enter a **Rule Name**.

5 Optionally select a **Rule Filter**.

If a database contains a large number of defects, you may want to filter the defects the rule is applied to. If you need to add filters, see [Creating filters, page 72](#).

6 Select an **Email Template**.

7 Select **Don't send email if user made the change** if you do not want the user who made the change to receive an email.

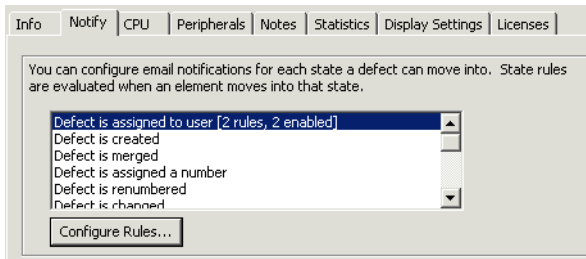
8 Select **Only send email if defect is assigned to user** if you only want an email sent to the assigned user.

9 Click **OK**.

You return to the Configure User Notification Rules dialog. Click **Add** to add another rule or click **OK** to return to the User dialog.

Editing user notification rules

After rules are added, you can easily tell how many rules are setup and enabled for an email notification. Select a user and choose **Edit > Edit User**. Click the **Notify** tab. If rules are configured for a notification, the number of rules and the number of enabled rules are listed after the notification.



- 1 Select the user on the Users list window.
- 2 Choose **Edit > Edit User** or click **Edit**.
- 3 Click the **Notify** tab.
- 4 Click **Configure Rules**.
- 5 Select the rule and click **Edit**.

The Edit Notification Rule dialog box opens.

- 6 Make any changes and click **OK**.
Your changes are saved.
- 7 Click **OK** again to close the Configure User Notification Rules dialog.

Inactivating user notification rules

Instead of deleting a user notification rule, inactivate it. You can then activate the rule to use it again.

- 1 Select the user on the Users list window.
- 2 Choose **Edit > Edit User** or click **Edit**.
- 3 Click the **Notify** tab.
- 4 Click **Configure Rules**.
- 5 Select the rule and click **Inactivate**.

The rule is no longer active.

- 6 Click **OK**.
- 7 Click **OK** again to close the Configure User Notification Rules dialog.

Note: To activate an inactive rule, select the rule and click **Activate**.

Deleting user notification rules

Make sure you want to delete the rule. You are not prompted to confirm the deletion and this action cannot be undone.

- 1 Select the user on the Users list window.
- 2 Choose **Edit > Edit User** or click **Edit**.
- 3 Click the **Notify** tab.
- 4 Click **Configure Rules**.

- 5 Select the rule and click **Delete**.

The rule is deleted.

- 6 Click **OK**.
- 7 Click **OK** again to close the Configure User Notification Rules dialog.

Viewing users

- 1 Select the user on the Users list window.
- 2 Choose **Edit > View Users** or click **View** on the **Users** list window.

The read-only View User dialog box opens. Click the tabs to view the user information.

- 3 Click **OK** to close the View User dialog box.

Editing users

- 1 Select the user on the Users list window.
- 2 Choose **Edit > Edit Users** or click **Edit** on the Users list window.

The Edit User dialog box opens.

- 3 Make any changes and click **OK**.

Your changes are saved.

Duplicating users

If you are adding multiple users with similar information you can save time by duplicating users.

- 1 Select the user on the Users list window.
- 2 Choose **Edit > Duplicate User**.

TestTrack Pro duplicates the user, and a number, incrementing by one, appears after the user's last name. For example, if you duplicate Jane User, a user named Jane User1 is added.

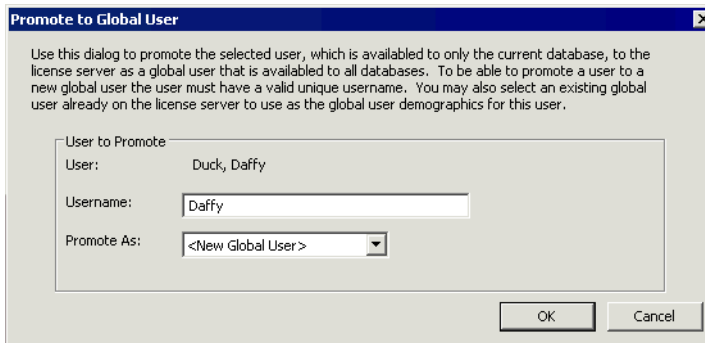
- 3 Modify the duplicated user and save your changes.

Promoting users

Local users can be promoted to global users and made available to all databases. Promoting users moves the shared demographic information from the TestTrack Pro server to the license server. When a user is promoted, you can either create an entirely new global user or you can use an existing user record on the license server. For example, a global user named Joseph User is created. A local user named Joe User is also created. These are the same user, with a difference in the first name. Joe User can be promoted as Joseph User. The local user information is discarded and replaced with the global user information.

- 1 Select the user on the Users list window.
- 2 Choose **Edit > Promote User** or click **Promote** on the Users list window.

The Promote to Global User dialog box opens.



- 3 Enter a **Username**.
- 4 Select a **Promote As** user.

If the local user's first and last name matches an existing global user, that matching user is automatically selected as the **Promote As** user. The user can also be promoted as a new global user.

- 5 Click **OK**.

The user is promoted.

Making a customer a user

Use this command if you made a mistake and entered a user as a customer.

- 1 Select the customer on the Customers list window.
- 2 Choose **Edit > Make Customer a User**.

The customer is transferred to the users list. Assign a username and password add the user to a user group.

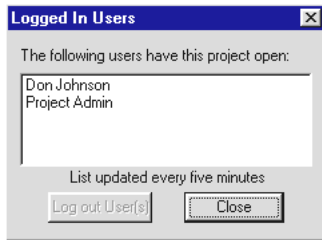
Viewing logged in users

Admin: You may not have access to this command depending on your security rights.

You can view the users who are currently logged in to the database.

- 1 Choose **Activities > Show Logged In Users**.

The Logged In Users dialog box opens.



- 2 Click **Close** to close the dialog box.

Logging out users

A user requires a license to run TestTrack Pro. If a user does not exit TestTrack Pro correctly, the license is not released. When this happens, you can free the license by logging out the user. You can also log out users if you need to perform maintenance or make changes that require all users to be logged out.

- 1 Choose **Activities > Show Logged In Users**.

The Logged In Users dialog box opens.

- 2 Select the user(s) you want to log out.

To select more than one user, **Ctrl+click** each user.

- 3 Click **Log out User(s)**.

The user(s) is logged out and the dialog box closes. When you log out users, they are notified that their session was dropped by an administrator.

Inactivating users

Inactivate a user to save the historic information. Inactive users cannot login to TestTrack Pro, receive email via TestTrack Pro, or be assigned defects.

- 1 Select the user on the Users list window.

- 2 Choose **Edit > Inactivate User**.

You are prompted to confirm the inactivation.

- 3 Click **Yes**.

The user is inactive.

Activating users

- 1 Select the user on the Users list window.
- 2 Choose **Edit >Activate User**.

The user becomes active.

Deleting users

You can delete local TestTrack Pro users. Global users cannot be deleted from TestTrack Pro. Global users can be disassociated from the current database, resulting in lost historic information.

Note: Historic information is deleted with the user. To retain historic information, make the user **inactive**.

- 1 Select the user on the Users list window.
- 2 Choose **Edit >Delete User** or click **Delete**.
- 3 Click **Yes**.

The user is deleted.

Chapter 19

Managing Customers

Customers—your most valuable asset!

Keeping your customers happy can be hard to do. TestTrack Pro helps you easily track customers and the issues they report. When a customer calls, you can quickly provide a status update - keeping everyone happy!

