



How to setup bugtracking system integration

Mantis and Bugzilla examples

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20070728	Francisco Mancardi	Initial version

Overview.....	1
Configuration example - Mantis.....	2
Environment.....	2
Step 1 – Mantis Configuration.....	2
Step 2 – Test Link – Configure Mantis interface.....	2
Step 3 – Test Link – Enable BTS integration.....	3
Configuration example - Bugzilla.....	4
Environment.....	4
Step 1 – Test Link – Configure Mantis interface.....	4
Step 2 – Test Link – Enable BTS integration.....	4
Screenshoots.....	5

Overview

The integration between Test Link 1.7 and a Bug Tracking System (BTS) has the following characteristics

- All communication between Test Link and the BTS is done through database tables.
- Testlink (at the time of this writing) is neither able to send data to the BTS, either able to receive data from the BTS, in the traditional model of function call.

After all the configuration is up and running, from a testlink user point of view the process will be:

1. While executing a test, it fails.
2. User saves execution result.
3. On the table displaying execution results data, an icon to access BTS feature will be available.
4. User clicks on link that opens BTS web page used for issue reporting.
5. After issue reporting, user has to take note of issue ID assigned by BTS, to input it into Testlink.
6. User returns to Testlink test execution page, and writes the issue ID in the bug input.
7. After user saves the execution, Testlink will display data taken from the BTS database.



Configuration example - Mantis

This configuration is valid for Test Link 1.7.0 or greater.

Environment

- Testlink and Mantis installed on the same webserver

Mantis URL	http: !al"pso mantis
Test Link URL	http: !al"pso testlink
Mantis Database name	mantis#\$t
MySQL user/password to access Mantis DB	mantis#\$t#user mantis#\$t#passwor%

&step 1 ' Mantis Configuration

- anonymous login into mantis has to be turned on.
- a mantis user with viewer rights to all public projects, must be created. (anonymous account)

Change/add following lines in your mantis config_inc.php (replace %um m" with the anonymous account you will use)

```
# --- anonymous login -----
# Allow anonymous login
$g_allow_anonymous_login = ON;
$g_anonymous_account = 'dummy';
```

&step (' Test Link ' Configure Mantis interfa!e

Edit file) "our testlink main %ire! tor" * !fg mantis.!fg.php.

```
/** The DB host to use when connecting to the mantis db */
define('BUG_TRACK_DB_HOST', 'calypso');

/** The name of the database that contains the mantis tables */
define('BUG_TRACK_DB_NAME', 'mantis_bt');

/** The DB type being used by mantis */
define('BUG_TRACK_DB_USER', 'mantis_bt_user');

/** The DB password to use for connecting to the mantis db */
define('BUG_TRACK_DB_PASS', 'mantis_bt_password');

/** link to the bugtracking system, for viewing bugs */
define('BUG_TRACK_HREF', "http://calypso/mantis/view.php?id=");

/** link to the bugtracking system, for entering new bugs */
define('BUG_TRACK_ENTER_BUG_HREF', "http://calypso/mantis/");
```



&step + ' Test Link - Enable , T& integration

Copy the following lines from ! onfig.in! .php to ! custom#! onfig.in! .php.

```
// -----  
/** [Bug Tracking systems] */  
/**  
 * TestLink uses bugtracking systems to check if displayed bugs resolved, verified,  
 * and closed bugs. If they are it will strike through them  
 *  
 * NO : no bug tracking system integration  
 * BUGZILLA : edit configuration in TL_ABS_PATH/cfg/bugzilla.cfg.php  
 * MANTIS : edit configuration in TL_ABS_PATH/cfg/mantis.cfg.php  
 * JIRA : edit configuration in TL_ABS_PATH/cfg/jira.cfg.php  
 * TRACKPLUS : edit configuration in TL_ABS_PATH/cfg/trackplus.cfg.php  
 */  
$g_interface_bugs='NO';
```

On ! custom#! onfig.in! .php change line:

```
$g_interface_bugs='NO';
```

Final result:

```
$g_interface_bugs='MANTIS';
```



Configuration example - , ug-illa

This configuration is valid for Test Link 1.7.0 or greater.

Environment

- Testlink and Bugzilla installed on the same webserver

Bugzilla URL	http: !al" pso \$ug-illa
Test Link URL	http: !al" pso testlink
Bugzilla Database name	\$ugs
MySQL user/password to access Mantis DB	\$ug-illa#user \$ug-illa

&tep 1 ' Test Link ' Configure Mantis interfa! e

Edit file) " our testlink main %ire! tor" * !fg \$ug-illa.!fg.php.

```
define('BUG_TRACK_DB_HOST', 'calypso');
define('BUG_TRACK_DB_NAME', 'bugs');
define('BUG_TRACK_DB_USER', 'bugzilla_user');
define('BUG_TRACK_DB_PASS', 'bugzilla');

/** link to the bugtracking system, for viewing bugs */
define('BUG_TRACK_HREF', "http://calypso/bugzilla/show_bug.cgi?id=");

/** link to the bugtracking system, for entering new bugs */
define('BUG_TRACK_ENTER_BUG_HREF', "http://calypso/bugzilla/");
```

