



# Silk Test 17.0

Release Notes

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# Silk Test 17.0 Release Notes

This file contains important information that might not appear in the Help. Read this file in its entirety.

For the latest version of this document, see [Release Notes](#).

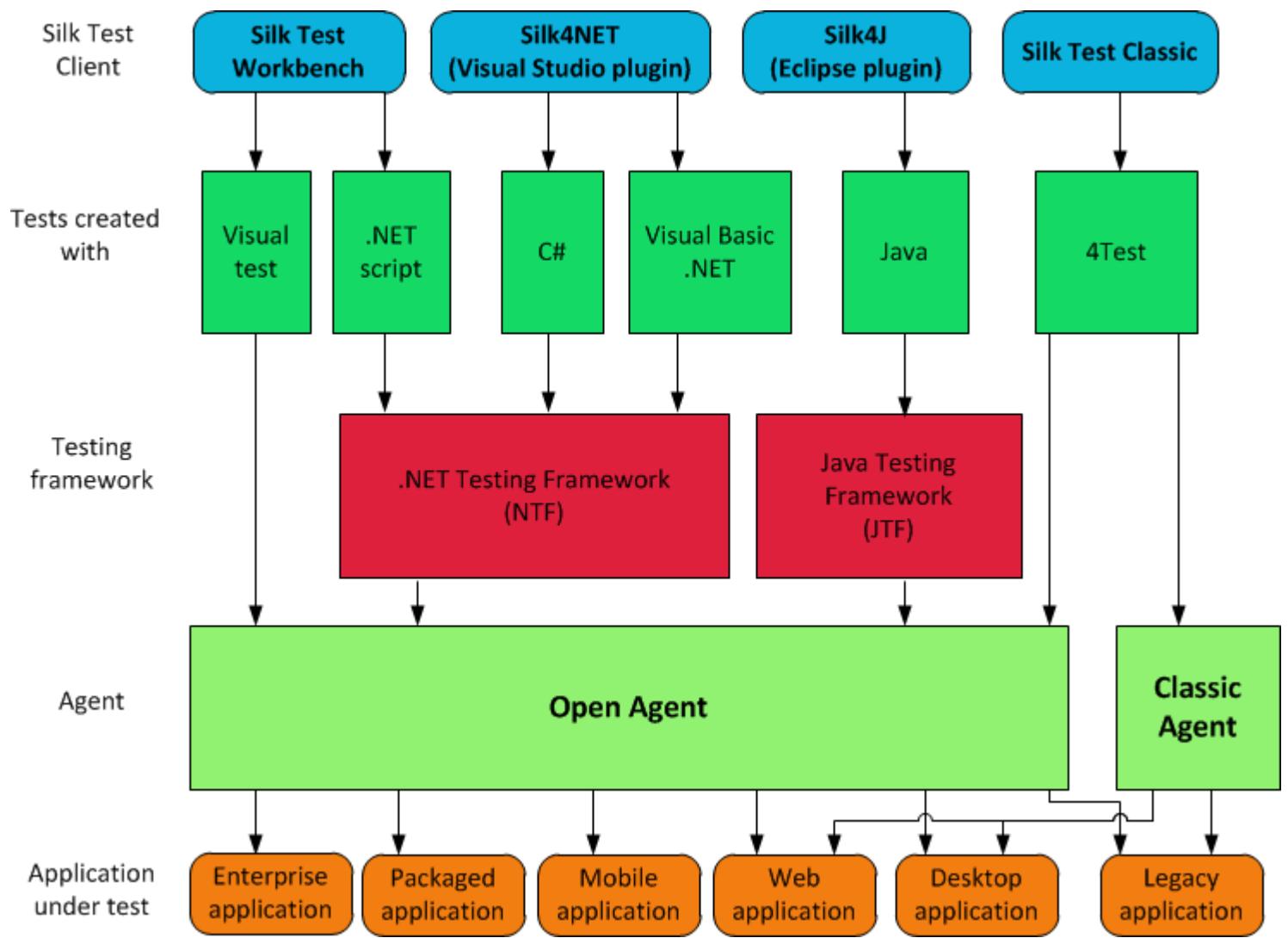
Navigate to [supportline.microfocus.com](http://supportline.microfocus.com) for further assistance from Customer Care.

