MICRO FOCUS

Silk Test 19.0

Release Notes

2018-06-04

Contents

Silk Test 19.0 Release Notes

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

For information about installation and licensing issues, refer to the *Silk Test Installation Guide*.

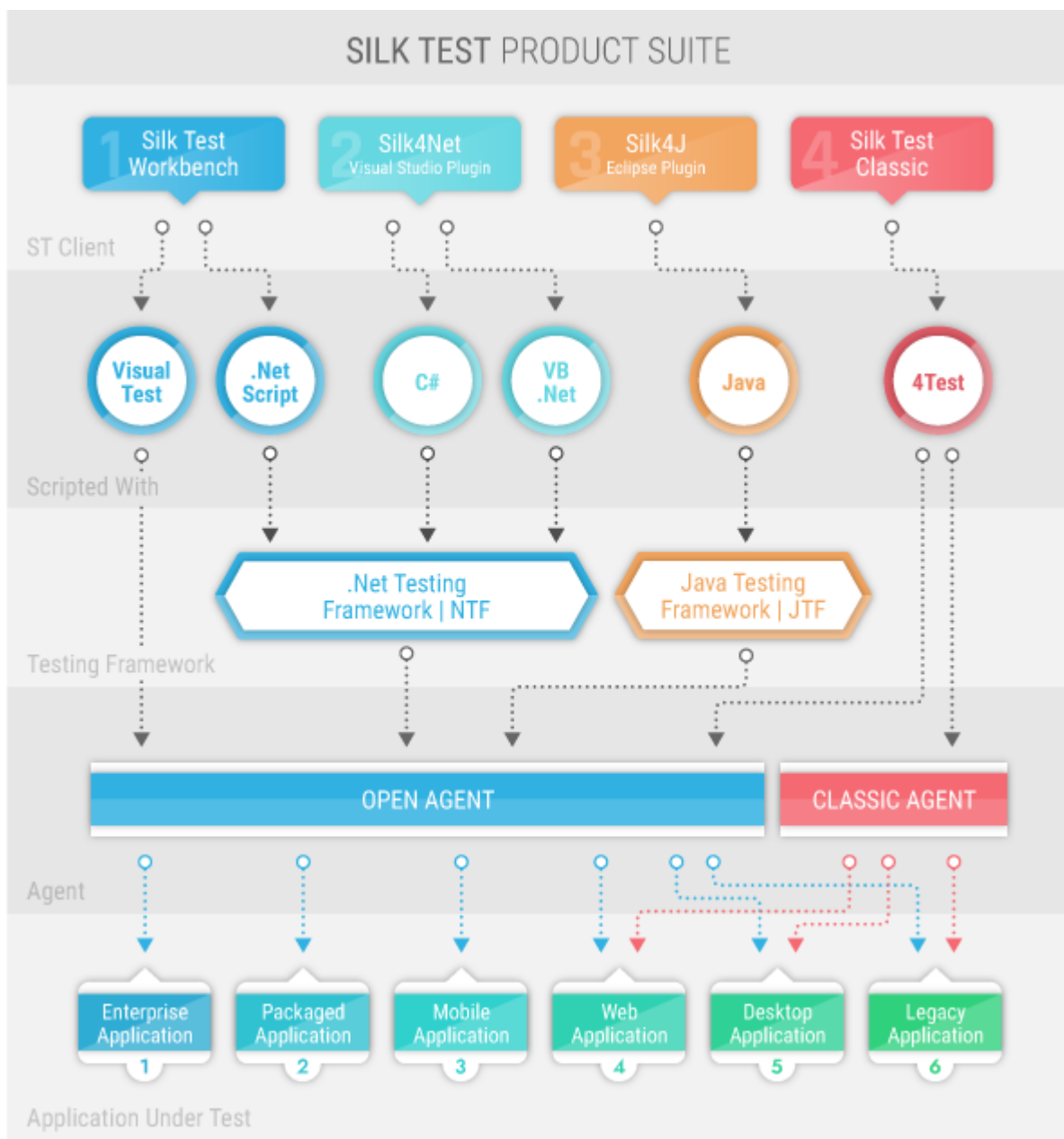For the latest version of this document, see *Release Notes*.

Navigate to *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.

SILK TEST PRODUCT SUITE

Silk Test Workbench — 1

Silk4Net Visual Studio Plugin — 2

Silk4J Eclipse Plugin — 3

Silk Test Classic — 4

ST Client

Visual Test | .Net Script | C# | VB .Net | Java | 4Test

Scripted With

.Net Testing Framework | NTF

Java Testing Framework | JTF

Testing Framework

OPEN AGENT | CLASSIC AGENT

Agent

Enterprise Application 1 | Packaged Application 2 | Mobile Application 3 | Web Application 4 | Desktop Application 5 | Legacy Application 6

Application Under Test

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 3118401 for Universal C RunTime in Windows*

What's New in Silk Test

Silk Test supports the following new features:

Shared Projects in Silk Test Workbench

Silk Test Workbench 19.0 introduces project dependencies to assist you in saving time and effort when handling complex testing requirements.