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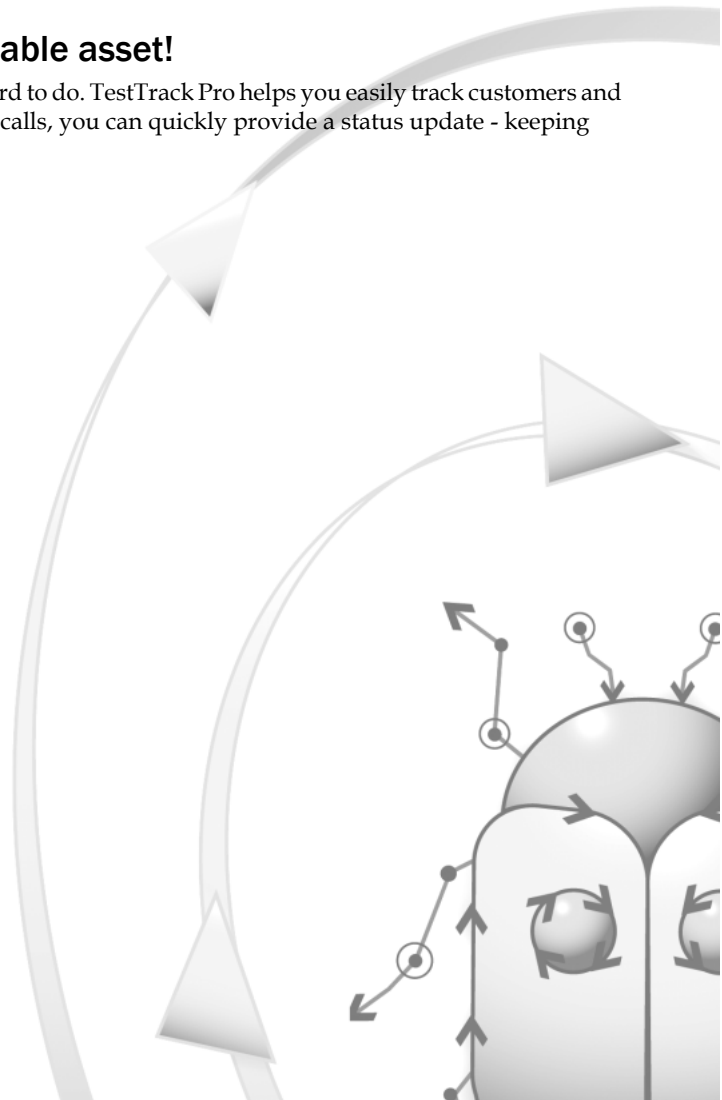
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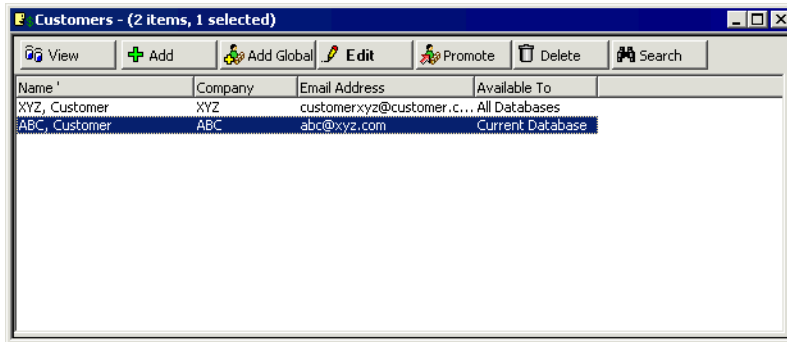
Deleting customers, 212



About customers

Customers are generally the end-users of your products or services. Unlike users, customers usually do not have access to the database. TestTrack Pro includes global and local customers. Customers can be created using the license server admin utility or TestTrack Pro. Global customers have access to all databases and can be created using the license server admin utility or in TestTrack Pro. Local customers cannot log in to TestTrack Pro and can only be created in TestTrack Pro.

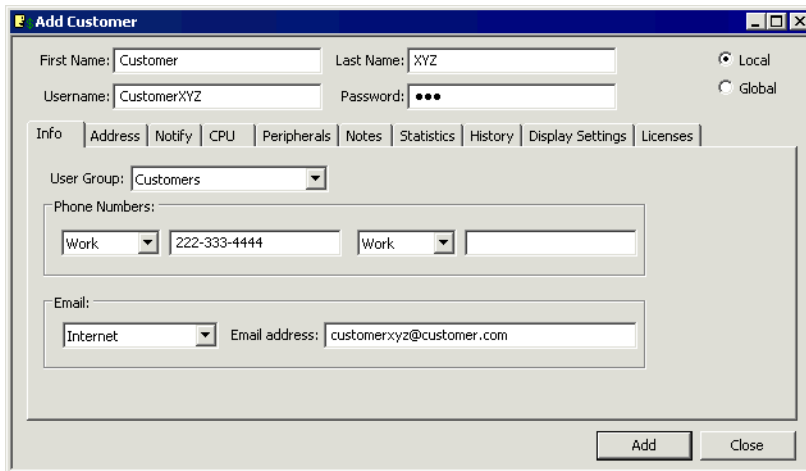
The Customers list window provides an overview of the customers. In addition, you can add the **Available to** column to quickly see which customers are local and which customers are global.



Adding customers

- 1 Choose **Create > Customer** or click **Add** on the Customers list window.

The Add Customer dialog box opens.



- 2 Select **Local** to add the customer to the current database.

Local customers cannot access databases and cannot login to TestTrack Pro.

- 3 Select **Global** to add the customer to all databases.

Local customers have access to all databases. Their demographic information is stored on the Seapine License Server.

- 4 Enter the customer information.

You must enter a first and last name. All other information is optional.

Note: If you add the customer to all databases, you must also enter a Username. You can optionally enter a password.

- 5 Enter the information on the **Info** tab.
- 6 Click the **Address** tab and enter the address information.

The screenshot shows the 'Add Customer' dialog box with the 'Info' tab selected. The 'First Name' field contains 'Customer' and the 'Last Name' field contains 'XYZ'. The 'Username' field contains 'CustomerXYZ' and the 'Password' field contains three dots. The 'Local' radio button is selected, and the 'Global' radio button is unselected. The 'Company' field contains 'XYZ' and the 'Beta Test Site' checkbox is checked. The 'Address' field contains '111 Main Street' and 'Anywhere, USA 11111'. The 'OK' and 'Cancel' buttons are at the bottom right.

- 7 Click the **Notify** tab to select email notification options.

Click **Configure Rules** to configure the customer notification rules for each state a defect moves into. See [Configuring user notification rules, page 198](#) for more information.

The screenshot shows the 'Add Customer' dialog box with the 'Notify' tab selected. The 'First Name' field contains 'Customer' and the 'Last Name' field contains 'XYZ'. The 'Username' field contains 'CustomerXYZ' and the 'Password' field contains three dots. The 'Local' radio button is selected, and the 'Global' radio button is unselected. The 'Company' field contains 'XYZ' and the 'Beta Test Site' checkbox is checked. The 'Address' field contains '111 Main Street' and 'Anywhere, USA 11111'. The 'OK' and 'Cancel' buttons are at the bottom right. The 'Notify' tab is active, showing a list of states: 'Defect enters Open (Re-Opened) state', 'Defect enters Fixed state', 'Defect enters Closed state', 'Defect enters Closed (Fixed) state', and 'Defect enters Closed (Verified) state'. The 'Configure Rules...' button is at the bottom left of the list.

- 8 Click the **CPU** tab and enter the CPU information.

These fields are optional but you should enter as much information as possible.

- 9 Click the **Peripherals** tab and enter the peripherals information.

These fields are optional but you should enter as much information as possible.

- 10 Click the **Notes** tab and enter any notes.

- 11 Skip the **Statistics** tab.

This read-only tab contains customer statistical information.

- 12 Skip the **History** Tab.

This read-only tab contains information about defects the customer reported.

- 13 Click the **Display Settings** tab to select the information you want to display on the list windows.

You can control the amount of data displayed by limiting the columns on some, or all, of the list windows. In addition, you can specify a filter for the Defects list window. TestTrack Pro performance can be negatively affected when databases contain a large number of records because it can take a long time for TestTrack Pro to populate the Defects list window. Customers cannot change the settings.

- To filter the Defects list window, select a filter from the **Filter** menu.
- To limit which columns display, select a list window from the **List Window** menu. Select the columns you want to include and click **Add**. To reorder the columns, select the column and click **Up** or **Down**.

- 14 Click the **Licenses** tab to select a license for the customer.

If the customer is being added to the current database, all fields are disabled.

- 15 Click **Add**.

The customer is added to the database.

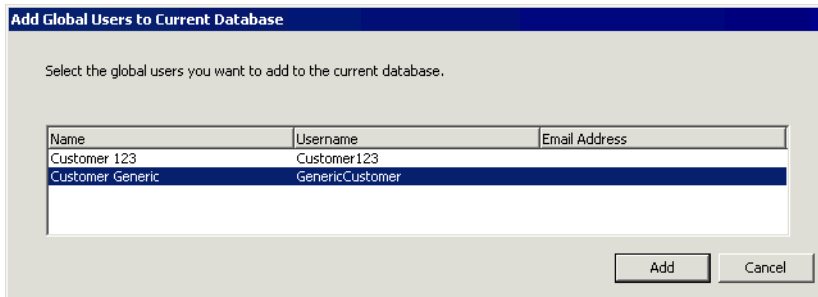
Adding global customers

Global customers, which reside on the license server, can be associated with the current database. After a global customer is added to the current database, they are displayed in the Customers list window. If the customer is assigned a named or floating license, they can also log in and work with TestTrack Pro.

- 1 Choose **Edit > Add Global Customers** or click **Add Global** on the Customers list window.

The Add Global Users to Current Database dialog opens.

- 2 Select the customers you want to add to the current database.



- 3 Click **Add**.

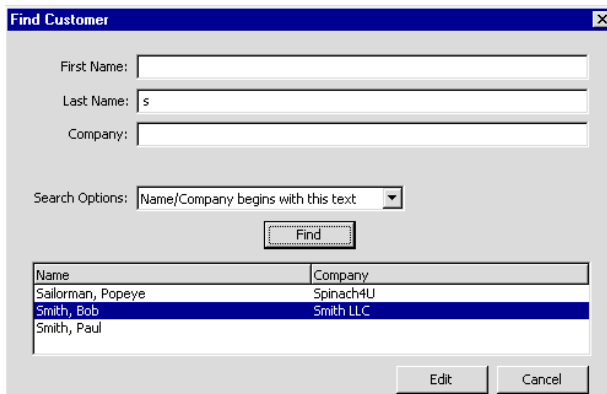
The global customers are added.

Searching for customers

Most databases include a large number of customers. Searching provides an easy way to find customers.

- 1 Click the **Search** command button on the Customers list window.

The Find Customer dialog box opens.