# Silk Test Product Suite

Silk Test is an automated testing tool for fast and reliable functional and regression testing. Silk Test helps development teams, quality teams, and business analysts to deliver software faster, and with high quality. With Silk Test you can record and replay tests across multiple platforms and devices to ensure that your applications work exactly as intended.

The Silk Test product suite includes the following components:

- Silk Test Workbench – Silk Test Workbench is the quality testing environment that offers .NET scripting for power users and easy to use visual tests to make testing more accessible to a broader audience.
- Silk4NET – The Silk4NET Visual Studio plug-in enables you to create Visual Basic or C# test scripts directly in Visual Studio.
- Silk4J – The Silk4J Eclipse plug-in enables you to create Java-based test scripts directly in your Eclipse environment.
- Silk Test Classic – Silk Test Classic is the Silk Test client that enables you to create scripts based on 4Test.
- Silk Test Agents – The Silk Test agent is the software process that translates the commands in your tests into GUI-specific commands. In other words, the agent drives and monitors the application you are testing. One agent can run locally on the host machine. In a networked environment, any number of agents can run on remote machines.



The sizes of the individual boxes in the image above differ for visualization purposes and do not reflect the included functionality.

The product suite that you install determines which components are available. To install all components, choose the complete install option. To install all components with the exception of Silk Test Classic, choose the standard install option.

# System Requirements and Prerequisites

The following section identifies the system requirements for installing and running Silk Test.

## Hardware Requirements

Micro Focus recommends the following hardware:

System Area	Requirement
Processor	Intel or AMD Dual-Core processor running at 2 GHz.
RAM	1 GB free memory.
Hard disk space	2 GB of free disk space.



**Note:** The recommended hardware reflects the minimum requirements for Silk Test. Depending on the requirements of the application under test or the requirements of your test environment, you might require additional hardware.

When testing on an iOS device, Micro Focus recommends using a device with 1 GB RAM or more.

To test a web application on Apple Safari or a mobile application on iOS, a Mac with the following hardware is required:

System Area	Requirement
Operating system	OS X El Capitan 10.11.3 or later.
Hard disk space	1 GB of free disk space.

## Software Requirements

To install and execute Silk Test, the following software needs to be installed:

- Microsoft .NET Framework 4.6 (Full setup)
- [Windows Update KB2999226 for Universal C RunTime in Windows](#)

# Installation Instructions

For information about installation and licensing issues, refer to the [\*Silk Test Installation Guide\*](#).

# What's New in Silk Test

Silk Test supports the following new features:

## Mobile Testing

Mobile is one of the emerging trends in today's market. Over the last couple of years, mobile application development has gone through several stages and now becomes a standard. Testing principles which have successfully been used a long time for desktop and web application will now also have to be applied for testing mobile applications. Silk Test 17.0 now supports all major mobile platforms, enabling you to use Silk Test as your testing solution, regardless of the type of application that you need to test. You can standardize on Silk Test as your single solution, rather than having multiple testing tools for the different applications.

Silk Test 17.0 provides advanced support for Android-based applications and iOS-based applications, including Android Emulators and iOS Simulators.



**Note:** To test native mobile applications with Silk Test, you require a native mobile license. For additional information, see *Licensing Information*.

## Mobile Device Lab

Securely share devices across an organization to leverage all devices regardless of their actual physical location. Silk Test accesses any remote device as if it is locally connected. This gives customers the ability to centralize device management and to globally access the devices within the secure private network of the organization, supporting "follow the sun" testing needs of globally active companies.

## State of the Art Cross-Browser Testing

Silk Test 17.0 adds support for Apple Safari on a Mac, enabling you to easily ensure that your web applications behave as expected on the most popular platforms. You can either use your existing browser scripts and run them without modifications on Apple Safari or just can simply create new scripts within minutes, with the new recording capabilities for Apple Safari.

As many web applications are taking care of specific features of a browser, Silk Test 17.0 provides recording support for Mozilla Firefox, enabling you to easily create scripts for Mozilla Firefox.

