



## HP Service Test software

Data sheet



HP Service Test software is service-oriented architecture (SOA) testing software that lets you test services for both functionality and performance—quickly and effectively.

### Test services for functionality and performance

Service-oriented architecture (SOA) can make businesses more agile, but can add IT complexity. With SOA, you need to take a new approach to services quality assurance (QA). HP, a leader in the testing industry, provides HP Service Test software, testing management software for the SOA environment. HP Service Test lets you test services for both functionality and performance, quickly and effectively. HP Service Test lets you:

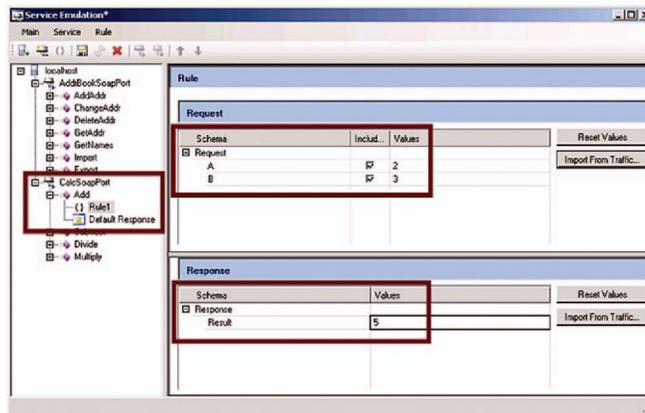
- Manage massive numbers of services and data
- Perform multi-layer, user interface (UI) testing and shared services testing
- Enhance the quality and performance of individual services

### Manage massive numbers of services and data

Composite applications rely on shared services that may be used throughout the enterprise. QA teams may need to manage hundreds—or even thousands—of shared services that are often changing and evolving. For example, if you have ten services and each one has ten different operations with ten different data sets, you end up with 1,000 testing permutations.

## Test incomplete environments earlier

Services emulation allows for earlier testing and QA of incomplete environments.



Executing a thousand test cases is a challenge under normal circumstances. But if your QA team is using manual testing or if changes are introduced to the services under test, the number of test permutations can increase exponentially. This results in either very lengthy QA cycle times or services being deployed to production without adequate testing and quality assurance. HP Service Test lets you automate and manage the complexity and change associated with shared services.

## Test the UI and shared services

Fully testing a business process requires testing both the UI and the services in the back-end that support the UI business process. QA teams are typically familiar with UI testing and use appropriate automation solutions to speed the process. But testing teams may fail to thoroughly test the shared services because they lack a UI, and users don't have testing software. HP Service Test supports both UI and shared services testing for comprehensive testing of the business process.

## Test the quality and performance of individual services

You need to test SOA services throughout the lifecycle to determine that they function as designed and provide the expected performance. SOA creates new functional and performance testing challenges:

- **Asynchronous performance testing:** With SOA, services are often not synchronized. HP Service Test lets you create and track server calls for successful asynchronous performance testing.
- **Interoperability service testing:** Interoperability service testing is done so that a service performs the same way using different client technologies. With HP Service Test, you can simulate J2EE, AXIS and .NET client environments.

## How HP Service test software works

HP Service Test is geared toward pure services testing and offers the following capabilities:

- Decoupling (API and protocol-layer) validation
- Shared services functional testing
- Full coverage SOA interfaces (multiple protocol support—SOAP, web services over HTTP, WS over Java™ Message Service, MQ)

HP Service Test reduces manual testing and automates the testing process for services. Without test automation, most services are deployed to production without adequate testing.

## Test the impact of changes

The introduction of changes further complicates the SOA testing process and increases the number of test permutations. HP Service Test helps your QA teams manage the increased workloads generated by changes to registered services. It reduces the potential business risks of changes and decreases the need for further regression testing.

HP Service Test helps you automate the testing process for non-UI testing of services. It lets you import web services description language (WSDL) and validate its functionality and XML data. This functionality reduces the need to create temporary UIs for QA and helps save time and money for your enterprise.

Scripts created within HP Service Test can be executed using HP LoadRunner software for performance testing. This increases productivity in QA and also provides rapid return on investment (ROI) for your testing software.

HP Service Test also provides stub simulation to allow you to simulate multiple services in QA without having to replicate the production environment. This also helps QA conduct interoperability testing and validate that a service performs the same under different client technologies. As with all HP testing solutions, HP Service Test is fully integrated with HP Quality Center software as an automation tool for executing functional testing services.

## Key features and benefits

- **Ease of use:** Simplifies the ongoing testing of services and reduces scripting through automation
- **Script creation for functional and performance testing:** Lets you create a single script for both functional and performance testing
- **GUI-less services testing:** Tests services without the need for a UI, which reduces time to market and costs
- **Complexity management:** Integrates with HP Quality Center, allowing QA teams to identify changes to services and automate their testing to increase the quality of services in production

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4AA1-2120ENW, May 2007