- 2 Enter the search criteria.
 - Enter full or partial first name, last name, and company information.
 - Leave a field blank if you do not want to include it in the search.
- 3 Select a **Search Option**.
 - **Name/Company begins with this text** looks for values beginning with the entered text.
 - **Name/Company contains this text** looks for values containing the entered text.
- 4 Click **Find**.

Customers that meet the search criteria are displayed in alphabetical order.
- 5 Select a customer and click **Edit** to modify their information.

For more information, see [Editing customers](#), page 210.

Viewing customers

- 1 Select the customer on the Customers list window.
- 2 Choose **Edit > View Customer** or click **View**.

The read-only View Customer dialog box opens.
- 3 Click the tabs to view the customer information.
- 4 Click **OK** to close the View Customer dialog.

Editing customers

- 1 Select the customer on the Customers list window.
- 2 Choose **Edit > Edit Customer** or click **Edit**.

The Edit Customer dialog box opens.
- 3 Make any changes and click **OK**.

Your changes are saved and you return to the Customers list window.

Duplicating customers

If you are adding multiple customers with similar information, save time by duplicating customers.

- 1 Select the customer on the Customers list window.

2 Choose **Edit > Duplicate Customer**.

The customer is duplicated and a number, incrementing by one, is added to the customer name. For example, if you duplicate Joe Customer, a customer named Joe Customer1 is added.

3 Modify the duplicated customer and save your changes.

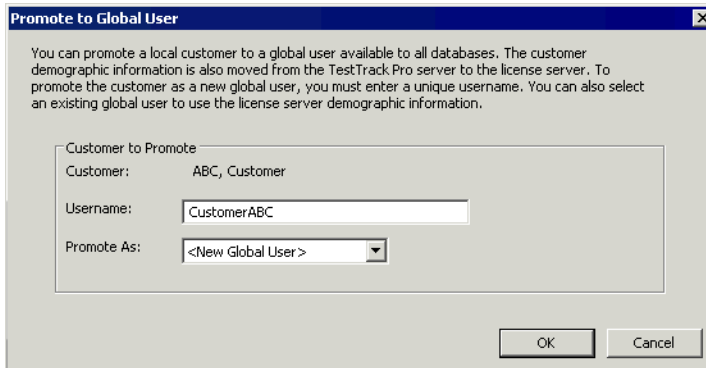
Promoting customers

Local customers can be promoted to global customers and made available to all databases. Promoting customers moves the shared demographic information from the TestTrack Pro server to the license server. When a customer is promoted, you can either create a new global customer or you can use an existing customer record on the license server.

1 Select the customer on the Customers list window.

2 Choose **Edit > Promote Customer** or click **Promote** on the Users list window.

The Promote to Global User dialog box opens.

The image shows a dialog box titled "Promote to Global User". It contains a text area with instructions: "You can promote a local customer to a global user available to all databases. The customer demographic information is also moved from the TestTrack Pro server to the license server. To promote the customer as a new global user, you must enter a unique username. You can also select an existing global user to use the license server demographic information." Below the text area is a form with three fields: "Customer:" with the value "ABC, Customer", "Username:" with the value "CustomerABC", and "Promote As:" with a dropdown menu showing "<New Global User>". At the bottom right are "OK" and "Cancel" buttons.

3 Enter a **Username**.

4 Select a **Promote As** user.

If the local customer's first and last name matches an existing global customer, that matching customer is automatically selected as the **Promote As** customer. The customer can also be promoted as a new global customer.

5 Click **OK**.

The customer is promoted.

Making a user a customer

If you make a mistake and enter a user as a customer, you can easily make the user a customer.

- 1 Select the user you want to convert to a customer on the Users list window.

You can select more than one user at a time.

- 2 Choose **Edit > Make User a Customer**.

The user is transferred to the customer list.

Deleting customers

Note: Deleting a customer results in the loss of historic information, such as Reported By or Defect Action records. To save historic information, inactive the customer.

- 1 Select the customer on the Customers list window.
- 2 Choose **Edit > Delete Customer** or click **Delete** on the Customers list window.

You are prompted to confirm the deletion.

- 3 Click **Yes**.

The customer is deleted.

Chapter 20

Importing and Exporting Files

Save time...

...when you learn how to import or export XML or text files.

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XML import and export

XML import/export is the recommended method for importing and exporting files. This method includes the following advantages over text file import/export:

- You do not need to match fields when importing or exporting records.
- You can import and/or export multiple **Reported By** records.
- You can import and/or export multiples of the same defect actions.
- You can import and/or export more than one record type. For example, you can import/export defects and users in a single file.

Importing XML files

Admin: Import security access should be limited to administrative user groups. The misuse of this feature can result in a significant number of unwanted records in your database. The administrator grants access to import/export commands.

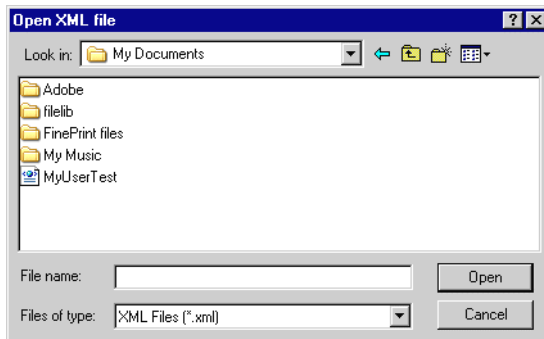
With XML, you can quickly import a large amount of data. Email notifications are not sent when you import files; the volume of email messages generated could cause some email servers to crash.

- 1 Choose **File > Import > XML Import**.

The XML Import dialog box opens.

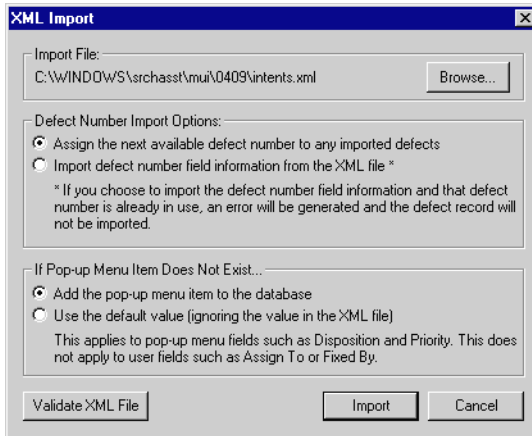
- 2 Click **Browse** to select an XML file to import.

The Open XML File dialog box opens.



3 Select the file and click **Open**.

The file you selected is listed in the Import File area on the XML Import dialog box.



4 Select the **Defect Number Import** options.

- **Assign the next available defect number** automatically assigns the next available defect number for each defect being imported.
- **Import defect number field information** imports defect number information from the XML file. If the defect number already exists, an error will be generated and the defect record will not be imported.

Note: The Defect Number Import options may be disabled depending on your database options.

5 Select the **Pop-up Menu Item** options.

These options apply to pop-up menu fields such as **Disposition** and **Priority** and do not apply to user fields.

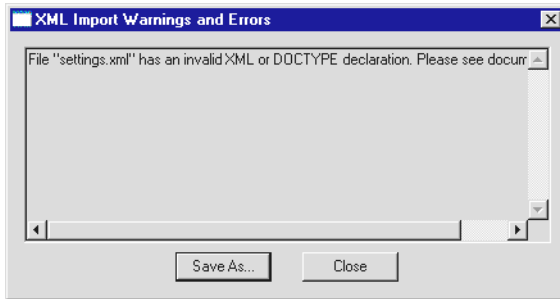
- **Add the pop-up menu item to the database** automatically adds the pop-up menu item to the database.
- **Use the default value** uses the default value and ignores any value in the imported XML file.

6 Click **Validate XML File** to validate the file.

Validate the XML file before importing the file. Resolving problem(s) before importing is easier than cleaning up data in the TestTrack Pro database.

- 7 The XML Import Warnings and Errors dialog box opens, showing the results of the validation testing.

If the XML format is **invalid** an error will be reported and data will not be imported. Click **Save As** to save the contents of the Warnings and Errors dialog box as a text file.



- 8 If the XML format is valid, click **Import**.

The XML Import dialog box closes and you return to the list window.

- When a user field (such as **Found By** or **Fixed By**) is imported, TestTrack Pro tries to match the first name and last name with an existing user or customer. If an exact match is not found, the user/customer is created.
- A defect's historical data is not imported. The historical data fields are system-generated. The **created by** and **modified by** fields are populated with the currently logged in user's name. The **date created** and **date last modified** fields are populated with the current date and time. The **creation method** field is populated with "XML Import."
- When importing, the password field can be either encrypted or in plain text. If TestTrack Pro generated the XML file, the password is encrypted. If a third-party XML file is imported, the password is in plain text.
- File attachments cannot be imported and/or exported.

Exporting to XML

You can export defects, users, customers, and test configurations to an XML file.

Note: If you only want to **export specific defects**, you **must** select the defects before continuing. You can select records from the following list windows: Defects, Users, Customers, and Test Configurations.

- 1 Choose **File > XML Export**.

The XML Export dialog box opens.



- 2 Select the type of information you want to export.

To export more than defects, **Ctrl+click** each record type. For example, **Ctrl+click** Users and Test Configurations to export this type of information.

Note: If you are exporting defect information, you can also export historical log information. This information contains an historical account of changes made to a defect.

- 3 Click **Export**.

The Export XML File dialog box opens.

- 4 Select the file location, enter a file name, and click **Save**.

