Silk Test 19.5

Release Notes

Contents

Silk Test 19.5 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*.

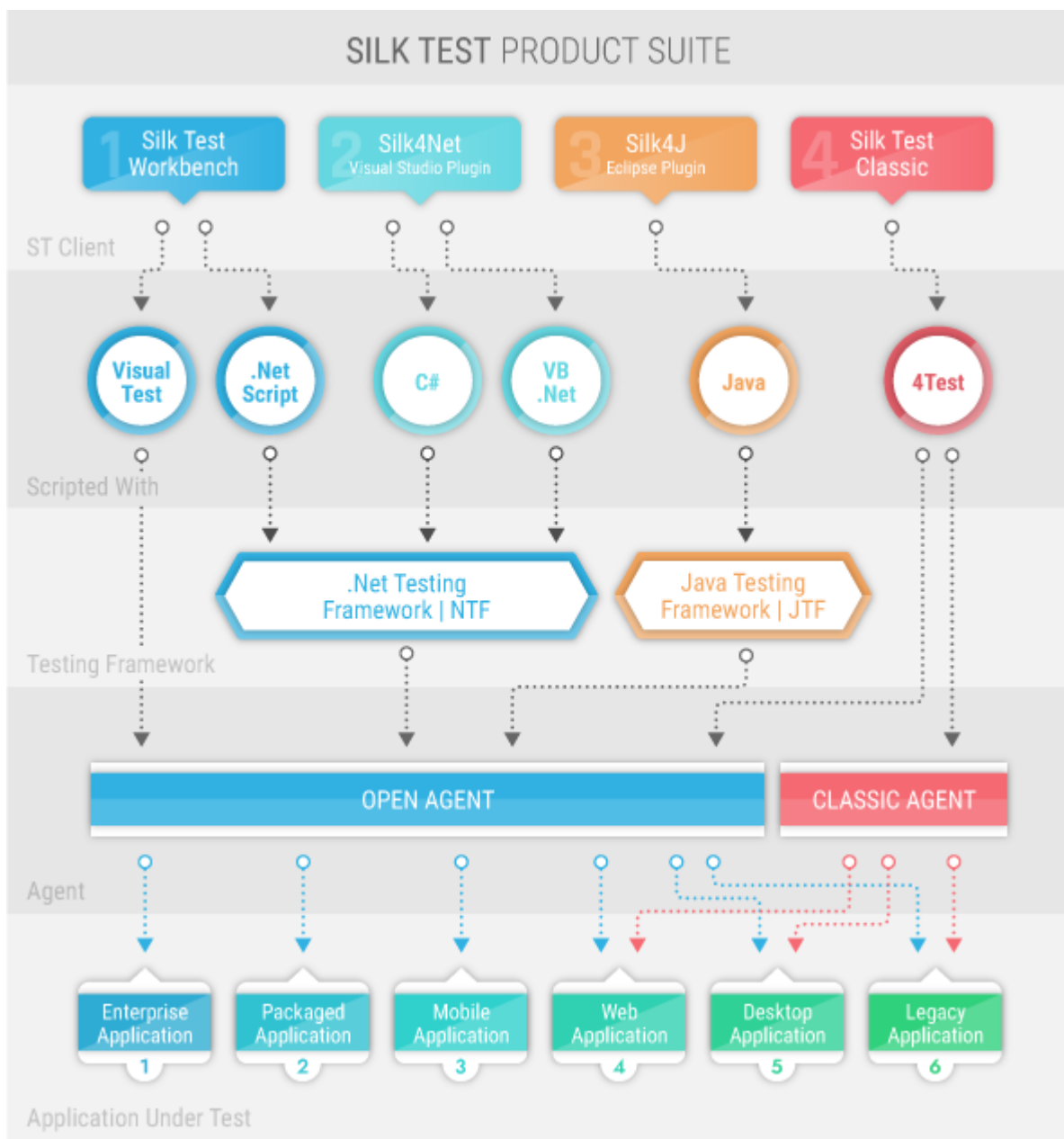For the latest version of this document, see *Release Notes*.

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.

