



Silk Test 20.5

Release Notes

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Silk Test 20.5 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](#).

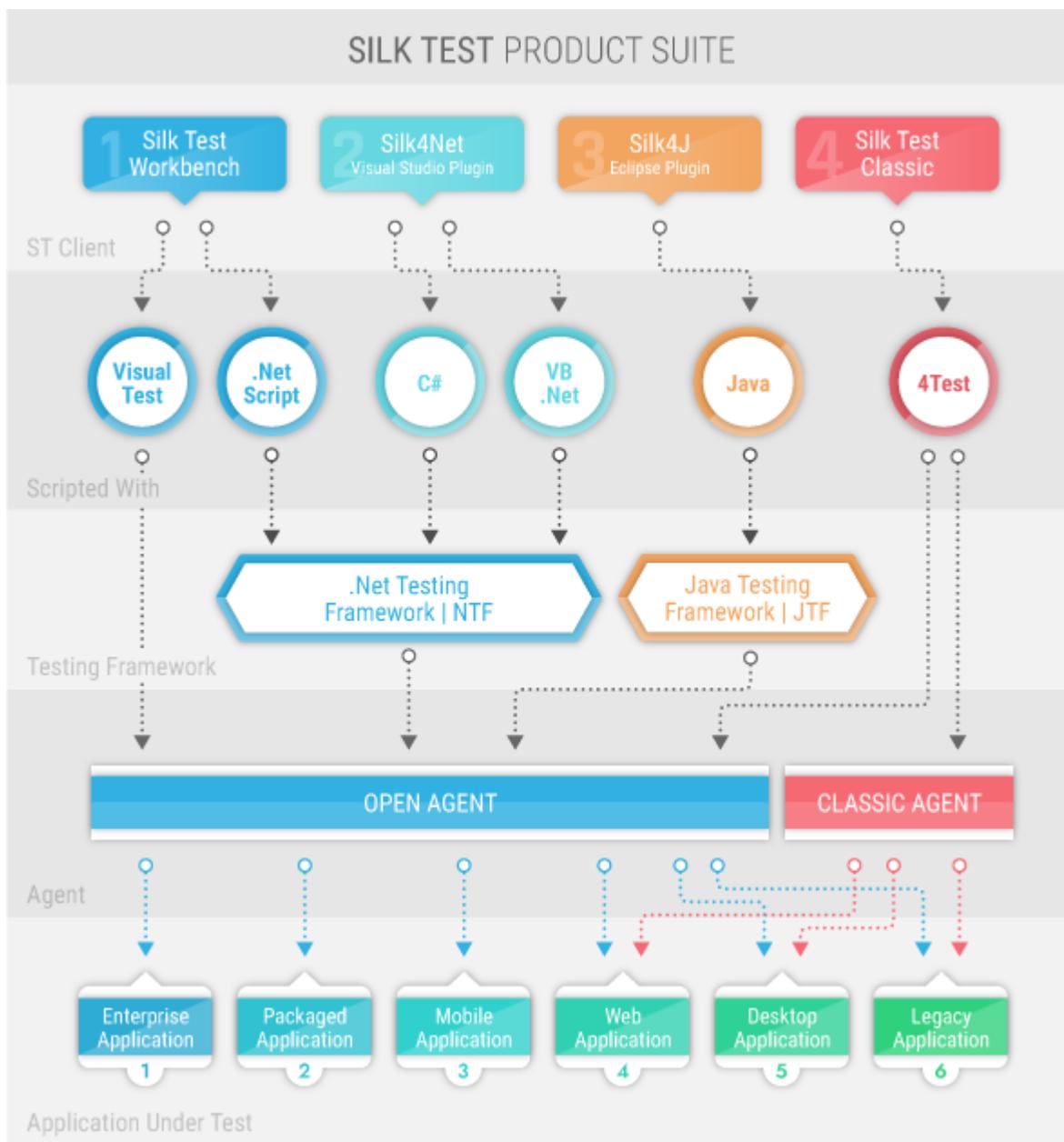
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Silk Test Product Suite

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:

Save Time and Costs with Service Virtualization for Mobile Devices

Mobile applications typically consist of two parts: a native or HTML-based front-end and back-end services, which can be remote Bluetooth or NFC devices, such as GPS watches or a smart door locking mechanism. The front-end heavily depends on those remote devices, but if the remote device is not accessible or is under development, it is difficult if not impossible to continue testing the front-end.

