

IMPORTANT NOTICE

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If you have the ClearQuest application running at this time, please close it before continuing the install process.

If you do not have administrator rights on the machine you are installing on, please arrange with a system administrator to perform the installation.

INTRODUCTION

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Greetings, and thank you for your support of Ring-Zero products. This file contains information that you should read before continuing to install the Ring-Zero Test Adapter for Mercury WinRunner.

If at any point there is something that is not clear, or you would like guidance on, please contact Ring-Zero support. We are happy to help you get up and running, including setting up a web support session to assist you through the installation process.

Email : support@ring-zero.com
Web : <http://www.ring-zero.com/support>
Telephone : +1 800 - 742 - 1312

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1. SYSTEM REQUIREMENTS

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ClearQuest Database

The most important requirement is to have created a ClearQuest database that is appropriate for evaluation purposes.

If you are using one of the schemas that comes with ClearQuest for evaluation, the "Enterprise" schema is the only schema that supports integration with RequisitePro. If part of your evaluation process is linking Mercury tests to RequisitePro requirements, keep this in mind.

Please carefully choose which database(s) you are going to use before installing the Test Adapter.

Rational Client Support

Revision 1.1.9 and later versions of the Test Adapter work with the "7.0.1.0" and later versions of the Rational ClearQuest client.

Mercury WinRunner Client Support

This version of the adapter has only been tested with Mercury WinRunner versions 8.2 and 9.2. It is not validated for any other versions.

The installer will install the adapter if you have any patch level of Mercury WinRunner version 8; however, it is strongly recommended that the customer use WinRunner 8.2 or WinRunner 9.2.

Rational SDP / Functional Tester

This version of the test adapter requires version 6.1.1.1 of the Rational Functional Tester to be installed. Along with this version of Rational Functional Tester, the ClearQuest Client for Eclipse (version 7.0.1.0) must be installed into the Functional Tester client and any appropriate update patches for this client as well. There are brief instructions on how to do this below in this document.

The current build of the Test Adapter has only been validated with Rational Functional Tester. Further SDP applications may be validated in the future. Please contact Ring-Zero if you have questions.

Adobe Acrobat Reader

Some documentation is provided in PDF format. The Adobe Acrobat Reader (free) is required to read these files.

Acrobat Reader can be downloaded from this Adobe website:
http://www.adobe.com/go/gntray_dl_get_reader

2. SETUP AND CONFIGURATION

Installation Instructions

If the ClearQuest application is running at the time of installation, please exit ClearQuest.

The installer is automated and will check for appropriate versions and locations of Rational ClearQuest and Mercury WinRunner.

Installation for Rational Functional Tester

Out of the box, Rational Functional Tester (RFT) does not have the ClearQuest Client for Eclipse installed and there are a number of installation steps required to get the WinRunner test adapter working with the RFT client:

1. Install RFT and then use the Rational Update Manager Application to update to 6.1.1.1.
2. Install CQTM and then install FixPack 1 for ClearQuest, updating ClearQuest to version 7.0.1.0.
3. Install the ClearQuest Client for Eclipse by running RFT Java (for example) and then inside RFT:

use \program files\rational\clearquest\eclipse

as your 'update site'.

Select all the CQTM checkboxes (4 items) and install.
(it will restart RFT at the end)

4. Run RFT and then from inside RFT:

Help | Software Updates | Find and Install | Search for updates
of the currently installed features

(wait for IBM site to find all the CQ updates and download them)
(it will restart RFT again)

5. Quit RFT

6. Install Ring-Zero WinRunner adapter

Additional Information on Rational Functional Tester

1. Go to <http://www.ibm.com/shop/publications/order>.
2. Click Search for Publications.
3. In the Publication number field, enter the number of the form:
GI11-6375-00 from the title page of this document.

License Installation

Installing your evaluation or purchased license is handled from inside
ClearQuest.

Using the "Tools | Preferences" menu item, bring up the Preferences
dialog in ClearQuest. Find the "Mercury WinRunner" preference dialog
under the "Test Management" category and either browse to your
evaluation license file or enter in the appropriate information for your
license server.

There is additional information on licensing in section 5, "Licensing",
of this file.

Installed Files

The base installation directory within the Windows "Program Files"
directory for the Test Adapter is:

\Ring-Zero Software\Ring-Zero Test Adapter for Mercury WinRunner

The installation program copies the following files to your computer.

readme.rtf	Important information for the Test Adapter user
\documentation	Documentation for the Test Adapter
\installer	Script files used for install and uninstall
\license	End-user license files
\wr8	Eclipse feature and plug-in for WinRunner 8.2
\wr9	Eclipse feature and plug-in for WinRunner 9.2

In addition to copying these files, the installer also creates a "links"
subdirectory (or uses this directory if it already exists) and a link
file within this directory to enable ClearQuest to load the Test Adapter
when you run ClearQuest.

Uninstall Instructions

Please exit the ClearQuest application before uninstall.

Note that the uninstall process does not delete any data from your ClearQuest database.

3. KNOWN PROBLEMS OR LIMITATIONS

Test Properties Not Stored After Associating a Test Script

There is an IBM Rational bug in the current version of ClearQuest. Unless the "Next" button is clicked to go to the second page of the "Associate Test Script" dialog, the test properties are not stored with the test.

It may be, depending on your particular testing environment and the specifics of the individual test, that your test does not run.

If you wish to flag all tests without stored properties, in the adapter's preferences, you can have the adapter pop up an error when a test without properties is run by the user.

This IBM Rational bug is due to be fixed in an upcoming release of ClearQuest. Please contact Ring-Zero for more information on this issue.