In addition to those two main features, Silk Test 17.0 has unified its advanced synchronization mechanism across all supported browsers, ensuring similar results regardless of the browser that you use.

## Usability Enhancements

This section lists usability enhancements that have been made in Silk Test 17.0.

### Viewing the playback status of a test

Do you want to test your application under test on a remote machine, for example a Mac, or on a mobile device, and still be able to see what is happening during the test? You can now view the status of the playback on a remote machine or a mobile device in the **Playback Status** dialog, which displays on the local machine from which you are running the test.

## **Unified browser synchronization**

All supported browsers now use unified advanced synchronization mechanisms for web application testing, providing similar test results across all the supported browsers.

## **Inserting invisible controls into a visual test**

Does your application under test include controls that you cannot access during the recording of a visual test, because the controls are invisible? You can now easily insert the locators of such controls, for example containers or frames, from your application under test into an existing visual test by using the **Identify Object** dialog box.

## **Viewing the status of the latest test runs**

When reviewing a set of test results, seeing at one glance what the status of the latest run was can save you a lot of time and effort. In the **Asset Browser** in Silk Test Workbench, any results now display whether the latest test run passed or failed. Additionally, the **Run Details** dialog box displays whether each test run passed or failed.

## **Specify maximum number of asset versions**

To limit the storage requirements of assets, including test results, you can now specify the maximum number of versions of an asset to keep.

## **Tracing errors in embedded tests**

When executing a visual test that calls other visual tests or VB .NET scripts, an error might occur in one of the called tests. The result file of the executed test now recursively includes the test steps or lines of code in all called visual tests and VB .NET scripts in which the error occurred.

# **API Enhancements**

This section lists API enhancements that have been made in Silk Test 17.0.

## **Handling JavaScript alerts**

You can now use the following new methods of the `BrowserWindow` class to handle any JavaScript alerts that might appear during the execution of a test:

- `AcceptAlert`
- `DismissAlert`
- `GetAlertText`
- `IsAlertPresent`

## **Retrieving a CSS style**

You can now use the new `GetCssStyle` method of the `DomElement` class to retrieve a computed CSS style.

## **Using a case-sensitive pattern in the MatchStr function**

The `MatchStr` method in Silk Test Classic now supports an additional parameter which specifies whether the pattern matching is case sensitive or not.

## **Scrolling a browser control into view**

When trying to perform an image verification, or whenever you need a control to be visible on the screen, for example on a screenshot, you can now scroll the control into view by using the `ScrollIntoView` method of the `DomElement` class.

## **Additional methods supported for Microsoft Edge**

In addition to the methods supported with Silk Test 16.5, Silk Test now supports the following methods for Microsoft Edge:

- `MouseMove`
- `PressMouse`
- `ReleaseMouse`
- For lists in a web application that support selecting multiple list items, Silk Test now supports the methods `Select` and `MultiSelect`.

## **Changes to methods in the `MobileObject` class**

To enable the testing of native mobile applications, the following methods of the `MobileObject` class were changed:

- `PinchIn`. The step parameter was removed and the method now accepts only the percentage of the diagonal length of the object as an optional parameter.
- `PinchOut`. The step parameter was removed and the method now accepts only the percentage of the diagonal length of the object as an optional parameter.
- `Drag`. The steps parameter was removed and the method now accepts only the start and end points of the drag as parameters.
- `DragTo`. The steps parameter was removed and the method now accepts only the destination of the drag as a parameter.
- `DragToObject`. This method was deprecated with Silk Test 17.0. Use the `DragTo` method instead.

## **Image recognition support on all browsers**

The `ImageClick` method is now supported on all browsers, including mobile browsers.

## **Specifying the timeout for an image click**

The `ImageClick` method now includes an optional timeout parameter, allowing you to specify how long to wait for the image to appear.

# **Technology Updates**

This section lists the significant technology updates for Silk Test 17.0.