A progress indicator opens and lets you know the file is being exported.

- 5 The Export XML dialog box closes and you return to the list window.



All calculated fields for a defect will be exported, but they will not be imported. Calculated fields are exported in case you want to import the XML file into a third-party application. Calculated fields that will be exported for a defect include **status** and **assigned to**.

User statistical data will be exported, but it will not be imported. User statistical data includes the following information: **defects found** and **defects assigned**.

Usernames and passwords are both exported. Usernames are exported in plain text; passwords are always exported as encrypted text.

XML import/export notes

- If you manually generate XML files or use a third-party application, you can import these XML files into TestTrack Pro. Refer to the **TestTrackData.dtd** file for proper formatting of your XML file.
- Do not modify the TestTrackData.dtd file. Modifying this file may result in validation errors or errors importing XML data.
- Leave elements that you need to set to <“not set”> empty.
- Control characters cannot be imported into TestTrack Pro and will be removed when exporting text fields. This includes the following:

Hex Value	Explanation
0x01	Start of Heading
0x02	Start of Text
0x03	End of Text
0x04	End of Transmission
0x05	Enquiry
0x06	Acknowledge
0x07	Bell
0x08	Backspace
0x0B	Vertical Tabulation
0x0C	Form Feed
0x0E	Shift Out

Hex Value	Explanation
0x0F	Shift In
0x10	Data Link Escape
0x11	Device Control One
0x12	Device Control Two
0x13	Device Control Three
0x14	Device Control Four
0x15	Negative Acknowledge
0x16	Synchronous Idle
0x17	End of Transmission Block
0x18	Cancel
0x19	End of Medium

Note: Due to XML specifications, you cannot export an item with a string field containing control characters. There is no way to escape this type of character data.

XML import/export warnings and errors

A **warning** means the record can be imported but some of the information could not be imported. Following are some of the **warning** messages that might be displayed as a result of the XML file validation:

- Could not find match for custom field (applies only to defects).
- Could not find match for pop-up menu item value.
- Could not generate custom field value.
- A default value will be used instead of the specified value.

An **error** means the record cannot be imported. Following are some of the **error** messages that might be displayed as a result of the XML file validation:

- Defect number already exists (applies only to defects and only if using the import defect number field information option).
- Name already exists (applies only to users, customers, or test configs).
- Username already exists (applies only to users or customers).

- Two defects with same defect number in XML file (applies only to defects and only if using the import defect number field information).
- Two entries with same name in XML file (applies only to users, customers, or test configs).
- Two entries with same username in XML file (applies only to users or customers).

Text file import and export

You can use TestTrack Pro to import and export records as comma- and tab-delimited text files. You can also import/export files created in other database programs such as FileMaker Pro.

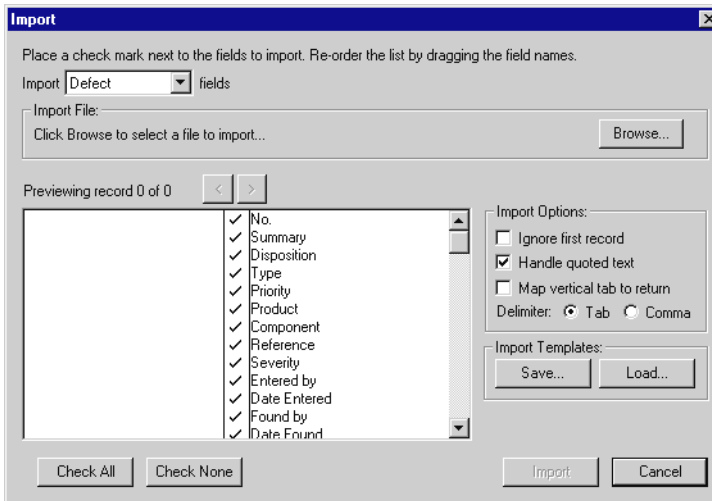
Seapine Software recommends you use XML import/export record information. For more information, see [XML import and export, page 214](#).

Importing text files

Note: Import security access should be limited to administrative user groups. The misuse of this feature can result in a significant number of unwanted records in your database. The system administrator grants access to import/export commands.

- 1 Choose **File > Import > Text File Import**.

The Import dialog box opens.

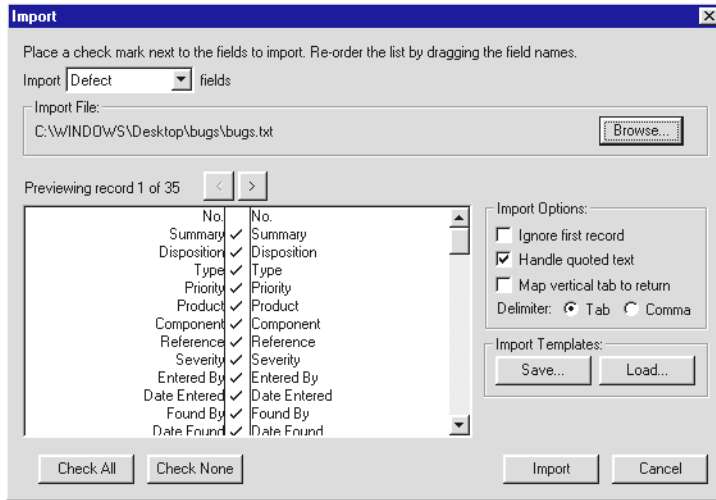


- 2 Select the field type you want to import from the **Import fields** menu.
You can import defect, user, and customer information.
- 3 Click **Browse** to select a file to import.

The Open dialog box opens.

- 4 Select the file you want to import and click **Open**.

The file information appears in the Import dialog box. The column on the left previews the fields as they appear in the file. Click the **Previous** and **Next** arrows to move from record to record.



- 5 Select the **Import** options.
 - Select **Ignore first record** to ignore the first record, which often contains field names.
 - Select **Handle quoted text** if the program you used to export the records supports quoting fields. When you export a file from a database, quotes are often inserted around comma- and tab-delimited records; otherwise, a comma or tab appearing in a block of text (e.g., a description) would be interpreted as a new record.
 - Select **Map vertical tab to return** to restore the formatting of multi-line fields. Some applications map carriage returns in multi-line fields to vertical tab characters.
 - Select **Tab** or **Comma Delimiter** if either character is used to separate fields.
- 6 Match the TestTrack Pro fields in the right column to the fields in the left column.
Click and drag the fields in the right column up or down to the proper position. If you cannot find an exact match, use the closest equivalent.
- 7 Select the fields to import.

To select a field, click in the middle column next to the field. A check mark appears next to selected fields. Click again to deselect the field.

8 Click **Import**.

A progress indicator opens. Email notifications are not sent when you import files. The volume of email messages generated could cause some email servers to crash.

Note: Create a text file import template if you are going to import a file using this layout again.

Creating text file import templates

If you import text files with the same field layout often, save the format as a Text File Import Template.

- 1 Map the fields as described in [Importing text files, page 220](#).
- 2 Click **Save** in the Import Templates area on the Import dialog box.

The Save Import Template dialog box opens.

- 3 Select the file location, enter a file name, and click **Save**.

The Import Template is saved. You return to the Import dialog box.

Using text file import templates

- 1 Choose **File > Text File Import**.

The Import dialog box opens.

- 2 Click the **Load** button in the Import Templates area on the Import dialog box.

The Load Import Template dialog box opens.

- 3 Select the Import Template and click **Open**.

The template is loaded. You return to the Import dialog box.

Exporting to text files

Note: To export just a **few records**, select the records on the list window now. You can select records from any list window.

- 1 Choose **File > Text File Export**.

The Export dialog box opens.



- 2 Select the field type you want to export from the **Export fields** menu.

If you have a **Text File Export Template** that matches the file format, load it now and skip the following steps.

- 3 Select the fields to export.

Note: If you want to export all fields, click **Check All**. If you want to deselect all fields, click **Check None**.

- 4 Repeat steps 2 and 3 for all record types.

- 5 Select the Export options.

- Select **Export selected records only** to only export records selected in the list window.
- Select **Include column headings** to export the column headings.
- Select **Convert EOLs to spaces** to convert carriage returns/line feeds to spaces. This simplifies importing multi-line fields (e.g., defect description) into programs that do not handle fields with embedded carriage returns correctly such as Microsoft Excel.

- Select **Tab** or **Comma Delimiter** to insert the character between fields.

Note: If you are going to export a file using this layout again, save this format as a Text File Export Template.

- 6 Click **Export**.

The Export file dialog box opens.

- 7 Select the file location, enter a file name, and click **Save**.

A progress indicator opens and lets you know the file is being exported.

Creating text file export templates

If you export text files with the same field layout often, save the format as a Text File Export Template.

- 1 Set up the fields as described in [Exporting to text files, page 223](#).
- 2 Click the **Save** button in the Export Templates area on the Export dialog box.
- 3 Select the file location, enter a file name, and click **Save**.

You return to the Export dialog box.

Using text file export templates

- 1 Choose **File > Text File Export**.
- 2 Click the **Load** button in the Export Templates area on the Export dialog box.
- 3 Select the Export Template and click **Open**.

The template is loaded and you return to the Export dialog box.

Chapter 21

Customizing Email Templates

Give your users the information they need!

