

How to setup bugtracking system integration Mantis and Bugzilla examples

Date	Author	Notes
20071123	Francisco Mancardi	Bugzilla example
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<u>Overview</u>

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://calypso/mantis
Test Link URL	http://calypso/testlink
Mantis Database name	mantis_bt
MySQL user/password to access Mantis DB	mantis_bt_user/mantis_bt_password

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 **dummy** with the anonymous account you will use)

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

Step 2 – Test Link – Configure Mantis interface

Edit file <your testlink main directory>/cfg/mantis.cfg.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 3 – Test Link - Enable BTS integration

Copy the following lines from config.inc.php to custom_config.inc.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_config.inc.php** change line:

\$g_interface_bugs='NO';

Final result:

\$g_interface_bugs='MANTIS';



Configuration example - Bugzilla

This configuration is valid for Test Link 1.7.0 or greater.

Environment

• Testlink and Bugzilla installed on the same webserver

Bugzilla URL	http://calypso/bugzilla
Test Link URL	http://calypso/testlink
Bugzilla Database name	bugs
MySQL user/password to access Mantis DB	bugzilla_user/bugzilla

Step 1 – Test Link – Configure Mantis interface

Edit file <your testlink main directory>/cfg/bugzilla.cfg.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/");

Step 2 – Test Link - Enable BTS integration

On custom_config.inc.php create line:

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



Screenshoots

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

All	Buik TC status managemen Print Show complete exec S Test Suite Handheld device Test Case ID 7 :: Version: 1 Gamma Ray Storm No tester assigned	cution history	
ications (3)	Last execution for this build		
held devices (2)			
10 G shock Gamma Ray Storm ace channels (1)	Summary Steps	Expected Resu	ilts
	Νοτε	S / DESCRIPTION	RESULT
			○ Passed ○ Failed ④ Blocked Save execution

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:

Test Suite Handheld de Test Case ID 5 :: Version: 1 10 G shock No tester assigned	vices				
Last execution for this bu	ild				
Date	Tested by	Status	Notes	attachments	BUG management
23/11/2007 18:00:02	admin	Failed		ø	E
					Bug managemen
Summary					
Steps			Expected I	Results	



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

👻 http://localhost - TestLink - Mozilla Firefox 📃 🗖				
Add bug 😰				
Access to Bug Tracking System (Bugzilla) Bugzilla Bug id Add bug Close				

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

Bugzilla	
Bugzilla Main Page	Buggilla Version 2.20
But it all boils down to a choice of Search existing bug reports	
Login:	
Lagin [Forgot my Password] Open a new Bugnila account	a area
Add to Sidebar (requires a Monila browser like Mozila Firefoa) Enter a bug # or some search terms Show [Help]	

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



After successful operation:

1.2

Bug added
6

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

st Case ID 5 :: Version: 1 G shock tester assigned					
st execution for this bu	ild				
Date	Tested by	Status	Notes	attachments	BUG management
				-	~
23/11/2007 18:00:02	admin	Failed		1	۲
23/11/2007 18:00:02	admin Relevant b	Failed			*

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

		Bugzi	Ila Version 2.20	
Bugzilla Bug 4	upload	l failure		
First Last Prev Next	No search results available	Search page Ent	ter new bug	
Bug #: <u>4</u>		Hardwar	e: PC 💌	Bonortor Gabriela
Product: TestLi	nk 1.6 💌	<u>0</u>	S: Windows 🛩	<user1@< td=""></user1@<>
Component: COMF	ONENTI	Versio	n: unspecified 🖌	Add CC:
Status: NEW		Priorit	y: P2 💌	CC:
Resolution:		Severit	v: normal	~
Assigned To: Gabriel	a (password=login name) @:com>			
URL:				
Summary upload fail				