

SilkTest 2010 R2

Release Notes

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SilkTest 2010 R2 Release Notes

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The SilkTest 2010 R2 Release Notes have been updated to include information about new feature support provided in SilkTest 2010 R2 WebSync 2.

 **Note:** To download WebSync 2, navigate to the *Product Updates* page on supportline.microfocus.com.

The Release Notes contain important information that might not appear in the Help. Read this information in its entirety. For information about installation and licensing issues, refer to the [SilkTest Installation Guide](#).

SilkTest Product Suite


The SilkTest product suite includes the following components:

- SilkTest Workbench – SilkTest Workbench is the new, native quality testing environment that offers .NET scripting for power users and innovative storyboard-based visual tests to make testing more accessible.
- 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.
- SilkTest Recorder – SilkTest Recorder enables you to record and replay tests using a GUI and then export those tests to SilkTest Classic, Silk4J, or Silk4NET.
- SilkTest Classic – SilkTest Classic is the traditional, 4Test SilkTest product.
- SilkTest Agents – The SilkTest 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.

What's New in SilkTest

This topic lists the significant enhancements and changes that were made for all products in the SilkTest product suite.

SilkTest 2010 R2 WebSync 2 adds supports for the following product-wide features:

 **Note:** WebSync 2 also includes support for all SilkTest 2010 R2 features.

Preliminary Internet Explorer 9 Support

SilkTest includes preliminary record and playback support for applications running in an Internet Explorer 9 Web browser.

Firefox 4 Support

SilkTest includes playback support for applications running in a Firefox 4 Web browser.

64-bit Support for Java Applications


SilkTest includes support for testing 64-bit Java applications developed using the following Java toolkits:

- AWT
- SWT
- Swing

SilkTest 2010 R2 supports the following product-wide features:

Java AWT/Swing Application and Applet Record and Replay Support

SilkTest includes record and replay support for Java AWT/Swing controls in applications and applets.

 **Note:** You can also test Java SWT controls embedded in Java AWT/Swing applications or applets as well as Java AWT/Swing controls embedded in Java SWT applications.

Adobe Flex Version 4.0 and 4.1 Support

In addition to the new Flex 4.0 and 4.1 controls, SilkTest also supports multiple application domains in Flex 3.x, 4.0, and 4.1 applications, which enables you to test sub-applications.

64-bit Support for .NET and Windows API-based Applications

SilkTest supports testing 64-bit applications for the following technology types:

- Windows Forms
- Windows Presentation Foundation (WPF)
- Microsoft Windows API-based

Default Recording Mode for xBrowser Applications is Low-Level Native User Input

Previously, the default recording mode for xBrowser applications used high-level DOM functions, such as `SetText` rather than `TypeKeys` and `DomClick` rather than `Click`. With low-level native user input as the default option, recorded tests are more likely to playback without modification. Low-level native playback supports plug-ins, such as Flash, Java applets, and AJAX applications, while high-level API recordings do not.

Dynamically Invoke Methods

With earlier versions of SilkTest, you can dynamically invoke methods for Windows Presentation Foundation (WPF) applications. With SilkTest 2010 R2, in addition to WPF applications, you can dynamically invoke methods for Windows Forms, Adobe Flex, Java SWT, Java AWT, Java Swing, and SAP applications.

You can call methods, retrieve properties, and set properties on controls that SilkTest does not expose by using the dynamic invoke feature. This feature is useful for working with custom controls and for working with controls that SilkTest supports without customization.

What's New in SilkTest Workbench

In addition to the product-wide features, SilkTest Workbench includes the following new features:

Importing and Exporting Assets

You can transfer assets from one database to another by using the import and export utilities. The import and export of assets is designed to simplify project management, share assets across a WAN, and utilize external version control systems. To import or export assets, you can either use the **Asset Import** wizard or the **Asset**

Export wizard. For either method, you can customize the import or export of assets depending on your needs and preferences.

You can import and export visual tests, scripts, object maps, ActiveData, results, and record and playback options.

Object Maps

An object map contains items that associate a logical name (an alias) with a control or a window, rather than the control or window's locator.