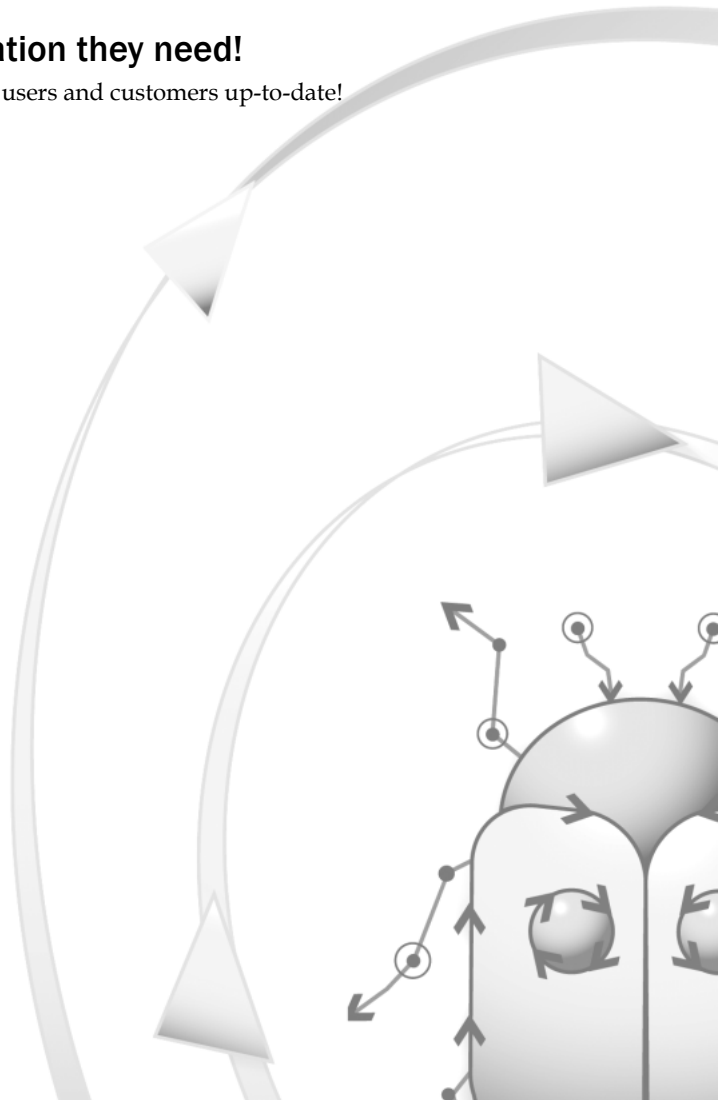
Customize email templates to keep your users and customers up-to-date!

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About email templates

Email templates are used to standardize email messages sent to users and customers who request email notifications and for sending confirmations to users/customers who submit items via email.

TestTrack Pro email templates can be used as provided or the template contents can be customized. You can customize the templates by using field codes, entering text, or a little of both.

Email templates support **field codes**, sequences of characters and letters that TestTrack Pro replaces with corresponding data from the database. For example, **%CREL%** is replaced with the method used to create the defect (e.g., SoloBug import).

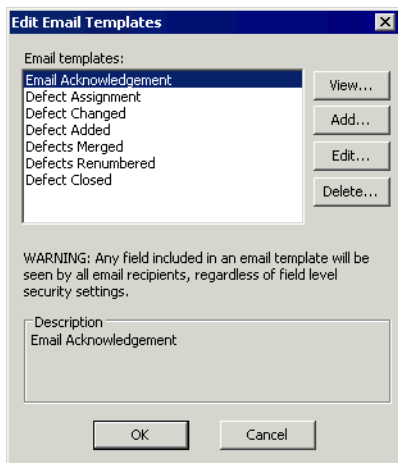
Note: [Appendix A, “Field Codes Reference”](#) page 239 includes a complete list of field codes supported by TestTrack Pro.

Adding email templates

Note: Any field added to an email template can be viewed by all email recipients, regardless of field level security settings.

- 1 Choose **Configure > Email Message Templates**.

The Edit Email Templates dialog box opens.



2 Click Add.

The Add Email Template dialog opens.

Add Email Template

Name: Force Close Defects

Description: Notify admin users when defects are force closed.

Template Format

Subject: Force Close Defects

Body of message:

The following defect was closed: %DNUM% by %Z_CLSB%

%Z_CLSB% --- Force Close By User

Template Access

☐ All users can view this template

☒ Only allow users in the following groups to view this template:

Administration

Recipient list for email notifications

☒ Each email has a single recipient (ensures privacy of email addresses)

☐ Email contains multiple recipients (can see who received mail)

☒ Send email in HTML format

OK Cancel

3 Enter a Name and Description.**4 Enter a Subject.**

You can enter text and use field codes to customize the subject line. For example, to use the defect number in the subject field, enter **%DNUM%**.

5 Enter the message body.

You can enter text and use field codes to customize the template. When you customize a template, any spaces and lines that you add are saved with the template. As you type, text is automatically wrapped to the next line. When an email message notification is sent, all field codes are automatically replaced with the corresponding data from the TestTrack Pro database.

6 Select a Template Access option.

- Select **All users can view this template** if you do not want to restrict users from receiving the template.
- Select **Only allow users in the following groups to view this template** then choose user groups to restrict the template. This option provides template security because the email is only sent to users in the selected groups.

- 7 Select a **Recipient List** option.
- 8 Click **OK**.

The email template is added.

Editing email templates

- 1 Choose **Configure > Email Message Templates**.
The Edit Email Templates dialog box opens.
- 2 Select an email template and click **Edit**.
- 3 Make any changes.
- 4 Click **OK**.

The changes are saved.

Deleting email templates

- 1 Choose **Configure > Email Message Templates**.
The Edit Email Templates dialog box opens.
- 2 Select an email template and click **Delete**.
You are prompted to confirm the deletion.
- 3 Click **Yes**.

The template is deleted.

Chapter 22

Working with SoloBug

Simplified customer bug reporting!

SoloBug is a stand-alone bug reporting application that works with TestTrack Pro. SoloBug lets customers submit defects directly to TestTrack Pro.

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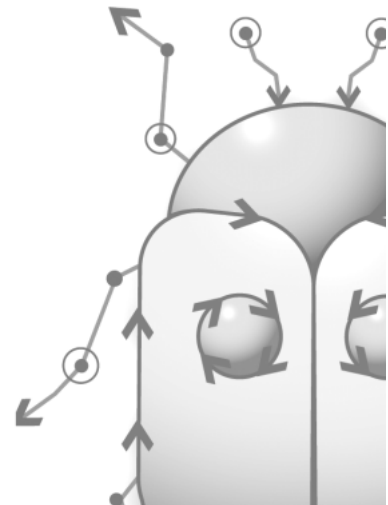
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About SoloBug

SoloBug includes the following benefits:

- Eliminates data entry of bug reports and feature requests by automatically importing bug reports into TestTrack Pro. When TestTrack Pro receives an email with a SoloBug file, it is automatically added to your database.
- Limits customers to your bug reporting terminology, saving data entry time.
- Captures customers' computer information, making it easier to track configuration-specific issues.
- Lets your customers and users include file attachments with bug reports and feature requests.

What are SoloBug files?

A SoloBug file contains a single bug report, or feature request, created by customers and users. The SoloBug file is emailed to an address you specify. You can import the file into any TestTrack Pro database. A SoloBug file contains:

- The customer's or user's personal information and computer setup.
- A description of the problem or feature request.
- Any additional data or files attached to the SoloBug file.

Customizing SoloBug for Windows

Before distributing SoloBug, customize the executable to make sure customers and users provide all the information you need. You can customize such things as the title, instructions, or field names. You can also rename fields, add field values, and make fields required.

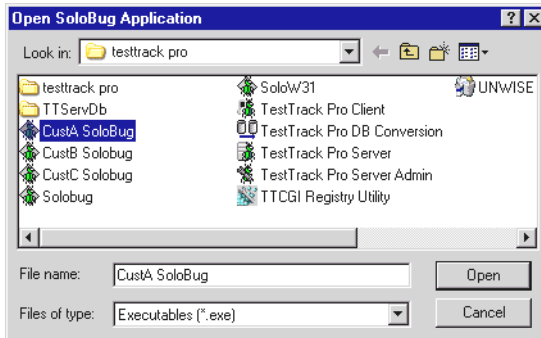
Note: To make sure the correct SoloBug executable is distributed for each database, copy and rename the executable to match the database name.

- 1 Start TestTrack Pro and login to the database you want to customize SoloBug for.
- 2 Choose **Configure > Customize SoloBug for Windows**.

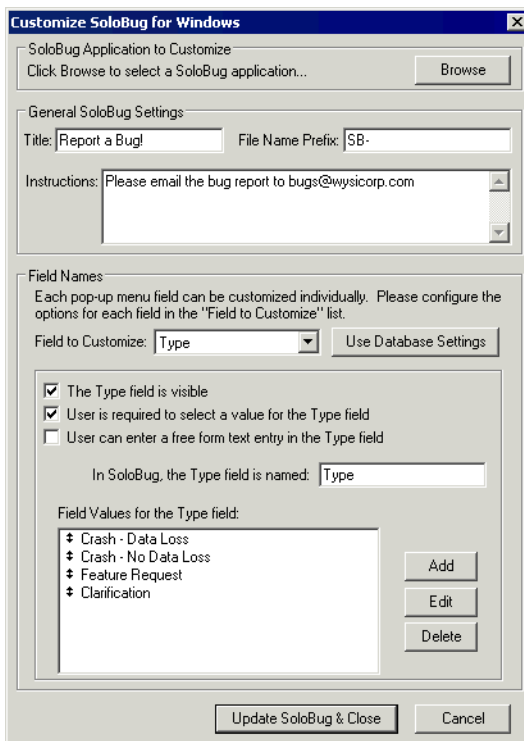
The Customize SoloBug for Windows dialog box opens.

