



# Silk Test 20.0

Release Notes

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# Silk Test 20.0 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](#).

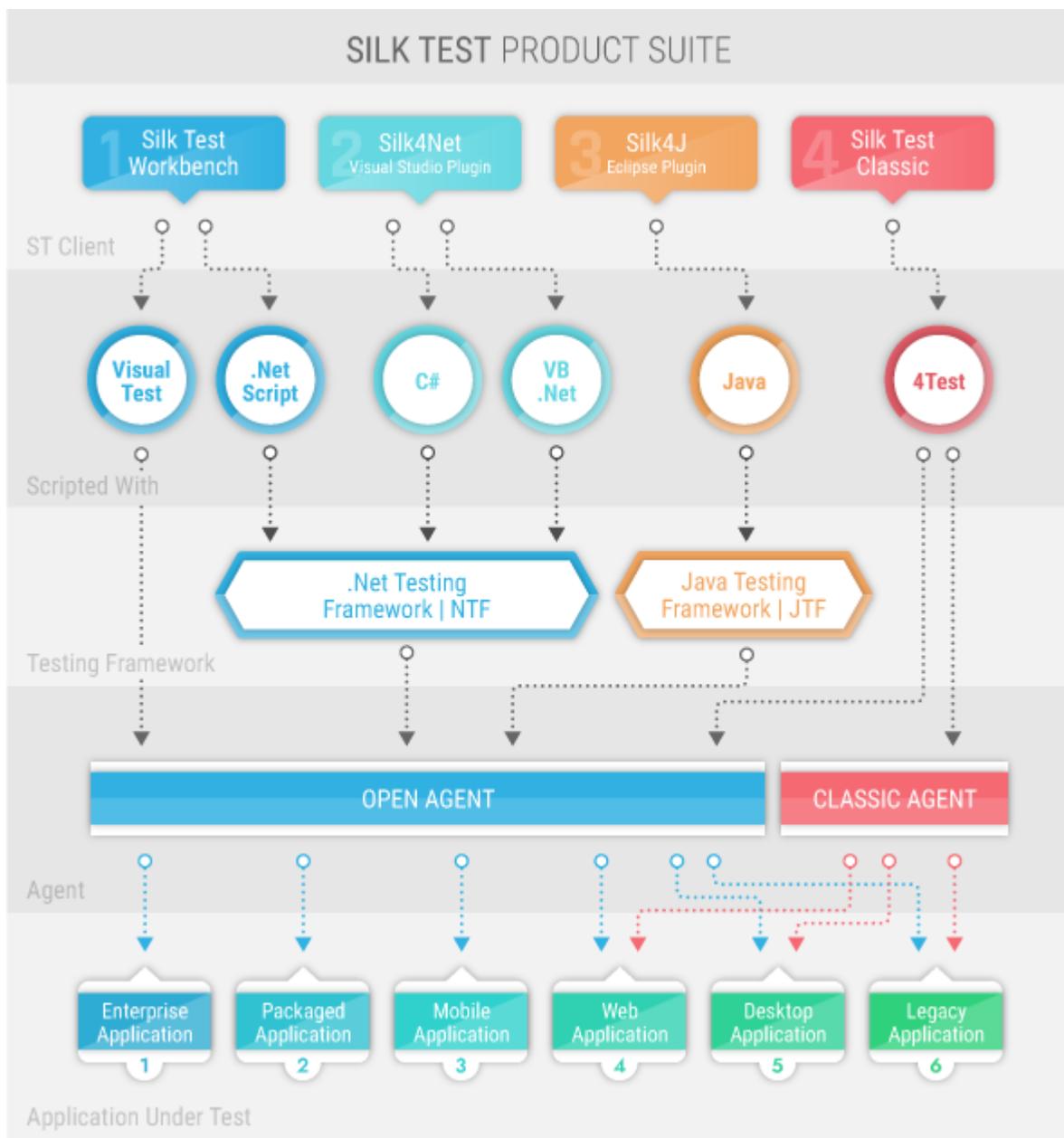
Navigate to [supportline.microfocus.com](http://supportline.microfocus.com) for further assistance from Customer Care.

# 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	4 GB free memory.
Hard disk space	4 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 4.7 or later (Full setup).
- [Windows Update 3118401 for Universal C Runtime in Windows](#).
- Depending on the bitness of the operating system of the machine on which you want to install Silk Test, you require the corresponding 32bit or 64bit Silk Test setup package.

# What's New in Silk Test

Silk Test supports the following new features:

## Service Virtualization

Web applications typically consist of an HTML-based front-end and back-end services, which provide particular functionality like credit-card processing or user-management. The front-end heavily depends on those back-end services, and if the back-end is not accessible or under development, it is hard or even impossible to continue testing the front-end. With the new embedded SV capabilities of Silk4J, the back-end services are no longer a bottleneck for development testers. Instead, you can simply simulate key services and avoid waiting for the back-end to be ready. Using SV with Silk4J is as simple as recording a test case.

## Mobile Center Integration

Silk Test now integrates directly with Mobile Center.