## **New Mozilla Firefox Versions**

In addition to the versions of Mozilla Firefox, which have been tested with the previous version of Silk Test, Silk Test has been tested for recording and replay with the following new versions of Mozilla Firefox:

- Mozilla Firefox 42
- Mozilla Firefox 43
- Mozilla Firefox 44
- Mozilla Firefox 45
- Mozilla Firefox 46



**Note:** This list includes the new versions of Mozilla Firefox that have been tested with Silk Test 17.0 until the release date of Silk Test 17.0. Silk Test 17.0 should be able to support newer versions of Mozilla Firefox, even if these versions have been released after the release date of Silk Test 17.0.

## Google Chrome Support

In addition to the versions of Google Chrome, which have been tested with the previous version of Silk Test, Silk Test playback has now been tested with the following versions of Google Chrome:

- Google Chrome 46
- Google Chrome 47
- Google Chrome 48
- Google Chrome 49
- Google Chrome 50



**Note:** This list includes the versions of Google Chrome that have been tested with Silk Test 17.0 until the release date of Silk Test 17.0. Silk Test 17.0 should be able to support newer versions of Google Chrome, even if these versions have been released after the release date of Silk Test 17.0.

## Android Support

In addition to the Android versions, which have been tested with the previous version of Silk Test, Silk Test now includes support for mobile web applications and native mobile applications for the following operating systems:

- Android 4.4
- Android 5
- Android 5.1
- Android 6.0

## iOS Support

In addition to the iOS versions, which have been tested with the previous version of Silk Test, Silk Test now includes support for mobile web applications and native mobile applications for the following operating systems:

- iOS 8.1
- iOS 8.2
- iOS 8.3
- iOS 8.4
- iOS 9.0
- iOS 9.1
- iOS 9.2
- iOS 9.3

## Apache Flex Support

Silk Test now supports applications with Apache Flex 4.14.1.

# Known Issues

Depending on the Silk Test client that you are using, click on the corresponding link for a list of the known issues for the client and their resolutions:

<b>Silk Test Workbench</b>	<i><a href="#">Known Issues for Silk Test Workbench</a></i>
<b>Silk4J</b>	<i><a href="#">Known Issues for Silk4J</a></i>
<b>Silk4NET</b>	<i><a href="#">Known Issues for Silk4NET</a></i>
<b>Silk Test Classic</b>	<i><a href="#">Known Issues for Silk Test Classic</a></i>

# Resolved Issues

The following issues have been resolved:

Issue #	Description
RPI 604098	Silk Test Classic: Issue with menu separators in the <b>Tools</b> menu when using the Classic Agent.
RPI 609776	User Voice: <b>Find</b> dialog wrap search reenables itself.
RPI 609869	User Voice: Provide a <code>MatchStr</code> -equivalent which is case-sensitive.
RPI 614354	When using Performance Explorer on a Japanese Microsoft Windows 7 system, <code>textCapture</code> might not work for a <code>WPFLListView</code> .
RPI 615399	Microsoft Edge: Silk Test does not replay <code>select</code> and <code>multiSelect</code> on a Japanese Microsoft Windows 10 system.
RPI 617600	Silk Test Workbench: Error when executing a <code>Click</code> on an <code>OracleFormsLabel</code> object.
RPI 618784	Silk4J: Cannot record a keyword.
RPI 619693	Silk Test Workbench is using a port that is used by another application.
RPI 1098623	Function information in TrueLog shows inaccurate time.
RPI 1100680	Internet Explorer stops working when you are rendering a PDF document within an applet.
RPI 1100796	Silk4NET: Open Agent communication thread is paused. No agent requests possible.
RPI 1100857	Silk Test Workbench: Cannot associate verification failures registered in the results of a called VB .NET script with the appropriate step in the calling visual test.
RPI 1101247	Silk Test Workbench: Cannot specify a maximum number of asset versions.
RPI 1101447	Silk Test Workbench: Error when opening or deleting an asset.
RPI 1101726	Mobile web testing: Popup dialog box is not displayed.
RPI 1101767	Silk4NET: The Open Agent might stop working when executing <code>Connect</code> multiple times.
RPI 1101781	Silk4J: Pre-populated drop downs on a website do not get populated while JavaScript injection is enabled.
RPI 1101822	Silk Test Classic might stop working on Microsoft Windows 10 because of a memory leak.
RPI 1101943	Silk Test Classic might stop working when implementing a tag as a method.
RPI 1102110	Silk Test Classic might stop working when creating a new test frame.
RPI 1102130	The <code>SYS_VerifyText</code> method returns incorrect information.
RPI 1102202	Internet Explorer 11 might become unresponsive during replay after applying the Microsoft Security Patch KB3093983.
RPI 1102238	Error when uploading a keyword library to an older version of Silk Central.
RPI 1102301	Silk Test Classic: Not all keywords are uploaded when uploading a keyword library to Silk Central.
RPI 1102325	Silk Test Workbench might stop working when opening the <b>Asset Browser</b> .
RPI 1102357	The execution of keyword-driven tests is delayed when the number of files in a project increases.
RPI 1102383	Silk Test Workbench: The <b>Result Details</b> page might show an incorrect asset in the 'Name' column.
RPI 1102420	Silk Test Workbench: Memory leak when working with image verifications.