- 3 Click **Browse** to select the SoloBug executable you want to customize.

The Open SoloBug Application dialog box opens.



- 4 Select a SoloBug executable and click **Open**.
- 5 You return to the Customize SoloBug for Windows dialog box, with all fields populated.



6 Enter the **General SoloBug Settings**.

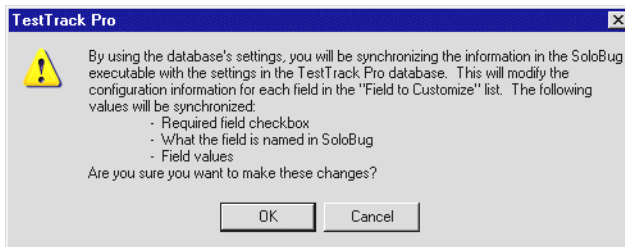
- **Title** appears in the title bar of the SoloBug application, preceding the name of the open bug report file.
- **File Name Prefix** becomes the first part of the SoloBug file name. The remaining portion of the bug report file name is a sequence number SoloBug generates to distinguish one file from another. This field can help you visually organize SoloBug files. For example, if you customize SoloBug for three different products, you can enter the product name in the File Name Prefix field.
- **Instructions** provide users with information specific to your use of SoloBug, such as the email address you want the files sent to. Instructions are not displayed if this field is empty.

7 Customize the fields and select field options.

If you customize field names, the customized name is listed. For example, Element is displayed if you rename Component to Element.

8 Click **Use Database Settings** to synchronize the information in the SoloBug executable with the TestTrack Pro database settings.

Selecting this option customizes all fields in the **Field to Customize** list.



Note: If you use the database settings, required fields, field names, and field values are synchronized with the TestTrack Pro database.

9 To customize a field, select the field from the **Field to Customize** list.

This example uses the Severity field. The field name changes based on the selected field.

10 **The field is visible** is selected by default.

Clear the check box to make the field and its label invisible.

11 Select **User is required to select a value for the field** to make this field required.

The SoloBug file cannot be saved until values are entered for all required fields.

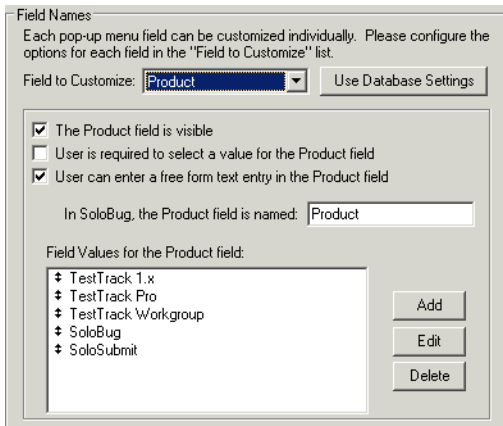
12 Select **User can enter a free form text entry in the field** to let users enter a value for this field.

- 13 To rename the field, enter the new name in the text box.

The values in the **Field to Customize** list are populated from the TestTrack Pro database. The **In SoloBug, the...field is named** value is populated from the SoloBug executable and may not match the **Field to Customize** selection.

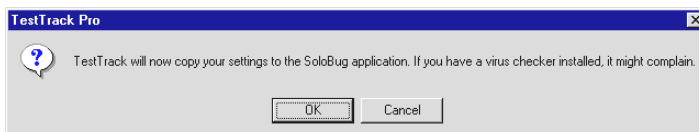
- 14 The default field values appear in the **Field Values** list.

You can add, edit, or delete any field value. To reorder the values, click the arrow next to the field and drag it up or down to a new position.



- 15 When you finish configuring field names and values, click **Update SoloBug & Close**.

TestTrack Pro modifies the SoloBug executable. The following message opens:



- 16 Click **OK**.

The customized SoloBug executable is ready for distribution.

Customizing SoloBug for Palm OS

SoloBug for Palm OS lets your users and customers easily submit bug reports and feature requests. You can customize such things as the title, instructions, and field names. In addition, you can rename fields, add field values, and make fields required. You can also provide a customized SoloBug database for each customer.

- 1 Start TestTrack Pro and login to the database you want to customize SoloBug for.
- 2 Choose **Configure > Customize SoloBug for Palm OS**.

The Customize SoloBug for Palm OS dialog box opens.

Customize SoloBug for Palm OS

Customization Option

- ☒ Create new Palm OS configuration database
- ☐ Edit existing Palm OS configuration database

Click Browse to select a SoloBug configuration...

Browse

General SoloBug Settings

Title: File Name Prefix:

Instructions:

Field Names

Each pop-up menu field can be customized individually. Please configure the options for each field in the "Field to Customize" list.

Field to Customize: Use Database Settings

☒ The Reproduced field is visible

☒ User is required to select a value for the Reproduced field

☐ User can enter a free form text entry in the Reproduced field

In SoloBug, the Reproduced field is named:

Field Values for the Reproduced field:

- Always
- Sometimes
- Rarely
- Could Not

Add

Edit

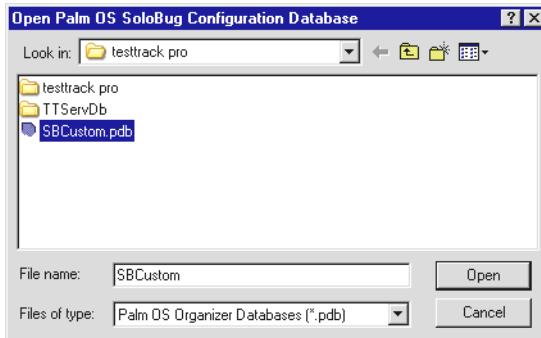
Delete

Save Cancel

- 3 Select **Create new Palm OS configuration database** to create a new configuration database. Skip to **step 5** to continue customizing the configuration database.
- 4 Select **Edit existing Palm OS configuration** to edit a configuration database.

- 5 Click **Browse** to select a Palm configuration database.

The Open Palm OS SoloBug Configuration Database dialog box opens.



- 6 Select the database you want to edit and click **Open**.

You return to the Customize SoloBug for Palm OS dialog box, with all fields populated.

- 7 Enter the **General SoloBug Settings**.

- **Title** appears in the title bar of the SoloBug application, preceding the name of the open bug report file.
- **File Name Prefix** becomes the first part of the SoloBug file name. The remaining portion of the bug report file name is a sequence number SoloBug generates to distinguish one file from another. This field can help you visually organize SoloBug files. For example, if you customize SoloBug for three different products, you can enter the product name in the File Name Prefix field.
- **Instructions** provide users with information specific to your use of SoloBug, such as the email address you want the files sent to. Instructions are not displayed if this field is empty.

- 8 Customize the fields and select field options.

If you customize field names, the customized name is listed. For example, Element is displayed if you rename Component to Element.

- 9 Click **Use Database Settings** to synchronize the information in the SoloBug executable with the TestTrack Pro database settings.

Selecting this option customizes all fields in the **Field to Customize** list.

Note: If you use the database settings, required fields, field names, and field values are synchronized with the TestTrack Pro database.

- 10 To customize a field, select the field from the **Field to Customize** list.

This example uses the Severity field. The field name changes based on the selected field.

- 11 The **field is visible** is selected by default.

Clear the check box to make the field and its label invisible.

- 12 Select **User is required to select a value for the field** to make this field required.

The SoloBug file cannot be saved until values are entered for all required fields.

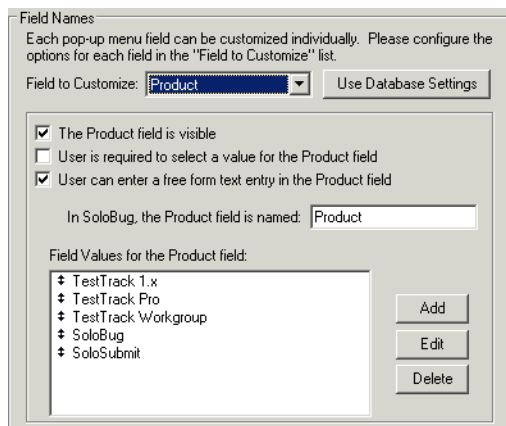
- 13 Select **User can enter a free form text entry in the field** to let users enter a value for this field.

- 14 To rename the field, enter the new name in the text box.

The values in the **Field to Customize** list are populated from the TestTrack Pro database. The **In SoloBug, the...field is named** value is populated from the SoloBug executable and may not match the **Field to Customize** selection.

- 15 The default field values appear in the **Field Values** list.

You can add, edit, or delete any field value. To reorder the values, click the arrow next to the field and drag it up or down to a new position.



- 16 Click **Save** when you finish customizing the configuration database.

- If you are creating a new database, the Save Palm OS SoloBug Configuration Database dialog box opens. Enter a file name and click **Save**.
- If you are editing an existing database, your changes are automatically saved.

- 17 The customized SoloBug executable is ready for distribution.