Object maps have the following benefits:

- Substitutes descriptive names for complex locator names, which can make visual tests and scripts easier to read.
- Eliminates dependence on locator names, which may change if the test application is modified.
- Simplifies test maintenance by applying changes made to a locator for an object map item to all tests that include the corresponding object map item.

Visual Tests

With visual tests, you can:

- Insert verifications for the object currently selected in the test application.

Pressing **Alt+F9** temporarily suspends recording and selects the currently highlighted object for verification. The **Test Logic Designer** wizard opens with the selected object set as the control to verify.

- Execute a .NET script within a visual test.

Visual tests can call and execute existing .NET scripts. This allows a modularized approach to application testing and provides greater control over test execution.

- Pass parameters from a visual test to a script and from a script back to a visual test.
- Insert a screen from the test application into a visual test.

Once a visual test step is created, you can open it and insert a screen capture and manually add the related test steps rather than recording additional screens and actions. Inserting a screen capture enables you to manually build a visual test that contains updated screens from the test application, which, in some cases, might be more efficient than recording the new screen.

- View snapshots in **Screen Preview** and **Storyboard** that are linked to appropriate group or individual step context in the **Test Steps** pane.

Steps that interact with a test application are represented by images of the corresponding application screen elements in the **Screen Preview**. Every automation test step has its own snapshot and is labeled as (group screen) or (step screen) in **Screen Preview**. Steps that display in the **Test Steps** pane are separated by a solid dark blue line to indicate a logical grouping. Steps grouped in this manner correspond to each thumbnail in the **Storyboard**.

Embedded Scripting Language

With scripts, you can:

- Create data-driven tests using ActiveData.

ActiveData testing enables you to leverage existing data in external files as input for powerful, comprehensive application testing solutions. ActiveData testing enables you to perform multiple transactions against test

applications using a different set of data for each transaction without writing complicated code or compromising existing data.

- Create and set parameters within a script which can be sent to and returned from other scripts.
- Pass parameters from a visual test to a script and from a script back to a visual test.

Integration with Additional Micro Focus Products

Several improvements have been implemented to enhance results analysis for users executing SilkTest Workbench tests from SilkCentral Test Manager (SCTM). Refer to the SilkCentral Test Manager documentation for details.

What's New in SilkTest Classic

In addition to the product-wide features, SilkTest Classic includes the following new feature:

Dynamic Object Recognition Supports Recording Locator Keywords

In earlier releases, you can manually create locator keywords as an alternative to using `Find` or `FindAll` functions in scripts that use dynamic object recognition.

Now, when you record a testcase with the Open Agent, SilkTest Classic creates locator keywords in an INC file to create scripts that use dynamic object recognition and window declarations. The locator is the actual name of the object, as opposed to the identifier, which is the logical name. SilkTest Classic uses the locator to identify objects in the application when executing testcases.

You can also manually record window declarations that include locator keywords using the Locator Spy. To record window declarations or locator keywords, choose **Record ► Window Locators**, capture the object or hierarchy that you want to use, and then click **Paste Hierarchy to Editor** or **Paste Locator to Editor**.

Testcases that use dynamic object recognition without locator keywords will continue to work.

System Requirements and Prerequisites

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

Hardware Requirements

We recommend the following hardware requirements:

System Area	Requirement
Processor	Intel or AMD DualCore processor running at 2 GHz
RAM	2 GB
Hard disk space	2 GB of free disk space

Platform Support




Platforms

SilkTest 2010 R2 runs on the following platforms:

- Windows XP SP3
- Windows Vista SP1 or SP2
- Windows 7
- Windows 2008
- Windows 2008 R2

Technology Domains and Browsers

SilkTest 2010 R2 supports applications that use the following browsers or are developed in:


Technology Type	Supported Version for SilkTest Workbench, SilkTest Recorder, Silk4NET, Silk4J, SilkTest Classic using the Open Agent	Supported Version for SilkTest Classic using the Classic Agent
Adobe Flex	3.0, 3.2, 3.3, 3.4, 3.5, 4.0, 4.1	not supported
Firefox	3.5, 3.6 (playback only)  Note: WebSync 2 adds support for Firefox 4 (playback only).	not supported
Internet Explorer	6, 7, 8  Note: WebSync 2 adds preliminary support for Internet Explorer 9.	6, 7, 8 (playback only)
Java AWT/Swing	Java 1.6	Java 1.6
Java SWT	3.2, 3.3, 3.4, 3.5, 3.6	not supported
SAP	SAPGUI client 7.10  Note: WebSync 2 adds support for SAPGUI client 7.20.	not supported
Win 32	any	any
WinForms	.NET 2.0, 3.0, 3.5, 3.5 SP1, 4.0	not supported
WPF	.NET 3.5 SP1, 4.0	not supported