<b>Issue #</b>	<b>Description</b>
RPI 1102498	Silk Test Workbench: Search functionality missing in assets with Silk Test 16.5.
RPI 1102505	Silk Test Classic might stop working when moving files in the project tree.
RPI 1102586	Silk Test Classic: Unknown error when executing TextClick.
RPI 1102632	DOM attributes are not refreshed in Silk Test Workbench when the attributes are updated by the application under test.
RPI 1102930	Silk Test Workbench: The selected image asset for an ImageClick is cleared when saving a visual test.
RPI 1103127	Silk Test Classic: Partner.exe might stop working when tests are executed from Silk Central.
RPI 1103259	Silk Test loses recognition of Apple Safari dom elements if a blur event is invoked.
RPI 1103289	ImageExists does not work correctly.
RPI 1103414	Silk Test Workbench: No keywords are available in list after exporting to Oracle 11g database.
RPI 1103459	Unable to start a second Java application using Runtime.getRuntime.exec(...).
RPI 1103526	Silk Test Workbench returns error 3: DSN, username, or password incorrect.
RPI 1103765	The TextClick function might cause Silk Test to stop working.
RPI 1103832	Silk Test 16.5 cannot properly record a web page on Internet Explorer 11.
RPI 1103869	Silk Test Workbench: Keyword execution from Silk Central might not work with Oracle data base.
RPI 1104100	Silk Test Workbench: Timeout does not work for ImageClick within a visual test.

# Contacting Micro Focus

Micro Focus is committed to providing world-class technical support and consulting services. Micro Focus provides worldwide support, delivering timely, reliable service to ensure every customer's business success.

All customers who are under a maintenance and support contract, as well as prospective customers who are evaluating products, are eligible for customer support. Our highly trained staff respond to your requests as quickly and professionally as possible.

Visit <http://supportline.microfocus.com/assistedservices.asp> to communicate directly with Micro Focus SupportLine to resolve your issues, or email supportline@microfocus.com.

Visit Micro Focus SupportLine at <http://supportline.microfocus.com> for up-to-date support news and access to other support information. First time users may be required to register to the site.

## Information Needed by Micro Focus SupportLine

When contacting Micro Focus SupportLine, please include the following information if possible. The more information you can give, the better Micro Focus SupportLine can help you.

- The name and version number of all products that you think might be causing an issue.
- Your computer make and model.
- System information such as operating system name and version, processors, and memory details.
- Any detailed description of the issue, including steps to reproduce the issue.
- Exact wording of any error messages involved.
- Your serial number.

To find out these numbers, look in the subject line and body of your Electronic Product Delivery Notice email that you received from Micro Focus.

# Silk Test Licensing

This section describes how to obtain a license policy for Silk Test and how to install Silk Meter. You must have administrator privileges to install Silk Meter.



**Note:** Silk Test requires Silk Meter version 2008 or later as well as a Silk Test license policy.

Install Silk Meter once per license server. If you have multiple license servers, you need multiple license policy files, each one tied to a particular license server. A single Silk Meter license server can administer license policies for multiple products.

If you have received a Silk Test license policy, install the license policy on your license server. If you have not received a license policy, generate a license policy.

## Licensing Information

Unless you are using a trial version, Silk Test requires a license.



