

## DATA SHEET

# SILK4J™

### Product overview

Silk4J is the leading, and fastest, tool for automating the functional testing process of enterprise software applications via the application Graphical User Interface (GUI). Its powerful test automation capabilities make it the perfect solution for regression, cross-platform and localization testing across a broad set of application technologies including AJAX and Web 2.0, RCP or .NET and client/server, within the confines of today's short testing cycles. Designed for realizing automation benefits even when applied to complex test cases, Silk4J provides a host of productivity-boosting features that let you easily cope with changes in the Application Under Test (AUT). Additionally, Silk4J's powerful testing framework enables high reusability of test scripts across test projects, which further increases the achievable ROI. With less time spent on building and maintaining testing suites, your QA staff can expand test coverage and optimize application quality.

### Key benefits

Silk4J delivers the efficiency and productivity benefits of functional test automation while mitigating the classic challenges faced when implementing automated testing, such as lack of time, budget and resources. Successful automation consists of a manageable development effort, reusable and easily maintained test assets, the ability to run the automation whenever and wherever it's needed, and quick and accurate results analysis. Silk4J enables all of these elements to help you realize the benefits of your automated testing efforts. With Silk4J, functional test automation leads to quality and cost advantages:

- Higher QA productivity and lower testing costs
- Higher test coverage
- Consistent and repeatable test results
- Ability to create powerful testing frameworks and include Business Analysts, customer AND developers in the testing process
- Reduced costs of defects

### Detailed feature overview

#### Supporting Test Driven Development

Silk4J offers many features to promote rapid test development, such as a Standalone Action Recorder for rapid test creation. However, in a Test Driven Development environment, there will most often not be a GUI to record from. With Silk4J, scripts can be created in Java prior to any code development to represent the workflow of the software. Code can then be generated in order to pass this flow, Test Driven Development.

### RAPID DEVELOPMENT, RAPID EXECUTION

In order to support the fast iterative delivery of systems through a code-and-test cycle, it is vital that script creation be as simple, robust and quick to execute as possible. Silk4J's unequalled capability to provide complete AJAX, cross-browser support eliminates wait times or object searches.

This means fewer lines of code in your scripts, resulting in:

- Less development
- Less maintenance
- Less cost
- Greater reliability
- Higher speed of execution

### EASE OF MAINTENANCE

Silk4J, through the Open Agent, supports robust replay against Dynamic applications typical in a Browser. Dynamic Object Recognition (DOR) enables fast replay against Rich Internet Applications such as Flex and AJAX based applications. Synchronisation, the key to dealing with AJAX, is a feature of the Open Agent, with its ability to synchronise not just against the Browser but also against individual Objects. This provides Silk4J with the ability to deliver robust and reliable scripts that can be replayed cross-browser to test Dynamic applications.

### AGILE OR TRADITIONAL - FAST, ACCURATE AND REPEATABLE TESTING

With Silk4J, developers of scripts can come from many backgrounds and skill sets. Whether you are a developer that prefers to write scripts in Java, a traditional tester who likes to generate scripts quickly with a recorder and refine the script later, or a business user that requires simple, keyword driven testing using an established test framework such as FitNesse, Silk4J is a tool you can use.

### Key feature highlights

#### Selected Features

- Eclipse plug-in enabling rapid localizations and development of scripts in Java
- GUI Action Recording for instant productivity
- Extensible and easy-to-maintain scripting language
- Agent technology for enabling individual tests to span distributed machines

- Integration with SilkCentral Test Manager for advanced, process-oriented test management and issue tracking
- Support for Web, Flex, AJAX and Windows-based applications
- Built-in support for testing Adobe Flex applications using Internet Explorer, Firefox, and the Standalone Flex Player Adobe AIR
- Improved User Interface
- Dynamic Resolving enables any objects to be located without reference to a windows hierarchy

## Product Specifications and System Requirements

### SYSTEM REQUIREMENTS

Your computer must meet the hardware requirements listed below:

#### Platform

- Windows XP (SP2, SP3)
- Windows Server 2003 SP2
- Windows Vista
- Windows 7
- Windows Server 2008

#### Processor

- Intel® Pentium processor running at 1 GHz

#### RAM

- 1 GB of RAM.

#### Hard Disk Space

- 600 MB, 1200 MB for installation

### SUPPORTED ENVIRONMENTS

#### Browser GUIs

- AJAX
- DHTML (JavaScript and CSS)
- XML data (XML/XSL Web pages)
- Microsoft HTC/HTA

#### Rich Internet Applications

- Adobe Flex® 3.0, 3.2, 3.3, 3.4
- Adobe AIR™ 3.0

#### Web Browser

- Microsoft® Internet Explorer® 6, 7 and 8
- Mozilla® Firefox® 3.0 and 3.5

#### Java GUIs

- Eclipse 3.0, 3.1, 3.2, 3.3, 3.4 and 3.5 SWT Standalone and Rich Client Platform (RCP) applications
- Java AWT
- Java Foundation Classes (JFC, Swing)
- Symantec™ Visual Café

#### Java

- Sun® JVM 1.4, 1.5, 1.6
- IBM® JRE 1.5

#### .NET GUIs

- Microsoft .NET WinForms
- Microsoft .NET WPF

#### .NET

- Microsoft .NET CLR 2.0, 3.0, 3.5

#### Native GUIs

- Win32, MFC

#### Internationalisation

- Full Unicode enabled (excluding SilkBean)

For additional information please visit: [www.microfocus.com](http://www.microfocus.com)

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