Distributing SoloBug

You can distribute SoloBug to customers, users, beta sites, etc. Refer to the SoloBug license included with TestTrack Pro for rules governing distribution of SoloBug applications. SoloBug is available for Windows, Macintosh, and the Palm OS.

SoloBug comes with a user guide you can edit and distribute. **Every topic** in the guide is included in the **online Help**, so you do not need to distribute the hard copy with SoloBug. You may want to customize the guide to include your company's name, email addresses, URLs, etc.

Customizing the SoloBug user guide

SoloBug comes with a user guide you can edit, print, copy, and distribute. **Every topic** in the guide appears in the **online Help**, so you do not need to distribute the hard copy with SoloBug. You may want to customize the guide with your company's name, email, URLs, etc.

Note: Make a backup copy of the SoloBug user's guide before you customize it!

The following SoloBug user files are located in the TestTrack Pro folder:

- **Solobug.doc** the SoloBug user guide in Microsoft Word format.
- **Solobug.pdf** the SoloBug user guide in Adobe Acrobat Reader format.
- **Solobug.hlp** the SoloBug Help file. The Help file cannot be customized.

Automatically importing SoloBug files

- 1 Choose **Edit > Options > Database Options**.

The Database Options dialog box opens.

- 2 Click the **SoloBug** tab and select the import options.

Overriding SoloBug automatic import settings

When you set the automatic import options, you select the interval you want TestTrack Pro to look for new SoloBug files; you can override this update interval at any time.

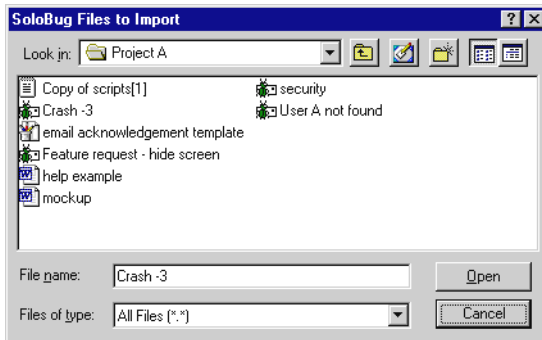
- 1 Choose **File > Import > Perform Server Import**.

The server checks for, and imports, new SoloBug files.

Manually importing SoloBug files

- 1 Choose **File > Import > Load SoloBug Files**.

The SoloBug Files to Import dialog box opens.



- 2 Select the SoloBug file(s) you want to import.

Remember, SoloBug files are saved with the **.sbg** extension.

- 3 Click **Open**.

The imported file(s) appears in the Defects list window at the end of the list. Notice the new defect icon appears next to it.

Note: You can also **drag and drop** the SoloBug file onto the Defects list window.

Appendix A

Field Codes Reference

Use field codes to automatically generate data!

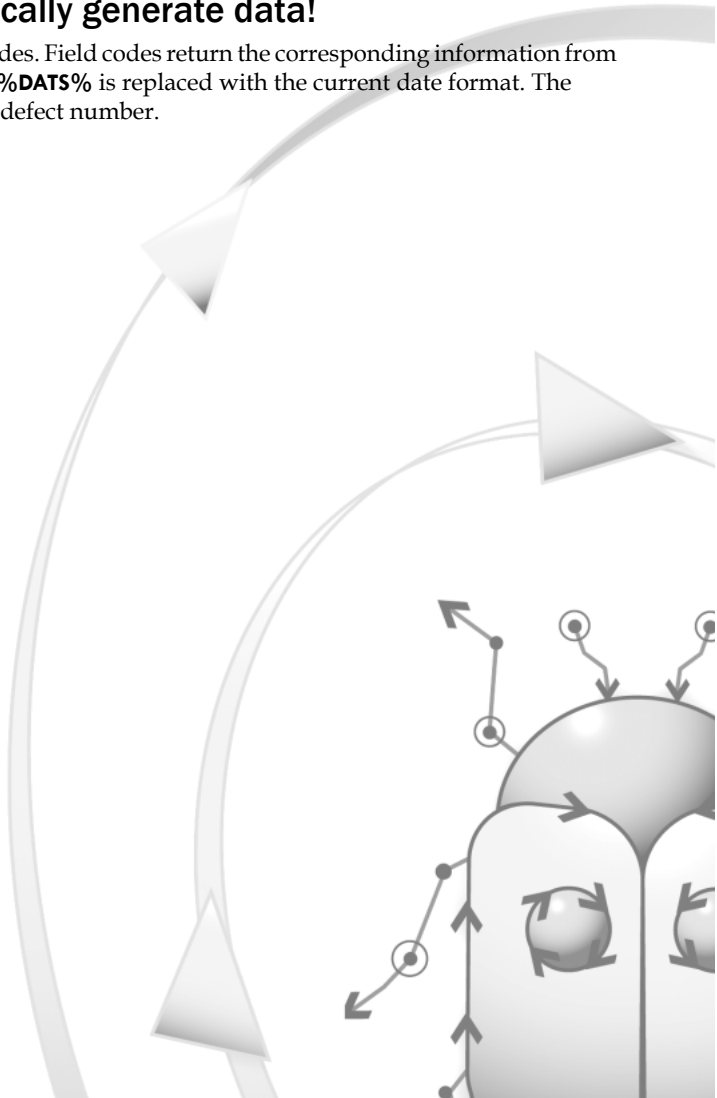
This appendix includes a list of all field codes. Field codes return the corresponding information from the database. For example, the sequence **%DATS%** is replaced with the current date format. The sequence **%DNUM%** is replaced with the defect number.

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Field code notes, 244



About field codes

Field codes are used to build customized email messages that provide information specific to the defect that triggered the notification or, in the case of an email acknowledgment, was imported via email. If you are creating an ad hoc report, you can use field codes to include specific database information for the report. You can also use field codes to build personalized SoloSubmit web pages that provide information specific to your company and your customers' use of SoloSubmit.

Field codes

Field Code	Description
%ASSB%	The user who made the defect assignment.
%ASSD%	The date the defect was most recently assigned.
%ASST%	The user to which the defect is assigned.
%ASSN%	The most recent defect assignment notes.
%CLSB%	The user who closed the defect.
%CLSD%	The date the defect was closed.
%CLSN%	The notes about closing the defect.
%CLSR%	The close resolution.
%CHNG%	The changes to the defect (only applies to Defect Changed notification).
%CMTA%	All of the defect's comments.
%CMTL%	The most recent defect comment.
%COMP%	The component containing the defect.
%CREB%	The user who was logged in when the defect was created.
%CRED%	The date the defect was created.
%CREL%	The method used to create the defect (e.g., SoloBug import).
%CUEM%	The currently logged in user's email address (does not apply to Email Acknowledgement notification).
%CUSR%	The currently logged in user's first and last name (does not apply to Email Acknowledgement notification).
%DATL%	The current date in long date format (mmmm, dd yyyy).
%DATS%	The current date in short date format (mm/dd/yy).
%DESC%	The first defect description.

Field Code	Description
%DISP%	The defect's disposition.
%DNUM%	The defect's number.
%DOCA%	Whether the most recent defect fix affects documentation.
%ENTB%	The user who entered the defect.
%ENTD%	The date the defect was entered.
%ESTB%	The user who most recently estimated the defect fix.
%ESTD%	The date of the most recent defect estimate.
%ESTE%	The most recent estimated effort to fix the defect.
%ESTN%	The notes of the most recent defect estimate.
%ESTV%	The defect's most recent estimated fix version.
%ESTW%	The defect's most recent estimated fix date.
%FILE%	The database's file name.
%FIXB%	The user who most recently fixed the defect.
%FIXD%	The date the defect was most recently fixed.
%FIXN%	The most recent notes about fixing the defect.
%FIXS%	The Fix Verify/Close value from the most recent fixed action.
%FIXT%	The total time required to fix the defect.
%FIXV%	The version in which the defect was fixed.
%FNDB%	The person who found the defect.
%FNDD%	The date the defect was found.
%FNDV%	The version in which the defect was found.
%MODB%	The user who last modified the defect.
%MODD%	The date the defect was last modified.
%NUMR%	The number of users and customers reporting the defect.
%PRIO%	The defect's priority.
%PRNM%	The Project Name field in the Project Info dialog.
%PROD%	The product containing the defect.

Field Code	Description
%REFR%	The defect's reference field.
%RELB%	The person who created the release notes.
%RELD%	The date the release notes were created.
%RELH%	Whether the defect has release notes.
%RELN%	The defect's most recent release notes.
%RELV%	The version in which the defect fix was released.
%REPR%	The defect's reproducible status.
%RESO%	The defect's fix resolution.
%SEQN%	The sequence number associated with the defect (applies only to Email Acknowledgment notification).
%SEVR%	The defect's severity.
%STAT%	The defect's status.
%STEP%	The steps to reproduce the defect.
%SUMM%	The defect's summary.
%TCFG%	The defect's test configuration name.
%TPLA%	Whether the most recent defect fix affects the test plan.
%TYPE%	The defect's type.
%VERB%	The user who most recently verified the defect.
%VERD%	The date the defect was most recently verified.
%VERN%	The most recent notes about verifying the defect.
%VERV%	The version in which the defect was verified.
%VPAS%	The Verify Pass/Close value from the most recent verify action.
%WORK%	The defect's workaround.
%WRKH%	Whether the defect has a workaround.
%_Z...%	Custom field code.

