



# QTP Open Source Test Automation Framework FAQ

Version 1.0

April 2009

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## 1. Introduction

### 1.1. Purpose

The purpose of this document is to answer frequently asked questions about the (HP QuickTest Professional) Open Source Test Automation Framework.

## 2. Frequently Asked Questions

### 2.1. Open Source Test Automation

The table below lists FAQs with respective answers related to the QTP Open Source Test Automation Framework.

1.	<p>Is the Open Source Test Automation Framework application dependent?  <b>No, it is not application dependent because the Open Source Test Automation Framework is designed to perform operations for all standard object types (WebEdit, Weblist, Webcheckbox, etc.) of technology commonly used to build a Web application.</b></p>
2.	<p>Is Open Source Test Automation Framework technology dependent?  <b>Yes, it is technology dependent.</b></p>
3.	<p>What are the benefits of using this framework?  <b>The Open Source Test Automation Framework provides the following benefits:</b></p> <ol style="list-style-type: none"> <li>1. <b>The testers can automate test cases without the help of programmers or programming background.</b></li> <li>2. <b>They can run automated test cases more reliably.</b></li> <li>3. <b>The Open Source Test Automation Framework reduces maintenance and increases productivity.</b></li> <li>4. <b>Keywords are application-independent.</b></li> </ol>
4.	<p>Is it possible to use the Open Source Test Automation Framework on two different technologies? If yes, then what is the procedure for doing so?  <b>Yes, it is possible to use the Open Source Test Automation Framework on two different technologies.</b>  <b>The procedure is:</b></p> <ol style="list-style-type: none"> <li>1. <b>If there are common variable declarations in two framework files, remove them from one of the frameworks.</b></li> <li>2. <b>Use different Run_options such as "w" for Windows "r" for Web in the first column of the keyword script.</b></li> <li>3. <b>Replace the "A" piece of code with the "B" piece of code in one of the frameworks where all the variables are declared.</b>  <b>A:</b>  <pre style="margin-left: 40px;">If (LCase(DataTable.Value(1,dtGlobalSheet)) = "r") Then     Call Keyword_Web() End If</pre> <b>B:</b>  <pre style="margin-left: 40px;">If (LCase(DataTable.Value(1,dtGlobalSheet)) = "r") Then     Call Keyword_Web() Else If (LCase(DataTable.Value(1,dtGlobalSheet)) = "w") Then     Call Keyword_Window() End If</pre> </li> <li>4. <b>Associate the QTP Open Source Test Automation Framework for two different technologies to QTP.</b></li> </ol>
5.	<p>Does the Open Source Test Automation Framework support a data-driven framework?  <b>Yes.</b></p>

6.	<p>Does it support a function modular framework? <b>Yes.</b></p>
7.	<p>What are the prerequisites to using the Open Source Test Automation Framework? <b>The prerequisites to using the Open Source Test Automation Framework are:</b></p> <ol style="list-style-type: none"> <li>1. Knowledge of the keywords.</li> <li>2. Basic knowledge of HP QuickTest Professional (QTP).</li> <li>3. All the necessary files should be associated.</li> </ol>
8.	<p>Does the Open Source Test Automation Framework support all versions of QTP? <b>Yes. For more information please refer to the support matrix document.</b></p>
9.	<p>What are the various components of the Open Source Test Automation Framework? <b>The components include: Driver script, function library, common function, object repository, keywords, external test data, and global variables.</b></p>
10.	<p>What are the different components needed to run a QTP script using the Open Source Test Automation Framework? <b>Include the Open Source Test Automation Framework in QTP (Test Settings -&gt; Resources) and then include the statement mentioned below to call the Open Source Test Automation Framework:</b> <b>Call Keyword_driver</b> <b>Include the keyword script in the Global Datasheet and test data(if used). The keyword script can also be imported at runtime.</b> <b>Include the repository file and then run the script.</b></p>
11.	<p>Does the Open Source Test Automation Framework support external functions? <b>Yes, it supports external functions.</b></p>
12.	<p>Does the Open Source Test Automation Framework support using an xml file for test data? <b>Yes.</b></p>
13.	<p>How does the Open Source Test Automation Framework work? <b>Using the Open Source Test Automation Framework, testers can develop test cases using Microsoft Excel and the available list of keywords. When the test is executed, the framework processes the Excel workbook and calls the functions associated with the keywords entered in the Excel spreadsheet. These keyword functions in turn perform specific actions against the Application Under Test (AUT).</b></p>
14.	<p>What are the benefits of the Open Source Test Automation Framework? <b>Reusability, greater test productivity, optimum utilization of the tool through keyword support, and minimum effort needed to build scripts.</b></p>
15.	<p>What are the features of the Open Source Test Automation Framework? The following are the features of the Open Source Test Automation Framework: <b>Performing operations and verifications on the objects</b> <b>Usage of variables</b> <b>Conditional checking</b> <b>Data-driven testing</b></p>

	<p><b>Reports</b>  <b>Exception handling</b>  <b>Handling Web objects</b>  <b>For more information, please refer to the Support Matrix documents.</b></p>
16.	<p>How reliable is this framework as compared to a linear script?  <b>The framework provides standardized, tested code. It is typically much more reliable and more thoroughly tested than recorded scripts. It also provides uniformity across automation scripts and ensures standard procedures are followed for coding.</b></p>
17.	<p>What is the advantage of building scripts using the Open Source Test Automation Framework over writing code in QTP expert view.?  <b>Being a keyword-driven framework, one does not need to know programming in VBS. Testers can develop scripts without learning the underlying automation tool. The tests are easier to understand, easier to maintain, and provide maximum code reuse.</b></p>
18.	<p>How do I decide whether I can automate an application using the Open Source Test Automation Framework?  <b>Currently the QTP Open Source Test Automation Framework supports automation of web and windows based applications and to verify the object type that are supported by the QTP Open Source Test Automation Framework please refer to support matrix.</b></p>
19.	<p>What is the Open Source Test Automation Framework?  <b>This framework is built for several of the leading test automation tools. It allows scripting of test cases using set of keywords provided as part of framework. This is often referred to as keyword-driven testing or action-based testing.</b></p>

## 2.2. Keyword Scripts

The table below lists the FAQs with respective answers related to keyword scripts.

1.	<p>What are the various keywords available in the Open Source Test Automation Framework?  <b>Refer to the Keyword Reference Document for the list of keywords that are available in the Open Source Test Automation Framework. The document covers all the keywords along with their syntax and usage.</b></p>
2.	<p>Does the Callfunction keyword support variables as arguments?  <b>Yes. Please refer to the Framework Extensibility document for more information.</b></p>
3.	<p>Does the function return values?  <b>Yes, the function can return values. Please refer to the Framework Extensibility document for more information.</b></p>
4.	<p>Does the Open Source Test Automation Framework support a mechanism for providing multiple sets of data to the same parameter?  <b>Yes. Use the Loop keyword.</b></p>
5.	<p>Does the Open Source Test Automation Framework support if-else loops?  <b>Yes. Use the Condition keyword.</b></p>

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6.	Why doesn't the browser close even after using the 'Close' keyword? <b>Before closing the browser, attach the context first.</b>
7.	Does the Open Source Test Automation Framework support reusable actions? <b>Yes. Please refer to the Keyword Reference document for the keyword to be used.</b>

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