This integration allows you to:

- Leverage centrally managed mobile devices.
- Conveniently reserve mobile devices for testing.
- Effortlessly manage various versions of your mobile apps.
- Easily select the appropriate app during testing.
- Test your mobile apps across many platforms and devices.

## Asset Merging in Silk Test Workbench

With Silk Test Workbench 20.0, you can merge the differences between two different assets of the same type or between two versions of the same asset.

You can merge the differences between assets or asset versions for the following asset types:

- Visual test
- .NET script
- Object map

## Support for Universal Windows Platform Apps

Silk Test 20.0 supports UWP apps on the following operating systems:

- Microsoft Windows 10
- Microsoft Windows Server 2019

## Usability Enhancements

This section lists usability enhancements that have been made in Silk Test 20.0.

## Easily select mobile applications for testing

You can now easily select mobile applications from the UI, including the following:

- Mobile applications that are already installed on the selected mobile device.
- Mobile applications that are available in Mobile Center.
- Mobile applications from your network. Silk Test will install the selected application on the selected mobile device.

## Performance Improvement - Classic Agent Disabled By Default

To improve the overall Silk Test performance, the Classic Agent is now disabled by default when installing Silk Test Classic.

If you have no legacy tests that are using the Classic Agent, or you are unsure about whether you have such legacy tests, Micro Focus recommends leaving the Classic Agent disabled. However, if required, you can enable the Classic Agent during the setup or through the Silk Test UI.

## Encrypting passwords in the UI

Silk Test now supports encrypting passwords in the UI.

## Support for <datalist> elements in web applications

Silk Test now supports testing <datalist> elements in web applications.

## Handling database limits

To assist in avoiding performance issues, Silk Test Workbench will now inform you if the occupied size of the Silk Test Workbench database exceeds a threshold percentage of the full available size.

## Current user

Silk Test Workbench now provides a new variable for the user that has executed a visual test or a VB .NET script.

## Undo/Redo in visual tests

Silk Test Workbench now supports undoing changes while editing a visual test.

## Generating results for JUnit

To generate Silk Test Workbench results in a format that can be used by JUnit, the STW.EXE command line now allows you to specify the additional parameter `resultformat` with the value `JUnit`.

# API Enhancements

This section lists API enhancements that have been made in Silk Test 20.0.

## Wait until the value of a property is no longer equal to the specified value

You can now use the `WaitForPropertyNotEquals` method to wait until the value of the specified property of a control no longer equals a specified value.

## Wait until a control is visually stable

You can now use the `WaitForScreenshotStable` method to wait until a control no longer visually changes and remains in the same position.

# Technology Updates

This section lists the significant technology updates for Silk Test 20.0.

## 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 64
- Mozilla Firefox 65
- Mozilla Firefox 66



**Note:** This list includes the new versions of Mozilla Firefox that have been tested with Silk Test 20.0 until the release date of Silk Test 20.0. Silk Test 20.0 should be able to support newer versions of Mozilla Firefox, even if these versions have been released after the release date of Silk Test 20.0.

## 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 71
- Google Chrome 72
- Google Chrome 73
- Google Chrome 74



**Note:** This list includes the versions of Google Chrome that have been tested with Silk Test 20.0 until the release date of Silk Test 20.0. Silk Test 20.0 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 20.0.

## Java 12 Support

Silk Test now supports testing applications that are based on Java 12.

## New Microsoft Visual Studio Version

In addition to the editions of Microsoft Visual Studio, which were already tested with previous versions of Silk4NET, you can now integrate Silk4NET into the following editions of Microsoft Visual Studio:

- Microsoft Visual Studio 2019 Community.
- Microsoft Visual Studio 2019 Professional.
- Microsoft Visual Studio 2019 Enterprise.

## New Eclipse Version

Silk4J now supports Eclipse 2019-03 (4.11).

## New Java SWT Versions

Silk Test now supports testing standalone and Rich Client Platform (RCP) applications that are based on Java SWT 4.11.

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

# Resolved Issues and Customer-Driven Enhancements

The following issues have been fixed and the following enhancement requests have been implemented:

SI #	RPI #	Description
2543202	601972	Silk Test Classic: When editing an existing script, autocomplete does not work when there is text on the right hand side of the cursor.
	636752	Internet Explorer might hang-up while recording an Alert dialog.
	636927	Silk Test Classic unexpectedly starts the Open Agent when switching to another project.
2855552	1103755	Silk Test Workbench: When switching the current project, the Asset Browser should show only show the assets of that project.
3101429	1108938	Connecting Silk Test Information Service over HTTPS.
3164551	1114762	Enhancement request: Support for HTML <datalist> tag.
	1114994	SetActive for Putty window might hang with Windows 10.
3169537	1115277	Silk Test Classic: Intermittent failure to recognise an embedded browser.
3173613	1115593	Silk Test Workbench: Unable to upgrade database in Chinese OS.
3175407	1115868	Inconsistent Windows Security dialog recognition.
3175561	1115734	Silk4J: Error using <code>TypeKeys</code> against remote Apple Safari 12 with special characters.
3175727	1115856	Restarting the Open Agent throws an <code>AgentConnectionException</code> .
3178375	1115980	Silk Test Classic: Accessibility not working against embedded Chromium browser.
3178872	1115982	Silk Test Workbench might crash when selecting a visual test step that calls a test script.
3178878	1115986	Silk Test Workbench does not save parameter changes in visual tests.
3179498	1116034	Problems with recorded image clicks.
3180196	1116295	Classic Agent regression - <code>SetText</code> does not input special characters.
3181133	1116150	Enhancement request: Easily migrate Silk Test Workbench database configurations.
3181179	1116164	Silk4NET cannot connect to the Silk Test Information Service.
3181262	1116210	Silk4J: Selenium methods are not working for iOS.
3181523	1116173	Silk Test Workbench: Cannot upload mobile app to remote machine.
3181817	1116199	Silk4NET: The Open Agent cannot find a child control with the Xpath <code>//DomTextField</code> .
3182413	1116632	Silk Test Workbench might stop working while starting up.
3184224	1116385	Silk Test Workbench: A duplicated script does not automatically appear in the <b>Asset Browser</b> .
3185893	1116537	Silk Test Workbench 19.5: Importing a Silk Test Workbench project might fail.
3186336	1116684	Silk4J: The application configuration is not saved in the <code>silk4j.settings</code> file for Maven projects.

SI #	RPI #	Description
3186364	1116637	Silk Test Workbench automatically starts parsing and status is in progress after upgrading.
3186600	1116579	Silk Test Workbench stops working when printing failed visual test results with extended properties enabled.
3186651	1116585	Error when executing a Find with Mozilla Firefox 63 and Silk Test 19.5 HF1.
3187873	1116692	Error when executing ClearCache with Internet Explorer.
3190873	1116932	Silk Test Classic: Error when using multiple tabs in Mozilla Firefox.
3190917	1116971	Silk Test Classic: Exception when clicking on a radio button.

# 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](mailto: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 20.0 requires a Silk Test 20.0 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> <p> <b>Note:</b> To upgrade your license to a Full license, visit <a href="http://www.microfocus.com">http://www.microfocus.com</a>.</p>
Premium	All application types that are supported with a <i>Full</i> license, plus SAP applications.

Licensing Mode	Application Type
	 <b>Note:</b> To upgrade your license to a Premium license, visit <a href="http://www.microfocus.com">http://www.microfocus.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 20.0 has been tested.

## Operating Systems

Silk Test 20.0 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
- Microsoft Windows Server 2016
- Microsoft Windows Server 2019

## Web Applications

For the Open Agent, Silk Test 20.0 has been tested with the following browsers and web technologies:

Technology Type	Tested Version
Mozilla Firefox**	60 (ESR*)***, 61***, 62***, 63***, 64***, 65***, 66***
Google Chrome**	65, 66, 67, 68, 69, 70, 71, 72, 73, 74
Chrome for Android	
Original Stock Android Browser (AOSP)	
Apple Safari on iOS	9, 10.1, 11, 12
Apple Safari on Mac	9, 10.1, 11, 12
Mac OS (Used for testing Apple Safari or iOS)	10.12.6, 10.13, 10.14
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), Windows 10 October 2018 Update (44.17763)
Android	4.4, 5.x, 6.x, 7.x, 8.x, 9.x
iOS	9.3, 10.x, 11.x, 12.x
Xcode	Xcode 9.x, Xcode 10.x
Silverlight	3 (Silverlight Runtime 4), 4 (Silverlight Runtime 4 and Silverlight Runtime 5)  <b>Note:</b> 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

Technology Type	Tested Version
	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 20.0 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 20.0 until the release date of Silk Test 20.0. Nevertheless, Silk Test 20.0 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 20.0 has been tested with the following mobile operating systems:

Technology Type	Tested Version
Mac OS (Used for testing Apple Safari or iOS)	10.12.6, 10.13, 10.14
Android	4.4, 5.x, 6.x, 7.x, 8.x, 9.x
iOS	9.3, 10.x, 11.x, 12.x

### Desktop Applications

For the Open Agent, Silk Test 20.0 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 11
Java SWT	Java 6, Java 7, Java 8, Java 9, Java 10, Java 11  Silk Test 20.0 has been tested with Java SWT version 3.2 or later.  Silk Test supports standalone and Rich Client Platform (RCP) applications.
JavaFX	Microsoft Windows 8 or later.
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 20.0 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 4.4.2 or later, both 32 and 64 bit. Version 4.9 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	<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> </ul>

Version	Editions
	<ul style="list-style-type: none"> <li>• Professional</li> <li>• Enterprise</li> </ul>
Visual Studio 2017	<ul style="list-style-type: none"> <li>• Community</li> <li>• Professional</li> <li>• Enterprise</li> </ul>
Visual Studio 2019	<ul style="list-style-type: none"> <li>• Community</li> <li>• Professional</li> <li>• Enterprise</li> </ul>

### 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.