With this new functionality, Silk Test Workbench provides enhanced support for testing enterprise applications across multiple versions. The new project dependencies also provides enhanced reuse capabilities of existing projects and enable you to easily test multiple hotfixes or other minor versions of your applications.

Cross-Browser Testing on a Mac

You can now record and replay tests for web applications against Mozilla Firefox or Google Chrome on macOS.

Dockerized Testing

Silk Test supports integrated continuous-integration (CI) and continuous-deployment (CD) pipelines by introducing the ability to run your Silk4J tests in Docker.

By introducing this new functionality, Silk Test enables you to include functional testing into your agile CI and CD process. Your functional tests can now be automatically triggered by any CI server, for example Jenkins, Bamboo, Team City, and so on. When using Dockerized testing with Silk Test, you can now easily and time-effectively add and provision new test environments.

Customization of Recording

Creating good identifiers for the items in your application under test is challenging. While Silk Test uses sophisticated strategies to automatically generate the best possible locators and object map entry names during recording, these might not always cover your specific requirements. For example, the generated locator might not include an attribute that you want to be included, and the automatically generated object map entry for a recorded object might be difficult to read or might contain special characters. With Silk Test 19.0, you can edit the locator and the object map entry for web controls directly from the recording UI.

This new functionality is available for all supported desktop and mobile browsers except Internet Explorer.

Usability Enhancements

This section lists usability enhancements that have been made in Silk Test 19.0.

Faster test execution with parallel testing

To enable you to execute more tests faster, parallel testing is now enabled by default for all Silk Test clients.

Capturing Screenshots of Entire Web Pages

In addition to capturing screenshots of the currently visible portion of a web page during testing, Silk Test now offers the ability to take a screenshot of all contents of a web page by using the new method of the `BrowserWindow` class.

Stopping the Open Agent from the command line

You can now use the -shutDown option to stop the Open Agent from the command line.

Disabling iframe and frame support for browser testing

To improve the replay performance of your browser tests, you can now disable the iframe and frame support whenever you are not interested in the content of the iframes and frames in a web application. For example, disabling the iframe support might significantly improve replay performance for web pages with many ads and when testing in a mobile browser. You can disable iframe and frame support for all browsers except Internet Explorer.

Enhanced Support for Testing with Multiple UI Sessions

Instead of using `MicroFocus.SilkTest.MultiSessionLauncher.exe`, you can now directly start the Open Agent from a UI session with the following call:

```
openAgent.exe -infoServicePort=<port>
```

Getting or setting additional options from a visual test

You can now get or set the values of the options under **Tools** > **Options** > **Advanced** from a visual test.

Enhanced Silk Test Workbench database maintenance

While maintenance tasks must be performed on Silk Test Workbench, the administrator can now turn on the maintenance mode and log out non-administrator users from the Silk Test Workbench database. Additionally, all Silk Test Workbench users can now use the **Connected Users** window to see which users are currently connected to the database.

Capturing screenshots for failing verifications

Silk Test Workbench now supports capturing a screenshot in the result file whenever a verification in a visual test or a .NET script fails.

Accessing the definition of a class or method

You can now select **Go to Definition** in the context menu of a VB .NET script in Silk Test Workbench to open the definition of the selected class or method.

Specifying the project into which to import assets

For each source project included in an exported assets ZIP file, you can now specify during import into which target project the assets in the source project should be imported.

API Enhancements

This section lists API enhancements that have been made in Silk Test 19.0.

Support for additional XPath axes

By supporting the XPath axes ancestor, preceding-sibling, and following-sibling, Silk Test now allows locating controls based on the properties of a descendant control or by the properties of a sibling.

Add structure to TrueLogs with sections

When using Silk4J or Silk4NET, you can now add sections to TrueLogs to add structure to complex scripts and to logically divide scripts into smaller named parts.

Check whether a DOM object is focused

You can now use the `IsFocused` property to check whether the specified DOM object is in focus or not.

Mobile Testing Enhancements

Silk Test now supports testing toasts for native mobile applications on Android.

Technology Updates

This section lists the significant technology updates for Silk Test 19.0.

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 now been tested with the following new versions of Mozilla Firefox:

- Mozilla Firefox 57
- Mozilla Firefox 58
- Mozilla Firefox 59
- Mozilla Firefox 60

Note: This list includes the new versions of Mozilla Firefox that have been tested with Silk Test 19.0 until the release date of Silk Test 19.0. Silk Test 19.0 should be able to support newer versions of Mozilla Firefox, even if these versions have been released after the release date of Silk Test 19.0.