&tep (' Test Link - Ena\$le , T& integration

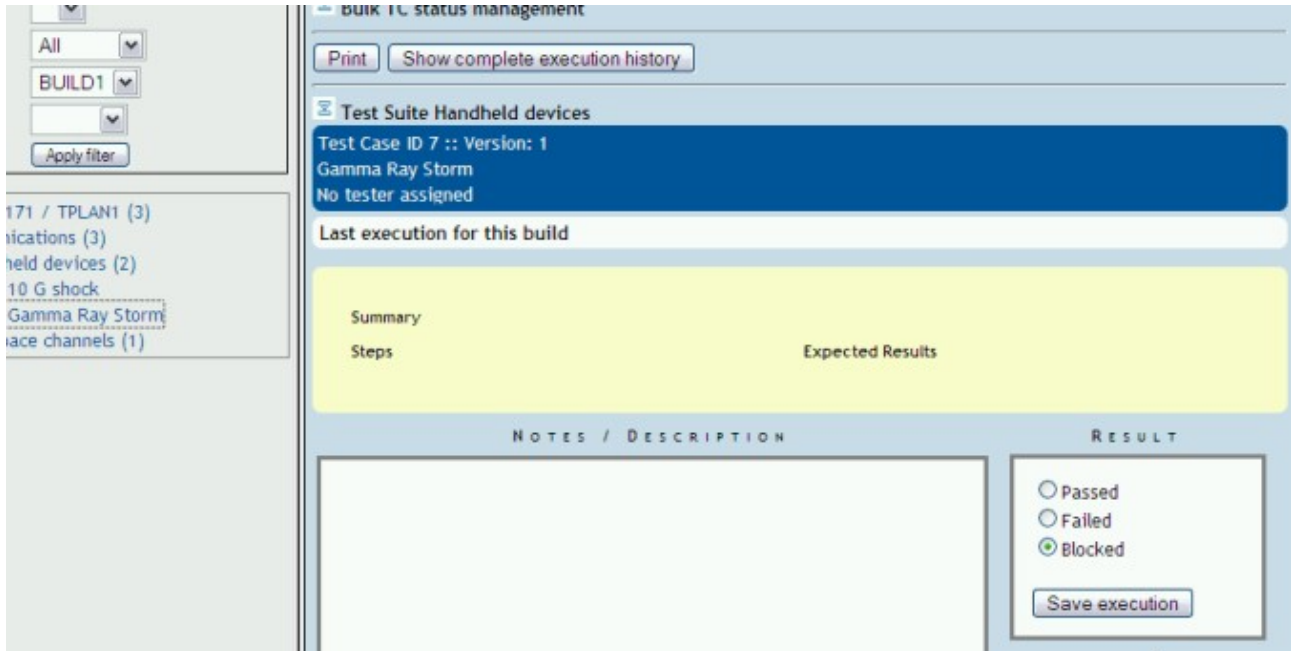
On !ustom#! onfig.in! .php create line:

```
$g_interface_bugs='BUGZILLA';
```



