

## DATA SHEET

# SilkPerformer® SOA Edition

## Business challenge

Software components are the central building blocks of a SOA distributed server-side application. They run the business logic that is critical to system success - so critical that a single design flaw in a component can dramatically undermine application quality. Detecting such a problem late in development typically leads to cost overruns and missed deadlines.

## Product Overview

SilkPerformer® SOA Edition is a powerful - yet easy-to-use - tool for testing the server-side software components of SOA-based applications, even under realistic server conditions. Its visual interface enables even QA personnel with no programming knowledge to test the functionality, interoperability and performance of these components early in development. Potential problems can be identified and fixed before they become realities, avoiding the time and expense of redevelopment while ensuring the quality of multi-tier applications. Whether SOA components are built in .NET or Java, SilkPerformer SOA Edition has a version to help close the gap between your development and QA teams.

## Key Benefits

SilkPerformer SOA Edition offers the following benefits:

- Unit/component validation: assures individual services work properly in the developer's environment
- Functionality: ensures that services actually meet business expectations and deliver value from an end-user perspective
- Performance: makes certain that Web services perform well under heavy, concurrent usage
- Interoperability: makes sure that Web services continue working as designed when combined with other services individually or under load conditions

## Detailed Feature Overview

### Issue identification and correction early in development

SilkPerformer SOA Edition enables you to thoroughly test SOA components early on - even before client applications are built. This allows you to reduce defect and bottleneck repair costs, and avoid time-consuming re-architecture later in the application lifecycle.

### Test components under concurrent access

SilkPerformer SOA Edition lets you thoroughly test the following remote components, regardless of how they are implemented:

- Web services
- .NET serviced components
- .NET Remoting objects
- Enterprise JavaBeans™
- Java™ RMIobjects
- COM+/MTS components
- (D)COMobjects

Unlike unit testing tools that evaluate the functionality of a remote component being accessed by only one user, SilkPerformer SOA Edition tests components under concurrent access, emulating realistic server conditions. It also verifies the performance and interoperability of remote components.

### Component functionality and performance measurement

SilkPerformer SOA Edition accurately tests the functionality of remote components and identifies functional errors that occur under concurrent access by verifying the return values of remote method calls.

SilkPerformer SOA Edition measures the performance of components. You can quickly identify network delays for analysis by simply drilling down to view metrics for connect, request, receive and server-busy times.

### Interoperability testing

SilkPerformer SOA Edition also verifies that all clients can access all remote components without encountering compatibility problems. That's because it can run tests with different client SOAP stack implementations, JDK™ implementations and .NET runtime versions.

### Easy point-and-click visual scripting

With SilkPerformer SOA Edition, you can free up programming staff and delegate testing to QA personnel. Its intuitive point-and-click visual scripting technology lets users create even complex test scenarios quickly and easily without needing to know programming language syntax. Support for complex method parameters enables you to use this simple visual approach to test even the most sophisticated transactions.

## Collaboration between QA and development

SilkPerformer SOA Edition also enables QA to test remote components by reusing JUnit or NUnit tests built during development. Using its technology, programmers can build remote component tests in Java or any .NET language. An add-in allows developers to create tests directly from within Microsoft® Visual Studio® .NET or Eclipse. Developers can build test drivers inside their known environment while QA engineers concentrate on customizing them for automated test execution.

## Investment protection

You can leverage existing test scripts in a variety of ways with SilkPerformer SOA Edition:

- Reuse existing scripts to test the performance of remote components in full-scale SilkPerformer load tests
- Export existing test cases to JUnit or NUnit when you find a buggy remote component, to streamline the error re-creation process in your development organization
- Reuse existing test scripts in unattended regression tests using the SilkCentral® Test Manager quality management solution

## Product Specifications and System Requirements

### Operating System

- Microsoft®, WindowsVista®, Windows® 2008, Windows® 2003, Windows XP

### Memory

- 512 MB RAM (1024 MB recommended)

### Supported Environments

- Remote component models
- Web Services, Enterprise JavaBeans, Java RMI, .NET serviced components, .NET Remoting, COM+/MTS components and (D)COM objects

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