

QMetry Plug-in for ROBOT Framework (Version 3.3)

Download: <http://downloads.qmetry.com/QMetryLaunchers31/QMetryLaunchers.zip>

This zip contains following files:

- **QMetry Launchers library: QMetryLaunchers.jar**

This library is responsible for fetching Test Case information from QMetry Test Automation Agent and launching the Test Scripts. Once Test Script execution is complete, this library will upload the Test Results to QMetry. This library contains out-of-the-box launchers for Selenium Framework, ROBOT Framework and Generic Adapter

- **Configuration File: QMetryConfig.properties**

This file contains configuration related to QMetry instance. These configuration settings will be used for communicating with QMetry Server for updating the Test Results.

- **QMetry Agent Configuration Template: QMetryAgent.properties-ROBOT-addons**

This file contains 2 additional configuration parameters for QMetry Test Automation Agent and ROBOT Framework integration

System Requirements:

- Operating System: Windows XP, Windows Vista, Windows 2003 Server, Windows 7, *Unix
- Java Runtime: Java version 1.6 or later
- Root/administrator privilege to install QMetry Test Automation Agent as Windows Service/Unix daemon
- ROBOT Framework related libraries
- Python and Jython must be installed on the same machine

How to integrate QMetry Agent with Selenium Framework?

1. Login to QMetry Web Application
2. In **Test Case Management**, go to **Admin->Agent** tab
3. Create an Agent by clicking the **Add Agent** button
4. Download QMetry Agent (*QMetryAgent.zip*) as instructed
5. Download QMetry Agent Configuration file (*QMetryAgent.properties*) as instructed
6. Extract QMetryAgent.zip file on your test machine. We assume that you will extract it on C:\
7. Copy *QMetryAgent.properties* (downloaded in Step #5) to C:\QMetryAgent\bin directory
8. Download [QMetry Launcher](#)
9. Extract *QMetry QMetry Launcher* zip file on your test machine, where QMetry Agent is running. We assume that you will extract it on C:\

10. Open *QMetryAgent.properties* from *C:\QMetryAgent\bin* directory and add two lines from *C:\QMetryLaunchers\QMetryAgent.properties-ROBOT-addons* file
11. *QMetryAgent.properties-ROBOT-addons* file contains paths assuming that *QMetryLaunchers.zip* and *QMetryAgent.zip* are extracted on *C:*. If you have extracted the files at some different location, then please update these paths accordingly.
12. If your ROBOT Test Scripts has dependencies on other JAR files, then please add them under TESTSCRIPTWRAPPER property
13. If the machine on which ROBOT test scripts will be run has a firewall or proxy, then open the set the setProxy=true and
14. Open *C:\QMetryLaunchers\QMetryConfig.properties* and update all parameters. In particular:
 - a. QMetryURL should be set to the url of your QMetry instance
 - b. Values should be set for QMetryUsername & QMetryPassword
 - c. Update needed settings under the 'Robot Framework specific parameters' heading. The *jybot.bat.filepath* should be the path of the jybot.bat or jybot.sh file
 - d. If your automation instance is behind a proxy/firewall then the parameters ProxyHost, ProxyPort, ProxyUser, ProxyPassword will have to be set accordingly and the value of setProxy changed to true
15. Install QMetry agent by running the *InstallQMetryAgent.bat* file from *C:\QMetryAgent\bin*

Note: You must have administrative privileges to run this file. If you do not have administrative privileges, then run *StartQMetryAgent.bat* from *C:\QMetryAgent\bin*

If you are configuring QMetry Agent on *unix platform, then you need to run *QmetryAgent.sh* to configure the agent as Unix Daemon. You must have root privileges to start QMetry Agent as Unix Daemon.
16. If QMetry Agent is successfully configured and started, then you will see its status as "Active" under **Admin->Agent** tab in Test Case Management in QMetry application

The steps mentioned above are for one time configuration.

How to execute ROBOT Test Cases from QMetry Application?

1. Login to QMetry application
2. In **Test Case Management**, go to **TestCases** module
3. Create a Test Case and specify your ROBOT Test Suite file path under the **Test Script Name** field (for example *C:\robotframework-seleniumlibrary-demo\valid_login.txt*)
4. In **Test Case Management**, go to **TestSuites** module
5. Create a Test Suite and link the Test Case created above with this Test Suite
6. In **Test Case Management**, go to the **Test Suites** module and select the **Execute TestSuite** tab
7. Select a **Platform** and link it with the Test Suite
8. Click on **Assign Agent** icon under **Automation** column

9. Select an Agent on which you want to execute your Selenium Test Case
10. Click the **Run Now** button to run the Selenium Test Case immediately, or else, select the Date and Time to schedule the execution on future date

How it works?

QMetry ROBOT Launcher will loop through all the Test Cases under a QMetry Test Suite and launch all ROBOT Test Suites specified as Test Script Name one by one as they appeared in QMetry Test Suite. Once the Test Case execution is completed, ROBOT Framework will send an “End Test” event to QMetry ROBOT Launcher. QMetry ROBOT Launcher compares ROBOT Test Case Name with QMetry Test Case Name and if match found, then it will update the Test Case Status in QMetry based on status returned by ROBOT Framework.

At the end of the whole test, QMetry ROBOT Launcher will attach the logs file generated by ROBOT Framework with QMetry Test Case Execution. Please note that, as QMetry Launcher executes whole ROBOT Test Suite, log files attached with QMetry Test Case Execution also contains test logs from other executions too and you may find same log files attached with the multiple QMetry Test Case executions. To avoid this, you can set property “qmetry.automation.server.path” to some shared location on your network and at the end of ROBOT Test, QMetry Adapter will copy all the log files to this location and attach the URL of this location with QMetry Test Case execution.