**Note:** A Silk Test license is bound to a specific version of Silk Test. For example, Silk Test 17.0 requires a Silk Test 17.0 license.

The licensing model is based on the client that you are using and the applications that you want to be able to test. The available licensing modes support the following application types:

Licensing Mode	Application Type
Mobile Native	<ul style="list-style-type: none"><li>Mobile web applications.<ul style="list-style-type: none"><li>Android</li><li>iOS</li></ul></li><li>Native mobile applications.<ul style="list-style-type: none"><li>Android</li><li>iOS</li></ul></li></ul>
Full	<ul style="list-style-type: none"><li>Web applications, including the following:<ul style="list-style-type: none"><li>Apache Flex</li><li>Java-Applets</li></ul></li><li>Mobile web applications.<ul style="list-style-type: none"><li>Android</li><li>iOS</li></ul></li><li>Apache Flex</li><li>Java AWT/Swing, including Oracle Forms</li><li>Java SWT and Eclipse RCP</li><li>.NET, including Windows Forms and Windows Presentation Foundation (WPF)</li><li>Rumba</li><li>Windows API-Based</li></ul>
Premium	All application types that are supported with a <i>Full</i> license, plus SAP applications.



**Note:** To upgrade your license to a Full license, visit [www.borland.com](http://www.borland.com).

Licensing Mode	Application Type
	 <b>Note:</b> To upgrade your license to a Premium license, visit <a href="http://www.borland.com">www.borland.com</a> .
Mobile Native Add-On	In addition to the technologies supported with a Full or Premium license, the mobile native add-on license offers support for testing native mobile applications on Android and iOS.

# Tested Software

This section lists the software with which Silk Test 17.0 has been tested.

## Operating Systems

Silk Test 17.0 has been tested with the following operating systems:

- Microsoft Windows Vista SP2
- Microsoft Windows Server 2008
- Microsoft Windows Server 2008 R2
- Microsoft Windows 7 SP1
- Microsoft Windows 8 (No Windows Store apps)
- Microsoft Windows 8.1 (No Windows Store apps)
- Microsoft Windows Server 2012
- Microsoft Windows Server 2012 R2
- Microsoft Windows 10 (No Universal Windows Platform apps)

## Web Applications

For the Open Agent, Silk Test 17.0 has been tested with the following browsers and web technologies:

Technology Type	Tested Version
Mozilla Firefox (32bit)	41, 42, 43, 44, 45, 46**
Mozilla Firefox (32bit, playback only)	31 (ESR*), 38 (ESR*), 39, 40
Google Chrome (playback only)	36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50**
Chrome for Android	
Original Stock Android Browser (AOSP)	
Apple Safari on iOS	
Apple Safari on Mac	
Mac OS (Used for testing Apple Safari or iOS)	10.11.3
Internet Explorer	8, 9, 10, 11
Microsoft Edge	RTM build (10240)
Android	4.4, 5, 5.1, 6.0
iOS	8.1, 8.2, 8.3, 8.4, 9.0, 9.1, 9.2, 9.3
Silverlight	3 (Silverlight Runtime 4), 4 (Silverlight Runtime 4 and Silverlight Runtime 5)



**Note:** Microsoft has committed to support Silverlight 5.0 until 2021, but has made no concrete announcement about the future roadmap of Silverlight. Whilst we endeavour to maintain the highest levels of support for our customers, we are occasionally limited in the support we can obtain from Microsoft on this platform.

Technology Type	Tested Version
Apache Flex	Silk Test 17.0 has been tested with Apache Flex version 3.5 to Apache Flex version 4.14.1, using all supported browsers and Adobe AIR 2.0 or later (built with Apache Flex 4.x)
	 <b>Note:</b> Silk Test does not support testing child domain technologies, including Apache Flex, for Web applications running in Google Chrome.
	Silk Test supports Adobe Flash Player 10 or later.
Java Applets	Silk Test supports Applets for Internet Explorer and for versions of Mozilla Firefox that are prior to or equal to Mozilla Firefox 40.
HTML5	
Oracle Forms	10g and 11g for Internet Explorer.

\* Extended Support Release.