New Google Chrome Versions

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

- Google Chrome 63
- Google Chrome 64
- Google Chrome 65
- Google Chrome 66
- Google Chrome 67

Note: This list includes the versions of Google Chrome that have been tested with Silk Test 19.0 until the release date of Silk Test 19.0. Silk Test 19.0 should be able to test with newer versions of Google Chrome, even if these versions have been released after the release date of Silk Test 19.0.

New Microsoft Edge Version

In addition to the versions of Microsoft Edge, which have been tested with the previous version of Silk Test, Silk Test has been tested for recording and replay with Microsoft Edge 42.17134, the Microsoft Edge version for the Windows 10 April 2018 Update.

New Eclipse Version

Silk4J now supports Eclipse Oxygen 3a (4.7.3a).

Java 9 and 10 Support

Silk Test now supports testing applications that are based on Java 9 and Java 10.

Enhanced MFC Support

Silk Test now generates stable locators for Microsoft Foundation Class (MFC) controls.

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:

Silk Test Workbench	*Known Issues for Silk Test Workbench*
Silk4J	*Known Issues for Silk4J*
Silk4NET	*Known Issues for Silk4NET*
Silk Test Classic	*Known Issues for Silk Test Classic*

Resolved Issues and Customer-Driven Enhancements

The following issues have been resolved:

SI #	RPI #	Description
2528817	601893	Proper recognition of MFC controls.
	631241	Silk Test Workbench: Authenticating users from multiple Windows domains does not work correctly.
	631426	Silk Test Workbench stops working when watching local variable.
2831907	623353	Functionality to forcibly log users out of Silk Test Workbench remotely.
2863692	1111842	Silk Test Workbench: Scripts might hang when scheduled from Silk Central.
2877742	1107080	Mozilla Firefox opens windows instead of tabs.
2989928	1108676	Silk Test Workbench is closing browser during cross-browser test with linked visual test.
3141704	631504, 1112848	Silk Test Workbench: Cannot run `smConfig.exe` when installing only Silk Test Workbench by using the Basic setup package.
	631671	Error `Not a JSON Object: null` with Mobile Center.
3122518	1111331	Silk Test Workbench stops working after throwing the error `Error Opening Logging` and Silk Test Workbench.
3127661	1111524	Failure when running Silk Test Classic test cases through Silk Central.
3128898	1111855	Silk Test Workbench: The `ConsoleWindow.TypeKeys`(string) method does not type the expected char.
3130170	1111779	Windows 10: Internet Explorer 11 security dialog blocks Silk Test from resolving the browser window in the base state.
3130961	1111878	Internet Explorer 11 stops working while executing the `BrowserBaseState.Execute` method.
3133635	1112114	Silk Test Workbench uses up a lot of GDI objects.
3133809	1112093	Android: Timeout expired during recording.
3133597	1112108	Silk4NET: Error executing `GetProperties`.
3135490	1112243	The `DomTable.GetCellText` function does not work as expected with Silk Test Workbench 18.5.
3136344	1112330	Cannot detect the `MobileTextField` for input fields on iOS that contain unicode characters in their name.
3136742	1112332	Silk4J 18.5: Parallel testing against Android apps does not work.
3137811	1112429	Silk Test IDE unable to start Open Agent.
3137978	1112626	iOS webview elements not recognized.
3138035	1112449	Reference one project from another in Silk Test Workbench.
3138997	1112549	Web application does not load correctly under Silk Test automation.
3138816	1112563	`No such window` exception when recording and replaying against Microsoft Edge.

SI #	RPI #	Description
3139040	1112590	Silk Test Classic: Timeout error when calling method `FindItem` for `JList`.
3140153	1112653	Web view elements are offset in hybrid iOS applications that are started with `SFSafariController`.
3141798	1112813	Silk Test Classic: The functions `Decrypt` and `Encrypt` do not work with the Classic Agent.
3142583	1112893	Silk Test Workbench: Enable and disable Microsoft Accessibility in visual test.
3143787	1113068	**Open with Silk Test** command does not copy parameters of a combined keyword.
3144390	1113309	Silk Test Workbench: Internet Explorer 11 crashes during startup.
3144636	1113114	Enhance Silk Central configuration for scenarios where credentials are invalid.
3146172	633406	Silk Test Classic stops working after being up for a while.
3146441	1113234	Microsoft Edge closed unexpectedly - NoSuchWindowException.
3146473	1113237	Upgraded Jackson library to version 2.9.5.
3146779	1113263	Reduced start times for the Open Agent.
3147076	1113443	Silk Test Workbench: Problem using **Identify Object** dialog with Microsoft Edge.
3150242	1113728	Make the Silk Test Information Service run without an active network.