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*
- Silk Test by default ships the JRE that is included in the AdoptOpenJDK. This JRE runs only on 64bit operating systems. If you want to install Silk Test on a 32bit operating system, you must have your own JRE installed. For additional information, refer to the *Silk Test Installation Guide*.

What's New in Silk Test

Silk Test supports the following new features:

UI Automation Support

Silk Test 19.5 offers Microsoft UI Automation (UI Automation) as a new fallback support.

To better recognize controls when recording against Windows-based applications that have implemented the UI Automation provider interface, you can enable the UI Automation support on machines that run on Microsoft Windows 8 or later. This provides fallback support for applications that are based on the following technologies:

- WPF
- WinForms
- Oracle JavaFX*
- QT
- PowerBuilder
- Delphi
- Microsoft Office

* JavaFX applications are detected out-of-the-box, without the need to manually enable the UI Automation support.

Cross-Platform Resulting

When running tests, Silk Test now creates an easily shareable HTML report that you can view in your favorite browser.

The report includes summary information about the test run, as well as detailed information about the executed actions.

By default, Silk Test writes both a TrueLog and an HTML report when running a test.

Asset Comparison in Silk Test Workbench

With Silk Test Workbench 19.5, you can compare two different assets of the same type or two versions of the same asset to easily spot the differences between the two assets or between the asset versions.

You can compare assets or asset versions for the following asset types:

- Visual test
- .NET script
- Object map

Usability Enhancements

This section lists usability enhancements that have been made in Silk Test 19.5.

Text recognition for WebDriver-based browsers

Silk Test now supports text recognition for WebDriver-based browsers.

Text recognition includes the following methods:

- `TextCapture`
- `TextClick`
- `TextExists`
- `TextRectangle`

Dynamically invoking methods when testing native mobile apps

To call Appium WebDriver methods that are not exposed through the API of your Silk Test client, Silk Test now enables dynamically invoking methods on mobile devices.

Storing ActiveData files in the database

You can now store ActiveData files in the Silk Test Workbench database.

Viewing includes for object maps

In Silk Test Workbench, you can now view which assets include an object map, so that you can update these assets when renaming or changing the object map.

Pausing test execution

While playing back a test in Silk Test Workbench, you can now pause the test execution at the current action by pressing **Alt+F11**.

Enhanced image recognition support in Silk Test Classic

Silk Test Classic now enables you to better interact with applications that contain highly customized controls, which cannot be identified using object recognition or text recognition. You can now use the `ImageExistsFile` method of the `AnyWin` class to verify that an image in a specific file exists and looks as expected in the application under test, and you can use the `ImageClickFile` method of the same class to click on an image, which is saved in a file, in the application under test.

Technology Updates

This section lists the significant technology updates for Silk Test 19.5.

New Microsoft Windows Versions

You can now leverage your test set by simply executing all your existing functional, regression, and localization tests on the Windows 10 October 2018 Update and on Windows Server 2019.

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 61
- Mozilla Firefox 62
- Mozilla Firefox 63

Note: This list includes the new versions of Mozilla Firefox that have been tested with Silk Test 19.5 until the release date of Silk Test 19.5. Silk Test 19.5 should be able to support newer versions of Mozilla Firefox, even if these versions have been released after the release date of Silk Test 19.5.

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 68
- Google Chrome 69
- Google Chrome 70

Note: This list includes the versions of Google Chrome that have been tested with Silk Test 19.5 until the release date of Silk Test 19.5. Silk Test 19.5 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 19.5.

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 44.17763, the Microsoft Edge version for the Windows 10 October 2018 Update.

New Apple Safari Version

In addition to the versions of Apple Safari, which have been tested with the previous version of Silk Test, Silk Test has now been tested with Apple Safari 12.

New Android Version

In addition to the Android versions, which have been tested with the previous version of Silk Test, Silk Test has now been tested with Android 9.

New iOS Version

In addition to the iOS versions, which have been tested with the previous version of Silk Test, Silk Test has now been tested with iOS 12.

New macOS Version

You can now leverage your test set by simply executing all your existing functional, regression, and localization tests for Apple Safari or iOS on macOS Mojave (10.14).