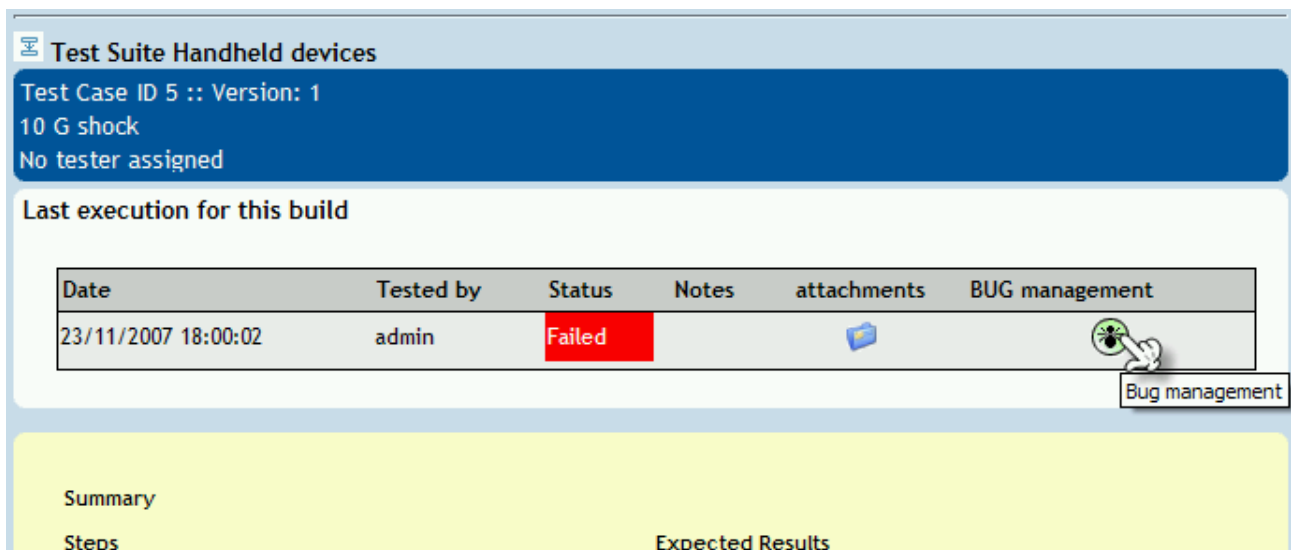
&! reenshoots

After your configuration is OK, Login to TestLink, and go to execute one test case:



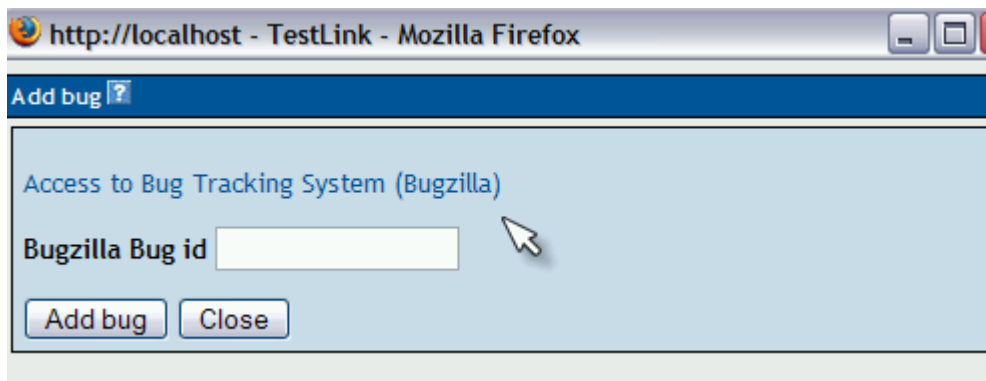
A difference with previous TestLink versions, is that there is no sign, that BTS integration is enabled.

After test case has been executed, access to bug management will be available:





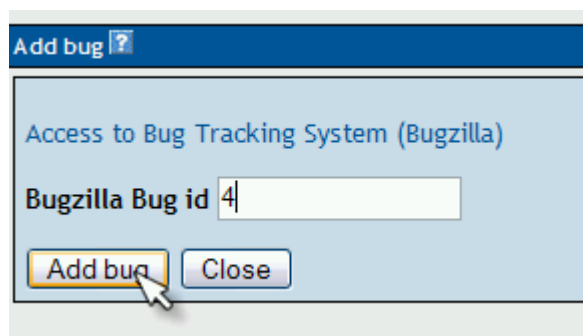
After clicking on icon, the following window will be opened:



If you already have an issue number you can use it, otherwise you click on link to access to Bugzilla, opening a new window:



After having created the issue, you return to add issue number on TestLink window:





After successful operation:

A screenshot of the 'Add bug' dialog box in Test Link. The dialog has a title bar 'Add bug' with a help icon. Below the title bar, there is a message 'Bug added' with a mouse cursor pointing to it. The main area of the dialog is light blue and contains the text 'Access to Bug Tracking System (Bugzilla)'. Below this, there is a text input field labeled 'Bugzilla Bug id'. At the bottom, there are two buttons: 'Add bug' and 'Close'.

Clicking on Close, you return to execute screen, to find:

A screenshot of the 'Test Suite Handheld devices' screen in Test Link. The screen shows 'Test Case ID 5 :: Version: 1' and '10 G shock'. Below this, it says 'No tester assigned'. A section titled 'Last execution for this build' contains a table with columns: Date, Tested by, Status, Notes, attachments, and BUG management. The table has one row with the date '23/11/2007 18:00:02', tested by 'admin', and status 'Failed'. Below the table, there is a section for 'Relevant bugs' showing '4 - upload failure' with a red 'X' icon.

Clicking on link, you will get (if you are still logged on Bugzilla):

A screenshot of the Bugzilla Bug 4 page. The page has a dark blue header with the 'Bugzilla' logo and 'Bugzilla Version 2.20'. Below the header, the title is 'Bugzilla Bug 4' and the description is 'upload failure'. The page is divided into two main sections: 'Bug details' on the left and 'Bug actions' on the right. The 'Bug details' section includes fields for 'Bug#', 'Product', 'Component', 'Status', 'Resolution', 'Assigned To', 'URL', and 'Summary'. The 'Bug actions' section includes fields for 'Hardware', 'OS', 'Version', 'Priority', and 'Severity'. The page is green and has a navigation bar at the top with links like 'First', 'Last', 'Prev', 'Next', and 'Enter new bug'.