Label field codes

TestTrack Pro lets you rename defect field labels. The renamed field labels have corresponding field codes. These field codes return the field label, not the field data.

Field Code	Field Name
%DFUS_L%	Defect - upper case, singular
%DFUP_L%	Defects - upper case, plural
%DFUM_L%	Defect(s) - upper case, singular/plural
%DFLS_L%	defect - lower case, singular
%DFLP_L%	defects - lower case, plural
%DFLM_L%	defect(s) - lower case, singular/plural
%SUMM_L%	Summary Type
%TYPE_L%	Type
%DISP_L%	Disposition
%PRIO_L%	Priority
%PROD_L%	Product
%COMP_L%	Component
%REFR_L%	Reference
%SEVR_L%	Severity
%ENTB_L%	Entered by
%ENTD_L%	Date Entered
%STAT_L%	Status
%FNDB_L%	Found by
%FNDD_L%	Date Found
%DATE_L%	Date
%FNDV_L%	Version Found
%VERS_L%	Version
%DESC_L%	Description
%REPR_L%	Reproduced

Field Code	Field Name
%STEP_L%	Steps to Reproduce
%TCFG_L%	Computer Config
%HWSW_L%	Other Hardware and Software
%CFTB_L%	Custom Field tab



Remember, renamed label field codes only return the label name and not the field data. For example, you rename Reference to Case Number. You customize an email template to notify managers of a problem, including the case number in the subject line. In the subject line of the template, enter **%REFR_L%: %REFR%**. When a manager is sent an email, the subject line includes: Case Number (label): case number (data).

Field code notes

- All dates use system-defined date formats. TestTrack Pro uses the short-date style of the Regional Settings Properties defined in the Windows operating system.
- To include a percent sign (%) in the body of a message, include two percent signs in a row (e.g., “%%”).
- Email notifications support field codes in the email subject line. You can include personalized subjects such as **Re:%SUMM%** which expand to include the defect’s summary field in the email’s subject.

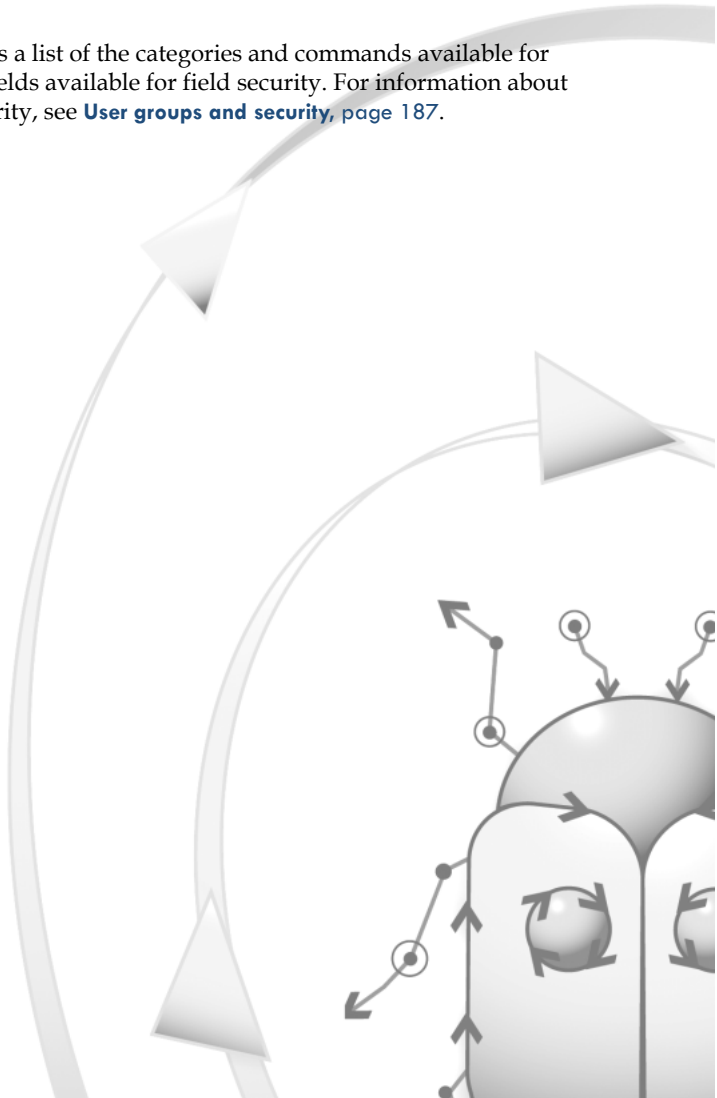
Appendix B Security Reference

User Groups and Security...

protect your data. This appendix includes a list of the categories and commands available for command security and the groups and fields available for field security. For information about creating user groups and setting up security, see [User groups and security](#), page 187.

[Command security](#), 246

[Field security](#), 251



Command security

Command security restricts access to a command and is set by category. For example, Can a user fix a defect? Command security includes the following categories: General commands, Administration commands, Defect commands, Customer commands, User commands, User group commands, Test configuration commands, Filter commands, Report commands, and Workbook commands.

General commands

Assign Defect Numbers

Renumber Defects

Edit Own Notifications

Modify own password

Modify own general user settings

Allow login via Windows client

Allow login via Web client

Allow login via add-in DLL

Allow login via SOAP

Change own list columns

Administration commands

Edit Database Options

Setup Project Fields

Setup Version Field

Configure Field Relationships

Configure Required Fields & Default Values

Rename Field Labels

Configure Workflow Rules

Configure Auto-Assign Rules

Configure Auto-Notify Rules

Configure Email Templates

Configure SCC DB Options

Delete Historical Defect Info

Show Logged In Users

Logout Other Users

Import From Text File

Export To Text File

Import From XML File

Export to XML File

Create Release Notes Output

Defect commands

Add Defects

View Defects

Edit Defects

Delete Defects

Duplicate Defects

Edit Closed Defects

Edit Defects Assigned to Anyone

Merge Defects

Edit Own Historical Actions

Edit Other's Historical Actions

Delete Historical Actions

See Notify Tab

See Workflow Tab

See SCC Tab

See History Tab

Add Attachments

Remove Attachments

View/Extract Attachments

Add Notify User

Remove Notify User

Add Reported by Record

Remove Reported by Record

Perform SCC Actions

Bulk Field Change

Override Workflow

Defect event commands

Add Attachments

Remove Attachments

View/Extract Attachments

Assign

Estimate

Fix

Verify

Force Close

Re-Open

Release Notes

Comments

Customer commands

Add Customers

View Customers

Edit Customers

Delete Customers

Duplicate Customers

Make Customer a User

Activate/Inactive Customer

User commands

Add Users

View Users

Edit Users

Delete Users

Duplicate Users

Edit User Login

Edit User Group Setting

Make User a Customer

Activate/Inactive User

User group commands

Add User Groups

View User Groups

Edit User Groups

Delete User Groups

Duplicate User Group

See Security Tabs

Test configuration commands

Add Test Configs

View Test Configs

Edit Test Configs

Delete Test Configs

Duplicate Test Configs

Filter commands

Add Filters

Mark Own Filters As Shared

Mark Shared Filters As Shared

View Own Filters

View Shared Filters

Edit Own Filters

Edit Shared Filters

Delete Own Filters

Delete Shared Filters

Duplicate Own Filters

Duplicate Shared Filters

Report commands

Add Reports

Mark Reports As Shared

View Own Reports

View Shared Reports

Edit Own Reports

Edit Shared Reports

Delete Own Reports

Delete Shared Reports

Duplicate Own Reports

Duplicate Shared Reports

Run Own Reports

Run Shared Reports

Workbook commands

Add Tasks

View Tasks

Edit Tasks

Delete Tasks

Field security

Field security affects defects and defect actions and restricts a user's ability to enter, or edit, field data. For example, can a user enter a resolution in the fix defect action field? Security can be assigned to the following fields: General fields, Found By fields, Assigned fields, Estimated fields, Fixed fields, Release to testing fields, Verified fields, Force close fields, Re-open fields, Release notes fields, Comment fields, and Custom fields.

General fields

Defect Number

Summary

Type

Priority

Status

Disposition

Product

Component

Reference

Severity

Entered by

Date Entered

Has Attachments?

Has Workaround?

Has SCC files?

Workaround

Date Created

Created By

Creation Method

Date Last Modified

Last Modified By

Currently Assigned To

- Current Assignment By
- Current Assignment Date
- Closed By
- Closed Date
- All Action Notes
- All Informational Notes

Found By fields

- Found by
- Found By Group
- Found By Company
- Date Found
- Version Found
- Description
- Reproduced
- Steps to Reproduce
- Computer Config
- Other Hardware and Software
- How Many?
- User or Customer

Assigned fields

- Assign By
- Date
- Notes
- Assign To

Estimated fields

- Estimate By
- Date

Effort

Version

Completion Date

Fixed fields

Fixed By

Date

Notes

Resulting State

Effort

Affects Documentation

Affects Test Plan

Resolution

Version

Release to testing fields

Release To Testing By

Date

Notes

Version

Verified fields

Verify By

Date

Notes

Resulting State

Version

Force close fields

Force Close By

Date

Notes

Resolution

Re-open fields

Re-open By

Date

Notes

Release notes fields

Release Notes By

Date

Notes

Release Version

Comment fields

Comment By

Date

Notes

Comment

Custom fields

Security can be set for custom fields. The names of these fields depend on the custom fields you set up.

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