Supporting Mercury Test Director bug tracking with Subversion

Overview

CollabNet Subversion repositories make it possible to store a project's data in a central location. The data can be accessed by users to track changes made to related files and documents. Subversion identifies each set of changes as a separate version of the file or directory.

A company that uses Mercury TestDirector to create and store test plans can set up Subversion as the underlying version control engine. TestDirector administrators can configure projects to use Subversion repositories, by using the CollabNet Connector to Mercury TestDirector/Quality Center Versioning. In addition, the connector allows users to view revision history and checkin comments from a CollabNet Enterprise Edition project.

Users must have permissions to perform versioning operations, such as checkin and checkout, on the CollabNet Subversion repository. Every time a file is updated and a checkin made in TestDirector, a new version is created in the Subversion repository of the corresponding CollabNet project. Users check out files to access the test plans from within TestDirector and to modify their content.

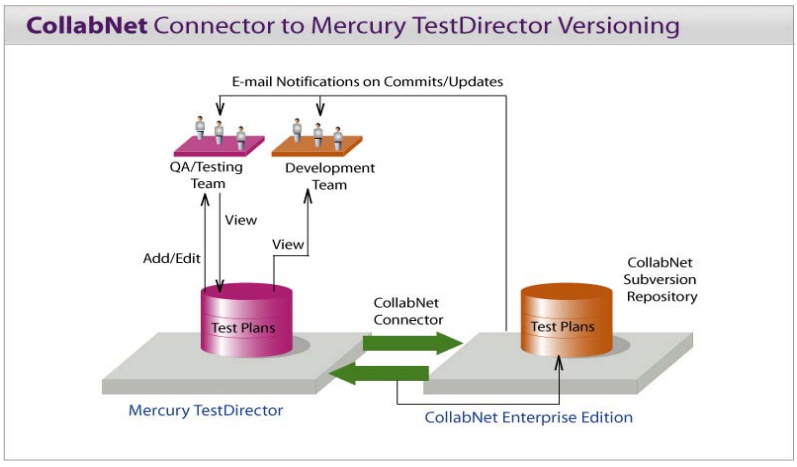
When users commit changes to the test plans, email notifications are sent to members who have subscribed to the "Commits" mailing list for that project.

Example

As an example, consider a scenario where you, as a quality analyst and also a TestDirector administrator, have created a test plan for a project named "Omega" in TestDirector. The following sections explain how you can use the connector to link the Omega project to a CollabNet project using Subversion, and how other project members and users can make and track changes to the test plan or create new ones.

Installing the Connector

The connector requires a system where Mercury TestDirector or Mercury TestDirector for Quality Center, and Java Runtime Environment version 1.4.2 or above are installed. To set up the connector, run the *Connector_Installer.exe* file and follow the installation directions. During installation, you will be asked to do the following:



1. Set up an XML configuration file which maps the TestDirector project to the CollabNet project. You can choose to do this automatically or by manually editing the *td2svn_cee.xml* file.
2. Provide details about the TestDirector project including the Domain name, Project name (example: Omega), and Login name for TestDirector.
3. Provide details related to the CollabNet project including CollabNet project URL (example: http://project.domain/svn/project/trunk), CollabNet user name and CollabNet user password .
4. Set up and enable the version control plug-in.

Using the Connector in TestDirector

For TestDirector to work with the CollabNet Subversion repository, you must do the following:

1. Enable version control for the TestDirector domain .
2. Enable version control for the Omega project, choosing the option to add your existing test plan to the CollabNet Subversion repository.

Every new test plan that you or other users subsequently create in this project will be added to the Subversion repository.

Working with Test Plans

You, or some other user assigned to the Omega project, can create additional test plans. This requires a TestDirector account and password. To create a new test plan for your project, do the following:

1. Log into TestDirector, create a new folder in the Test Plan tab, and select the test plan icon.
2. To work on the plan while locking out other users, select the Check Out Immediately checkbox.
3. Fill in the information for fields such as Level, Priority and Reviewed.
4. Add Attachments, Details, Design Steps and Test Scripts to the test plan.

Once you have created a test plan, it gets versioned in the CollabNet Subversion repository.

To modify some elements of your test plan, you can check out the plan and edit it. Note that when you check out a test plan, it is locked to other users. This prevents the possibility of another user overwriting the changes you have made.

After you have completed your changes, you can check in your test plan. Checking in a test plan enables the changes to be versioned. Note that every time a checkin is made, a new version is created and the test plan becomes unlocked.

If you need to revert to an earlier version of a test plan, you can do so by performing a checkout of that version.

Viewing Version Control Changes in CollabNet Enterprise Edition

Users assigned to the Omega project can use the CollabNet Subversion browser to view version control information for changes made to the test plans in TestDirector.

Follow these steps:

1. In CollabNet Enterprise Edition, click the **Projects** tab.
2. Select the project that is mapped to the TestDirector project.
3. Click the **Subversion** link in the left navigation pane. By default, the revision changes for the test plans are available in the **trunk** folder in the **Browse source code** section.

The CollabNet Subversion URL for a test plan in the example scenario would be similar to this:

https://<project name>.<domain name>/source/browse/<project name>/trunk/www/Omega/TESTS/Test_1

In the **TESTS** directory in the CollabNet project, there is a folder for each test plan created in TestDirector. The name of each folder starts with "Test_" followed by a sequential number. When a test plan is modified in TestDirector, it results in a new revision number that you can see here. Clicking a test plan link in the **File** field, provides the revision history for that plan.