Custom Plugins

Due to another IBM Rational bug, installing a new test adapter or uninstalling an existing test adapter will leave ClearQuest in a non-working state.

Ring-Zero has implemented a workaround for this bug, but the side-effect of the workaround is the removal of any custom plugins that the user may have installed.

These plugins will have to be re-added to ClearQuest after a test adapter has been installed/uninstalled.

Uninstall Does Not Clear Data

The uninstaller does not remove any data from your database. This can be important as each time a new test adapter is installed, a new test type is created by ClearQuest. This test type and any tests will remain in the ClearQuest database after uninstall.

Mercury Test Director and Quality Center

There is no facility to utilize Mercury test assets that are stored inside of Mercury Test Directory or Mercury Quality Center. Please contact Ring-Zero for additional information on this issue.

4. ONLINE HELP

The best way to learn about using the Test Adapter is to read the online help.

To get to the online help:

- Click on the "Help" menu in ClearQuest
- Click on "Help Contents"
- Click on the item "Ring-Zero Test Adapter for Mercury WinRunner"

5. LICENSING

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Notes

All license configuration is done from within the ClearQuest environment using ClearQuest preferences.

Adding an Evaluation License

From within ClearQuest, select the "Tools" menu and click on the "Preferences" menu item.

Make sure the "License type" is set to "Evaluation license".

Use the "Browse" button to navigate to the location of the evaluation license you received from Ring-Zero.

Changing From Evaluation to Purchased License

From within ClearQuest, select the "Tools" menu and click on the "Preferences" menu item.

Make sure the "License type" is set to "Purchased license".

Enter in the "port@server" information you received from your System Administrator. This information tells the Test Adapter where to get a license. Your System Administrator will have installed the license server on a particular machine and enabled the testing workstations to communicate with this machine.

If you do not have the "port@server" information at hand, you can hit the "Cancel" button and ClearQuest will not clear your Evaluation License information.

License Preferences Dialog Behavior

Whenever the license type is changed from one type to another, "evaluation to purchased" or "purchased to evaluation", the license information for the old type is cleared from the dialog display.

If you do not want ClearQuest to save the cleared information (i.e. remove it), just click the "Cancel" button for the dialog instead of "OK".

ClearQuest also saves the last location of where you browsed for an evaluation license, so usually it is easy to add the location of your evaluation license file back to ClearQuest even if it was cleared accidentally.

6. IMPORTING TEST CASE LOGS

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Script Names Must Match

When importing the results of previous test runs, the script name referenced in the results file must match the script name that was associated with the test case in ClearQuest.

If the scripts do not match, ClearQuest will present an error.

To avoid script name mismatches, it is best to create a permanent UNC path to your Mercury test results and to use this UNC name when associating test scripts.

7. HOW LOCALES ARE HANDLED

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Logs Are Processed Using the Current Locale

In both cases, namely running tests and importing test logs, the current locale is used to interpret the time associated with the test results.

The caveat here is if you are importing test logs that were created in a different time zone than your current time zone, the times that get imported will not match the actual time of the test run.

Also note that if the locale itself changes from where the test logs were created versus where the test logs are being imported, there may be date/time parsing issues associated with this locale change.

The best practice that Ring-Zero recommends is to create and import your test logs in the same place in the same time zone.

Errors Parsing Dates

Because of the impedance mismatch between Mercury WinRunner's C-based date/times and ClearQuest's Java-based date/times, there may be times when the format string used to parse the date/times for your locale is not correct.

The way to fix this is to look at the Preferences for the Ring-Zero Test Adapter for WinRunner. Next to the version information in the upper right hand corner of the Preferences page will be the locale identifier that ClearQuest is using. Make a note of this locale identifier.

When there is a date/time that cannot be parsed, a warning dialog with the example date/time is shown. Make a note of the specific format that was not able to be parsed.

To fix this issue, first exit ClearQuest.

Now in the root directory of the Ring-Zero Test Adapter for WinRunner, there is a file called 'locale.ini'.

This directory is usually located as follows:

```
C:\Program Files\Ring-Zero Software\  
Ring-Zero Test Adapter for Mercury WinRunner\wr8\  
\eclipse\plugins\com.ringzero.adapters.testexecution.mercury.wr_1.2.0\  

```

Open this file in a text editor and find the locale that you made a note of. Looking at the unparsed date/time format, edit the format string being used by the Ring-Zero Test Adapter to match.

If you need help, please contact us.

After editing the file, restart ClearQuest. Re-run your test with the date/time that cannot be parsed and make sure it can now be parsed.

Adjusting the format string will work in many situations, but there may be cases where it does not. If you have such a case, please contact Ring-Zero for assistance.

8. CHANGES FROM TEST ADAPTER VERSION 1.1.9

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There are three changes in the 1.2.0 adapter behavior compared to how the 1.1.9 adapter functioned.

New adapter preference setting: Treat stopped script executions as Inconclusive (default is 'True'). If this setting is 'True', cancelled scripts will be interpreted as 'Inconclusive' in CQTM. If the setting is 'False', the script will be interpreted according to the verification point results within the script, regardless of whether the script's execution was cancelled.

New adapter preference setting: Terminate script execution immediately if cancelled (default is 'False'). If this setting is 'True', the Test Adapter will attempt to terminate the WinRunner testing tool and related processes if execution is cancelled in CQTM. If this setting is 'False', the Test Adapter will process the cancellation after completion of the currently executing WinRunner script. There is a bug in CQTM prior to version 7.0.1.2 (7.0.1 FixPack 2) which causes CQTM to produce an error dialog after cancellation of the executing script.

New date format locale setting for computers which report a locale of "en_DE".

Workaround for instances in which WinRunner generates XML log files which contain invalid control characters.