Borland®
THE OPEN ALM COMPANY

Borland® SilkPerformer® SOA Edition

Service Oriented Architecture (SOA) Component Testing

THOROUGHLY TEST SERVER-SIDE SOFTWARE COMPONENTS EARLY IN THE LIFECYCLE

Borland® 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.

FEATURES AND BENEFITS

ISSUE IDENTIFICATION AND CORRECTION EARLY IN DEVELOPMENT

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.

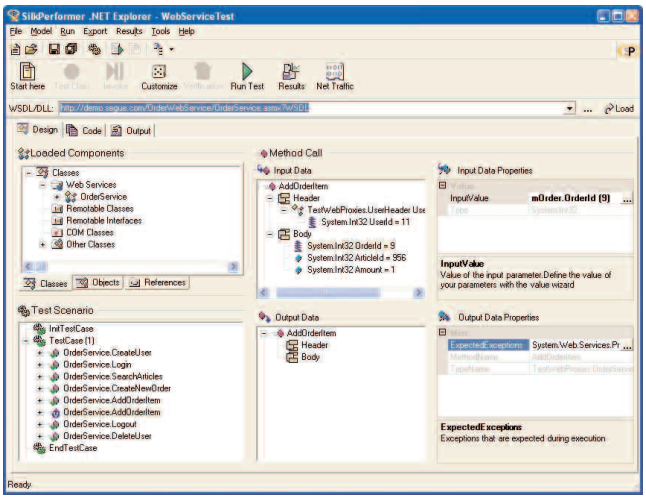
Borland SilkPerformer SOA Edition enables you to thoroughly test SOA components early on - even before client applications are built. This allows you to reduce defect and bottleneck repair costs, and avoid time-consuming re-architecture later in the application lifecycle.

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™ RMI objects
- COM+/MTS components
- (D)COM objects

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 by up to five virtual users, emulating realistic server conditions. It also verifies the performance and interoperability of remote components.



Create test cases by exploring SOA-component interfaces with point and click.

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. It answers such questions as:

- Does each component work to its specifications?
- Do deadlock situations occur when multiple users access the same component at the same time?

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. It answers such questions as:

- Do all components meet their performance criteria?
- Does performance degrade under concurrent access (for example, due to blocking issues)?

Borland® SilkPerformer® SOA Edition

FEATURES AND BENEFITS (CONTINUED)

INTEROPERABILITY TESTING

Borland 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. It answers such questions as:

- Do all remote components work with all clients? Can all clients and potential customers access all the services provided through each remote component?
- If we purchase a third-party component, will it be compatible with our environment? With our customer's environment?

EASY POINT-AND-CLICK VISUAL SCRIPTING

With Borland 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.

This approach clearly delineates QA and development tasks and defines clear interfaces for each, fostering cross-departmental communications. 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 Borland® SilkCentral® Test Manager quality management solution
- Export existing test cases to any third-party development environment, such as Borland® JBuilder® or Microsoft Visual Studio .NET, for further customization

SYSTEM REQUIREMENTS

Operating System

- Microsoft Windows® 2003, Windows XP™, Windows® 2000

Memory

- 256 MB RAM

Supported Environments

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

Borland is the leading vendor of Open Application Lifecycle Management (ALM) solutions - open to customers' processes, tools and platforms - providing the flexibility to manage, measure and improve the software delivery process.

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