Databases


SilkTest 2010 R2 supports the following databases with the noted operating systems for SilkTest Workbench asset storage:

- SQL Server 2008 (SP1) + Express
- SQL Server 2005 (SP3) + Express

- Oracle 11.1
- Oracle 11.2

 **Note:** If you choose to install SQL Server 2008 Express SP1 during the SilkTest installation, ensure that you have one of the supported operating systems:

- Windows 7
- Windows Server 2008
- Windows Server 2008 R2
- Windows Vista SP1 or SP2


 **Note:** For Windows Vista SP1, you must install the full version of .NET 3.5 SP1 or 4.0 on your computer before you can install SQL Server. Otherwise, SQL Server Express might not install. To install the full version of .NET 3.5 SP1 or 4.0, download it from the Microsoft Web site.

- Windows XP Service Pack 3


Tested Configurations



Tested configurations, by platform, are listed below. Note that it is not possible to test all combinations. Experience indicates that various combinations can result in different behavior with SilkTest. Micro Focus makes every attempt to test as many of these combinations as possible.

While you can use SilkTest on 64-bit operating systems, SilkTest only supports testing 64-bit applications for .NET and Windows API-based applications.

 **Note:** WebSync 2 adds support for testing 64-bit Java applications.



 **Important:** You must have local administrator rights and UAC turned off to use SilkTest.

Platform Type	Tested Configurations for SilkTest Workbench, SilkTest Recorder, Silk4NET, Silk4J, SilkTest Classic using the Open Agent	Tested Configurations for SilkTest Classic using the Classic Agent
Windows 7 (32bit)	Internet Explorer 8	Internet Explorer 8 (playback only)
Windows 2008 SP2 (32bit)	Firefox 3.6 (playback only) Flex 3.5, 4.1 Java 1.6 (AWT/Swing) SWT 3.6 .NET 3.5 (WinForms) .NET 4.0 (WPF) Win 32 SAPGUI client 7.10 patch 13  Note: WebSync 2 adds support for SAPGUI client 7.20 patch 6.	Java 1.6 (AWT/Swing) Win 32
Windows Vista SP2 (32bit)	Internet Explorer 7	Internet Explorer 7 (playback only)

Platform Type	Tested Configurations for SilkTest Workbench, SilkTest Recorder, Silk4NET, Silk4J, SilkTest Classic using the Open Agent	Tested Configurations for SilkTest Classic using the Classic Agent
	Firefox 3.6 Flex 3.5, 4.1 Java 1.6 (AWT/Swing) SWT 3.6 .NET 4.0 (WPF) Win 32 SAPGUI client 7.10 patch 13	Java 1.6 (AWT/Swing) Win 32
	 Note: WebSync 2 adds support for SAPGUI client 7.20 patch 6.	
Windows XP SP3 (32bit)	Internet Explorer 6 Firefox 3.0 Flex 3.5, 4.1 Java 1.6 (AWT/Swing) SWT 3.5 .NET 3.5 (WinForms) .NET 4.0 (WPF) Win 32 SAPGUI client 7.10 patch 13	Internet Explorer 8 (playback only) Java 1.6 (AWT/Swing) Win 32
	 Note: WebSync 2 adds support for SAPGUI client 7.20 patch 6.	
Windows 7 SP1 (64bit)	Internet Explorer 9 Firefox 4 .Net 4.0 (WPF) Win 32 SWT 3.6.1 Java 1.6 (AWT/Swing)	
Windows Vista SP2 (64bit)	Internet Explorer 8 Firefox 3.6	
Windows 2008 R2 SP1 (64bit)	.NET 4.0 (WPF) Win 32 SWT 3.6.1 Java 1.6 (AWT/Swing)	