Java 11 Support

Silk Test now supports testing applications that are based on Java 11.

New Eclipse Version

Silk4J now supports Eclipse Photon (4.8).

New Java SWT Versions

Silk Test now supports testing applications that are based on Java SWT 4.8 and 4.9.

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
	D29020	Silk Test Workbench: References to other .NET scripts are removed when renaming a .NET script.
	D30008	Silk Test Workbench might crash when opening and closing .NET scripts that reference each other.
	D34001	Silk Test might crash when testing against Internet Explorer on a machine on which Symantec is installed.
3146796	1113571	Align the discovery of dlls in the Open Agent with the Classic Agent.
3155657	1114033	Silk Test Workbench: Large increase in execution times after installing Silk Test 18.5 Hotfix 1.
3154397	1114107	Silk4J: Problem connecting to Open Agent on remote machine.
3160132	1114381	Silk Test Workbench: Building a verification for a visual test fails when pasting the locator.
3160172	1114384	Silk4J and Silk Performer: Using a headless Mozilla Firefox within a GUI-level test causes an error.
3161521	1114543	Silk Test Workbench: Playback error `Could not find object.`
3162002	1114577	Silk4J: Android Emulator error: *Android Appium Server did not start within 24 s.*
3162230	1114604	Error on javascript window.confirm() dialog.
3162641	1114626	Silk4NET: Problem connecting to mobile device.
3161588	1114636	Silk Test Workbench cannot identify QT-framework-based objects with Accessibility.
3162794	1114665	Silk Test Workbench: Error when upgrading database schema to Silk Test 19.0.
3163484	1114673	Silk Test Classic: Random failures when executing a test case against a remote agent.
3163854	1114720	`SYS_Execute` hangs when running a batch file with the `pause` statement.
3164082	1114862	Silk Test Workbench: Using `splwow64.exe` dialog interrupts script execution.
3164907	1114992	Silk Test processes are not aborted when keyword-driven tests are executed from Silk Central.
3165014	1114813	Silk Test Workbench 19.0 might crash when duplicating a script.
3165141	1114818	Silk Test Workbench 19.0 might crash when clicking **End** on a playback error.
3165872	1114880	Silk4J: Unknown server-side error when testing a website on mobile only.
3166589	1115025	Unable to replay a recorded test.
3168586	1115129	Silk Central result does not match with Silk Test result.
3169197	1115161	Silk Test Classic: Parameters that contain double forward slashes in the test case are truncated.
3170097	1115239	Silk Test Workbench might crash after an error in a .NET script.

SI #	RPI #	Description
3170299	1115282	`WPFButton.Select` returns `Object reference not set to an instance of an object.`
3171918	1115414	Silk Test Workbench: Functions do not display to be selected.
3172055	1115463	After Upgrading to Silk Test 19.0, Silk Test is unable to add application configuration to AS400 Terminal application.
3173450	1115531	`TextCapture` is not returning French special characters on Terminal Emulator.

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 19.5 requires a Silk Test 19.5 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 19.5 has been tested.

Operating Systems

Silk Test 19.5 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
- Microsoft Windows Server 2019

Web Applications

For the Open Agent, Silk Test 19.5 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***, 61***, 62***, 63*** **Note:** For compatibility reasons, Silk Test 19.5 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, 68, 69, 70
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)	10.11.3, 10.12, 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 8.3.x, Xcode 9.x, Xcode 10.x
Silverlight	3 (Silverlight Runtime 4), 4 (Silverlight Runtime 4 and Silverlight Runtime 5)

Technology Type	Tested Version
	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.
Apache Flex (Only for Internet Explorer)	Silk Test 19.5 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 19.5 until the release date of Silk Test 19.5. Nevertheless, Silk Test 19.5 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 19.5 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, 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 19.5 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 19.5 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

Technology Type	Tested Version
Rumba	8.1, 8.2, 8.3, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5
MFC	14.11
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 19.5 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	- Professional - Ultimate
Visual Studio 2013	- Community - Professional - Premium

Version	Editions
	• Ultimate
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.