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 19.0 requires a Silk Test 19.0 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	- Mobile web applications. - Android - iOS - Native mobile applications. - Android - iOS
Full	- Web applications, including the following: - Apache Flex - Java-Applets - Mobile web applications. - Android - iOS - Apache Flex - Java AWT/Swing, including Oracle Forms - Java SWT and Eclipse RCP .NET, including Windows Forms and Windows Presentation Foundation (WPF) - Rumba - Windows API-Based **Note:** To upgrade your license to a Full license, visit *http://www.microfocus.com*.
Premium	All application types that are supported with a *Full* license, plus SAP applications.

Licensing Mode	Application Type
	Note: To upgrade your license to a Premium license, visit *http://www.microfocus.com*.
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 19.0 has been tested.

Operating Systems

Silk Test 19.0 has been tested with the following operating systems:

- 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)
- Microsoft Windows Server 2016

Web Applications

For the Open Agent, Silk Test 19.0 has been tested with the following browsers and web technologies:

Technology Type	Tested Version
Mozilla Firefox**	41, 42, 43, 44, 45 (ESR*), 46, 47.0.1, 47.0.2, 52 (ESR*)***, 53*** , 54***, 55***, 56***, 57***, 58***, 59***, 60*** **Note:** For compatibility reasons, Silk Test 19.0 does not support Mozilla Firefox 48, 49, 50, and 51.
Google Chrome**	52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67
Chrome for Android	
Original Stock Android Browser (AOSP)	
Apple Safari on iOS	9, 10.1, 11
Apple Safari on Mac	9, 10.1, 11
Mac OS (Used for testing Apple Safari or iOS)	10.11.3, 10.12, 10.13
Internet Explorer	8, 9, 10, 11
Microsoft Edge	Windows 10 Anniversary Update (38.14393), Windows 10 Creators Update (40.15063), Windows 10 Fall Creators Update (41.16299), Windows 10 April 2018 Update (42.17134)
Android	4.4, 5.x, 6.x, 7.x, 8.x
iOS	9.3, 10.x, 11.x
Xcode	Xcode 8.3.x, Xcode 9.x
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

Technology Type	Tested Version
	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.
Apache Flex (Only for Internet Explorer)	Silk Test 19.0 has been tested with Apache Flex version 3.5 to Apache Flex version 4.14.1, and with Adobe AIR 2.0 or later (built with Apache Flex 4.x) Silk Test supports Adobe Flash Player 10 or later.
Java Applets (Only for Internet Explorer)	Silk Test supports Applets for web applications running in Internet Explorer.
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 19.0 until the release date of Silk Test 19.0. Nevertheless, Silk Test 19.0 should be able to support the newest versions of these browsers, as soon as they are available.

*** In comparison to the previous versions of Mozilla Firefox, testing on Mozilla Firefox 52 and later versions includes some additional limitations. For detailed information on the limitations, refer to the documentation of your Silk Test client.

Native Mobile Applications

For the Open Agent, Silk Test 19.0 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, 10.12
Android	4.4, 5.x, 6.x, 7.x, 8.x
iOS	9.3, 10.x, 11.x

Desktop Applications

For the Open Agent, Silk Test 19.0 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 6, Java 7, Java 8, Java 9, Java 10
Java SWT	Java 6, Java 7, Java 8, Java 9, Java 10 Silk Test 19.0 has been tested with Java SWT version 3.2 or later. Silk Test supports standalone and Rich Client Platform (RCP) applications.
SAP*	SAPGUI client 7.10, SAPGUI client 7.20, SAPGUI client 7.30, SAPGUI client 7.40, SAPGUI client 7.50
Rumba	8.1, 8.2, 8.3, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5
MFC	14.11

Technology Type	Tested Version
Visual COBOL	
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 19.0 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
- Microsoft SQL Server 2016
- Microsoft SQL Server 2017
- 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 4.7.3a is shipped with Silk Test.

To work with Silk4J 19.0 or later, Java 8 or later is required to be installed on the system where Silk4J is installed.

Silk4NET

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

Version	Editions
Visual Studio 2012	- Professional - Ultimate
Visual Studio 2013	- Community - Professional - Premium - Ultimate

Version	Editions
Visual Studio 2015	• Community • Professional • Enterprise
Visual Studio 2017	• Community • Professional • Enterprise

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.

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.

⚠ **Important:** Whilst we endeavour to keep pace with new releases and runtime versions of supported software and technology, the information given in this document is limited to what was known and could be tested at the point in time when this version of Silk Test was released. If you have questions about newer releases and versions of supported software or generally about software not mentioned here, please don't hesitate to contact Micro Focus for guidance.