Adobe Flex Support

SilkTest supports testing Flex 3.0, 3.2, 3.3., 3.4, 3.5, 4.0, and 4.1 using the following:

-  **Note:** WebSync 2 adds preliminary support for Internet Explorer 9.
- Internet Explorer 8 (GA)
- Internet Explorer 7 (GA)
- Internet Explorer 6 (SP 1 and SP 2)
-  **Note:** WebSync 2 adds support for Firefox 4 (playback only).
- Firefox 3.5, 3.6 (playback only)
- Adobe AIR 2.0 (built with Flex 4.0 and 4.1)


Java Support

Open Agent Support

SilkTest supports the following Java components for SilkTest Workbench, SilkTest Recorder, Silk4NET, Silk4J, SilkTest Classic using the Open Agent:

- SWT 3.2, 3.3, 3.4, 3.5, and 3.6 standalone and Rich Client Platform (RCP) applications (SWT standalone applications executed as an applet in the browser not supported)
- Java version 1.6
- AWT
- Swing (including Java Foundation Classes)
- Applets (in all supported browsers)


Recording a 64-bit Java application results in low-level (Win32) actions. For typical Java support, use a 32-bit Java Virtual Machine (JVM).

 **Note:** WebSync 2 adds recording support for 64-bit Java applications running in a 64-bit JVM.

Classic Agent Support

SilkTest supports the following Java components for SilkTest Classic using the Classic Agent:

- Java version 1.6
- AWT
- Java Foundation Classes (JFC, Swing)
- Symantec Visual Café
- Applets


 **Note:** Applets are not supported on Internet Explorer 8.

SilkTest Classic DSN Support

SilkTest Classic's Data Driven Workflow supports:

- Text files and comma separated value files (*.txt and *.csv files)
- MS Excel
- MS Access
- MS SQL Server
- Oracle (partial support)
- SyBase SQL Anywhere

SilkTest Classic accesses the preceding databases using ODBC and therefore supports the versions of those databases that have a working ODBC driver.

 **Note:** The SilkTest 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 testcases, 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.

End-Of-Life (EOL) Components

The following operating systems, features, and integrations are not supported in SilkTest.

- Adobe Air 1.x
- Classic OCR
- Firefox 3.0
- IBM JRE 1.5
- Java version 1.5
- MSUIA technology domain (the WPF technology domain is still supported)

Resolved Issues

Issue #	Description	Notes
RPI 576760	When an application prompts a user on exit, errors occur during playback	Knowledge Base Article 31353
RPI 577377	When SQL Server Express 2008 is installed, TCP/IP is not enabled by default	Knowledge Base Article 31506
RPI 1074627	Ability for the Open Agent to see content within an IFrame	
RPI 1075485	When using the "Display the Asset Browser" button on the View toolbar, this opens a new Asset Browser window, instead of displaying the existing or the most recently used asset browser window.	
RPI 1075548	WPF controls not recognized when launched from a WinForms application	
RPI 1075721	Unable to determine when a FlexTitleWindow has closed	
RPI 1075745	Open Agent uses Win32 class names instead of .NET class names and IDs	

Issue #	Description	Notes
RPI 1075867	Projects that include files that are read-only do not open correctly	
RPI 1075889, RPI 1076205 , RPI 1076316	Silk Test Classic 2010 crashes on Recording Window Declarations	
RPI 1075894	GetTestPlanName returns wrong value when not in a testplan	
RPI 1076002	GetContents is returning special characters with bRawMode as False	
RPI 1076148	WPF 4.0: Synchronization issue	
RPI 1076326	SilkTest 2010 Test Script runs are slower than SilkTest 2009 Test Scripts runs	
RPI 1076701	CaptureBitmap does not work with "ä", "ö" or "ü" in path.	
RPI 1077108	Handle problem with GetCloseWindows() call	
RPI 1077168	Meaningful error message when using OpenContextSelect method	
RPI 1077181	GetItemRect for Java Objects	

Known Issues

SilkTest's known issues and their resolutions are documented in the [Micro Focus Knowledge Base](#).

Installation Instructions

The Release Notes contain important information that might not appear in the Help. Read this information in its entirety. For information about installation and licensing issues, refer to the [SilkTest Installation Guide](#).