So rather than paying for expensive devices or sustaining delays, with the new embedded SV capabilities of Mobile Center (UFT Mobile) and Silk4J, remote devices are no longer a bottleneck for development testers. Instead, a DevTester can simply simulate these key services and remote devices to avoid waiting for the services and remote devices to be ready, which can result in significant savings in both time and costs. Since using SV with Silk4J is as simple as recording a test case, user adoption increases as well.

Enhance Security with Java-based Encryption

According to the World Quality Report, enhancing security is one of the top priorities of CIOs and senior technology professionals. With Silk Test 20.5, you can now use Java-based encryption to highly secure the encryption of data within any Silk Test script. Easily configure which algorithm should be used for encryption and decryption. Enhance your security with Java-based encryption.

Usability Enhancements

Gain Efficiencies with an Enhanced LocatorSpy

Simply validate the recorded or manually edited locator by pressing **Enter** to verify if objects can be found correctly. The enhanced LocatorSpy can save you a lot of time.

Technology Updates

This section lists the significant technology updates for Silk Test 20.5.

New Mozilla Firefox Versions

- Mozilla Firefox 67
- Mozilla Firefox 68
- Mozilla Firefox 69
- Mozilla Firefox 70

 **Note:** This list includes the new versions of Mozilla Firefox that have been tested with Silk Test 20.5 up to the Silk Test release date. Newer Mozilla Firefox versions might also be supported, even if these have been released after Silk Test 20.5.

New Google Chrome Versions

- Google Chrome 75
- Google Chrome 76
- Google Chrome 77
- Google Chrome 78



Note: This list includes the new versions of Google Chrome that have been tested with Silk Test 20.5 up to the Silk Test release date. Newer Google Chrome versions might also be supported, even if these have been released after Silk Test 20.5.

Microsoft Edge Support

Silk Test now supports Windows 10 May 2019 Update (44.18362).

Android and iOS Support

Silk Test now supports Android 10.x for web applications and native mobile applications.

Silk Test now supports iOS 13.x for web applications and native mobile applications.

Java Support

Silk Test now supports Java 13.

Eclipse Support

Silk Test now supports Eclipse 2019-09 (4.13).

Java SWT Support

Silk Test now supports testing standalone and Rich Client Platform (RCP) applications that are based on Java SWT 4.13.

Microsoft .NET Framework Support

Silk Test now supports Microsoft .NET Framework 4.7 and 4.8 for WinForms and WPF.

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	<i>Known Issues for Silk Test Workbench</i>
Silk4J	<i>Known Issues for Silk4J</i>
Silk4NET	<i>Known Issues for Silk4NET</i>
Silk Test Classic	<i>Known Issues for Silk Test Classic</i>

Resolved Issues and Customer-Driven Enhancements

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

SI #	RPI #	Description
3153008	634220	Request to enhance the logon process for all users.
	639615	The Silk Test Workbench crashes when pasting items from the object identifier.
3199018	640297	Resizing the browser window (Google Chrome) using the Browser Size functionality of the Recorder or the <code>SetViewportSize()</code> function in the script, does not work as expected.
	641127	Result assets cannot be imported using Silk Test Workbench 20.0.
3107171	1109571	When reviewing failed image verifications, the Silk Test Workbench reports an error and becomes unresponsive.
3155709	1114027	Request for a functionality to retrieve encrypted versions of passwords directly through the Silk Test Workbench user interface.
3192191	1117046	Request to pass in the browser URL using a system property or an environment variable.
3195057	1117257	When closing a running visual test or when closing the Silk Test Workbench during the execution, the name of the Active Data is lost and the script fails.
3193377	1117259	When right-clicking on a failed image verification, the option View failed Verification is disabled in the context-menu.
3196551	1117416	When connecting to the Oracle database, the Silk Test Workbench crashes.
3197753	1117498	Silk4NET: openAgent.exe has directory traversal file access, meaning that any user can access any file within the file system using the openAgent.exe listening ports.
3198159	1117550	When importing assets to the Silk Test Workbench, the import freezes at 11 percent. When stopping the import process, Silk Test becomes unresponsive.
3198384	1117577	Silk4NET: The TrueLog reports passed instead of failed for a test case when working with a dynamic variable.
3198834	1117596	Silk4J: When attempting to connect to an iOS 12.3 device to record or replay, the following error message displays: Xcode 10.2.1 has a minimum SDK version of 12.2.
3198990	1117622	Silk Test Workbench: The View Differences feature does not work properly.
3199279	1117635	Silk4J: The playback dialog does not display consistently for iOS devices when several devices are plugged into an iMac.
3199678	1117703	The Silk Test Workbench crashes when closing a Vb.Net script.
3198086	1117705	The Silk Test Workbench database prevents the execution of tests due to an inappropriate password. The database password is restricted to alpha numeric characters.
3198909	1117725	The Silk Test Workbench crashes when opening a particular version of an asset from the asset browser.