\*\* This list includes the browser versions that have been tested with Silk Test 17.0 until the release date of Silk Test 17.0. Nevertheless, Silk Test 17.0 should be able to support the newest versions of these browsers, as soon as they are available.

## Native Mobile Applications

For the Open Agent, Silk Test 17.0 has been tested with the following mobile operating systems:

Technology Type	Tested Version
Mac OS (Used for testing Apple Safari or iOS)	10.11.3
Android	4.4, 5, 5.1, 6.0
iOS	8.1, 8.2, 8.3, 8.4, 9.0, 9.1, 9.2

## Desktop Applications

For the Open Agent, Silk Test 17.0 has been tested with desktop applications that are developed in one of the following technologies:

Technology Type	Tested Version
Java AWT/Swing (including Java Foundation Classes)	Java 1.6, Java 1.7, Java 1.8
Java SWT	Silk Test 17.0 has been tested with Java SWT version 3.2 or later. Silk Test supports standalone and Rich Client Platform (RCP) applications. SWT standalone applications executed as an applet in the browser are not supported.
SAP*	SAPGUI client 7.10, SAPGUI client 7.20, SAPGUI client 7.30, SAPGUI client 7.40
Rumba	8.1, 8.2, 8.3, 9.0, 9.1, 9.2, 9.3, 9.4
Win 32	any
WinForms	.NET 3.0, 3.5, 3.5 SP1, 4.0, 4.5, 4.6
WPF	.NET 3.5 SP1, 4.0, 4.5, 4.6

\* To avoid issues when testing SAP applications, Micro Focus recommends installing the latest patch set.

## Silk Test Workbench

Silk Test 17.0 has been tested with the following databases for Silk Test Workbench asset storage:

- Microsoft SQL Server 2008 (SP2) + Express
- Microsoft SQL Server 2012
- Microsoft SQL Server 2012 SP1
- Microsoft SQL Server 2014
- Oracle 11.1.



**Note:** The Oracle 11 ODBC driver needs to be at least at patch level 4 (11.2.0.4.0). Oracle patch 13390677 includes the correct driver. You can download the patch from [Here](#).

- Oracle 11.2



**Note:** The Oracle 11 ODBC driver needs to be at least at patch level 4 (11.2.0.4.0). Oracle patch 13390677 includes the correct driver. You can download the patch from [Here](#).

- Oracle 12.1. Silk Test Workbench supports Oracle 12.1 databases with the AL32UTF8 character encoding.
- Microsoft Access 2000 (as a single-user database)



**Note:** Micro Focus recommends using Microsoft SQL Server.

## Silk4J

You can integrate Silk4J in Eclipse 3.7.2 or later, both 32 and 64 bit. Version 4.5.1 is shipped with Silk Test.

## Silk4NET

You can integrate Silk4NET into the following editions of Microsoft Visual Studio:

Version	Editions
Visual Studio 2010	<ul style="list-style-type: none"><li>• Professional</li><li>• Ultimate</li></ul>
Visual Studio 2012	<ul style="list-style-type: none"><li>• Professional</li><li>• Ultimate</li></ul>
Visual Studio 2013	<ul style="list-style-type: none"><li>• Community</li><li>• Professional</li><li>• Premium</li><li>• Ultimate</li></ul>
Visual Studio 2015	<ul style="list-style-type: none"><li>• Community</li><li>• Professional</li><li>• Enterprise</li></ul>



**Note:** Silk4NET does not support keyword-driven testing in Visual Studio 2010.

## Silk Test Classic

Silk Test Classic's Data Driven Workflow has been tested with:

- Text files and comma separated value files (\*.txt and \*.csv files)
- MS Excel

- MS Access
- MS SQL Server
- Oracle (partial support)
- SyBase SQL Anywhere

Silk Test Classic accesses the preceding databases using ODBC and therefore has been tested with the versions of those databases that have a working ODBC driver.



**Note:** The Silk Test Classic **Select Data Source** dialog box allows you to choose either the Silk DDA Excel or the Segue DDA Excel data source. For new data driven test cases, choose the Silk DDA Excel data source. Choose the Segue DDA Excel data source for backward compatibility. This allows existing .g.t files that reference Segue DDA Excel to continue to work.