SI #	RPI #	Description
3199392	1117732	Silk Test Workbench: When execution a test with the option Save results with a new run number enabled and the global results option set to Do not save this result, the test returns passed when it actually should return failed.
3200762	1117778	When enabling a disabled test step of an existing visual test in the Silk Test Workbench, the properties fields are not automatically enabled.
3201934	1117878	Passing values from a visual test to a child element does not work when the child test is called in the error handling step.

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 20.5 requires a Silk Test 20.5 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	<ul style="list-style-type: none"> • Mobile web applications. <ul style="list-style-type: none"> • Android • iOS • Native mobile applications. <ul style="list-style-type: none"> • Android • iOS
Full	<ul style="list-style-type: none"> • Web applications, including the following: <ul style="list-style-type: none"> • Apache Flex • Java-Applets • Mobile web applications. <ul style="list-style-type: none"> • 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 <p> Note: To upgrade your license to a Full license, visit http://www.microfocus.com.</p>
Premium	All application types that are supported with a <i>Full</i> 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 20.5 has been tested.

Operating Systems

Silk Test 20.5 has been tested with the following operating systems:

- 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 20.5 has been tested with the following browsers and web technologies:

Technology Type	Tested Version
Mozilla Firefox**	67***, 68 (ESR*)***, 69***, 70***
Google Chrome**	75, 76, 77, 78
Chrome for Android	
Original Stock Android Browser (AOSP)	
Apple Safari on iOS	9, 10.1, 11, 12, 13
Apple Safari on Mac	9, 10.1, 11, 12, 13
Mac OS (Used for testing Apple Safari or iOS)	10.12.6, 10.13, 10.14, 10.15
Internet Explorer	10, 11
Microsoft Edge	Windows 10 October 2018 Update (44.17763) Windows 10 May 2019 Update (44.18362)
Android	5.x, 6.x, 7.x, 8.x, 9.x, 10.x
iOS	11.x, 12.x, 13.x
Xcode	Xcode 10.x, Xcode 11.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 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 20.5 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.

Technology Type	Tested Version
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 20.5 until the release date of Silk Test 20.5. Nevertheless, Silk Test 20.5 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 20.5 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	5.x, 6.x, 7.x, 8.x, 9.x, 10.x
iOS	10.x, 11.x, 12.x, 13.x

Desktop Applications

For the Open Agent, Silk Test 20.5 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 11, Java 13
Java SWT	Java 6, Java 7, Java 8, Java 11, Java 13 Silk Test 20.5 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
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 3.5 SP1, 4.0, 4.5, 4.6, 4.7, 4.8
WPF	.NET 3.5 SP1, 4.0, 4.5, 4.6, 4.7, 4.8

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

Silk Test Workbench

Silk Test 20.5 has been tested with the following databases for Silk Test Workbench asset storage:

- 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">• Professional• Ultimate
Visual Studio 2013	<ul style="list-style-type: none">• Community• Professional• Premium• Ultimate
Visual Studio 2015	<ul style="list-style-type: none">• Community• Professional• Enterprise
Visual Studio 2017	<ul style="list-style-type: none">• Community• Professional• Enterprise
Visual Studio 2019	<ul style="list-style-type: none">• 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.