



HP quality management software for SOA

Solution brief



HP quality management software for SOA provides testing of SOA services and complete, service-oriented quality management.

The need for SOA quality management

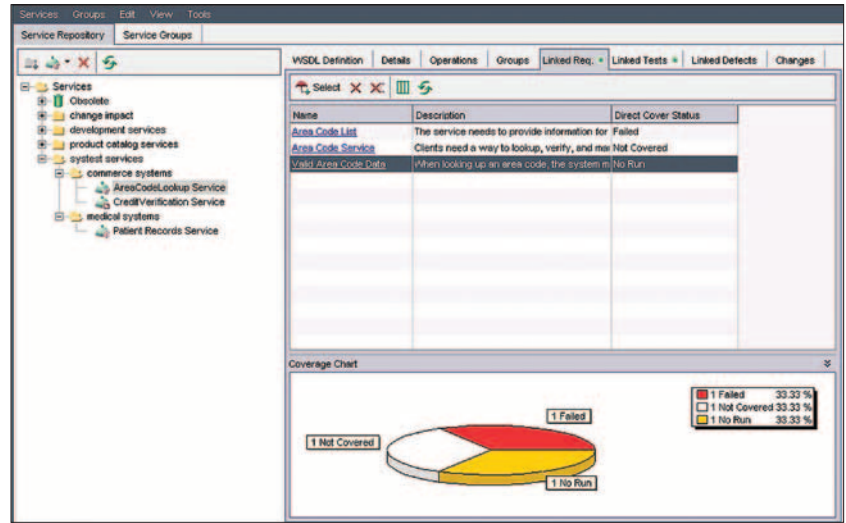
Service-oriented architecture (SOA) can make businesses more agile, but SOA also adds IT complexity. SOA requires a new approach to quality assurance (QA): service-oriented quality management. QA must deliver the same level of quality in their SOA but with increased complexity and decreased cycle times. Additionally, QA teams need to organize, execute and report on their activities in a service-oriented manner. HP, a

leader in quality management software, provides end-to-end quality management and functional and performance testing to enable service-oriented quality management.

HP quality management software for SOA:

- Extends and augments other industry-leading quality management platforms
- Helps enable the quality of your SOA
- Handles the complexity of service testing
- Complements the HP quality management software portfolio for testing your SOA at all layers
- Is powerful and flexible to adapt to your changing needs

Figure 1
 With HP Service Test Management, traceability is maintained among a service, its requirements and the test cases that verify its requirements.



Extend and augment industry-leading quality management platforms

HP is a market leader for quality management software with HP Quality Center software, HP LoadRunner software and HP Performance Center software. HP quality management software for SOA builds on top of these industry-standard software products and augments them for delivering a quality SOA. The HP Service Test Management module plugs into HP Quality Center and lets you link service definitions with requirements, test cases, test execution strategies and defects.

Be confident in your SOA quality

SOA quality is more than just testing your SOA services. Your SOA infrastructure must scale, you need to verify your SOA-enabled business processes, you need to deploy policies that work in your environment and you need to feel confident in compliance. Having a quality SOA environment requires a holistic view of your SOA and SOA quality management.

Handle the complexity of service testing

Verifying the quality of a headless service is very different from verifying the quality of a user-facing application. HP Service Test software lets you view the interface to these services, generate test cases for the services and create robust functional and performance scripts for these services. HP Service Test also lets you adjust security and environment information and externalize data from the script itself.

Complement the entire HP quality management software portfolio

SOA quality must also integrate with application quality. Shared services are typically built to be used in the context of one or more client applications. Quality is provided when you verify that service-enabled applications function and perform correctly. Through integration with other HP quality management software, HP quality management software for SOA provides complete visibility into the overall quality of your SOA and SOA-enabled applications.

Get power and flexibility

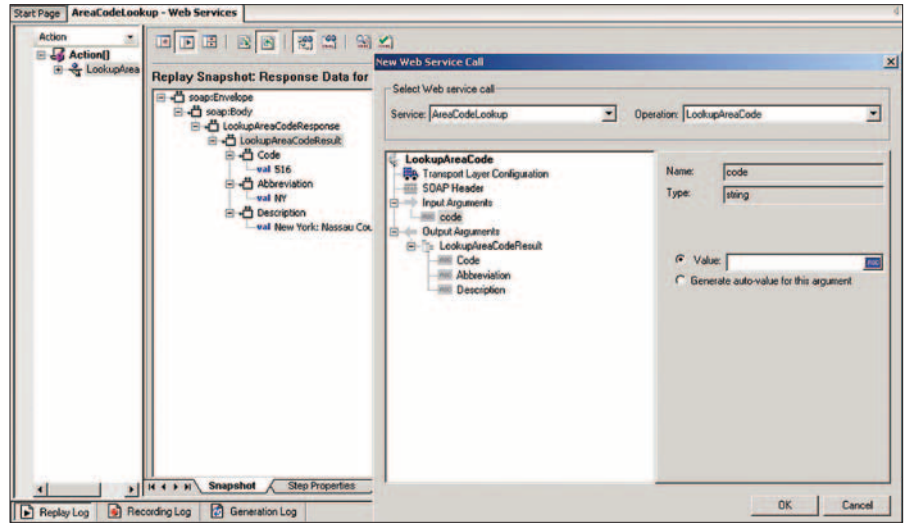
By leveraging the most powerful parts of the HP quality management software portfolio, our SOA quality management software can extend beyond testing WSDL-based services. With HP Service Test, you can test many protocols and languages supported by HP LoadRunner. No SOA is made up of 100 percent web services, and quality solutions need to extend to other platforms as well.

HP Service Test Management

HP Service Test Management plugs into HP Quality Center for service-oriented quality management. Service entities can be pulled from the SOA system of record (through the UDDI interface) or other mechanisms that you use to share services, such as URLs or files. Once the service entities are defined in HP Quality Center, you can:

- Identify and document what needs to be tested
- Design how it should be tested
- Assign the work to members of the team
- Manage execution (first runs as well as regression cycles)
- Triage and manage testing defects

Figure 1
 HP Service Test inspects the WSDL contract and creates an easy-to-use tree view of the service operations and arguments.



In addition, you can keep track of the constant change associated with your SOA. HP Service Test Management lets you perform change-impact testing on your service assets. As services change, HP Service Test Management highlights all test cases associated with a service and can generate regression test sets automatically.

HP Service Test

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

- Decoupling (API and protocol-layer) validation
- Shared services functional testing
- Full coverage of your 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, you would have to deploy most services into production without adequate testing. HP Service Test provides automated functional testing and is fully integrated with other HP Quality Center software.

SOA plug-in for HP LoadRunner

You can automatically leverage the assets that are built with HP Service Test with HP LoadRunner. You do not need to change testing scripts to run them under a load-testing scenario. Therefore, you reduce the overall cycle time as well as enable accurate load testing in shared service and multiple technology environments.

Leveraging HP LoadRunner also lets you benefit from the power of analytics, the breadth of generation and monitoring support and the precision of diagnostics to conduct high-value performance engineering activities.

A complete solution

Comprehensive training

HP provides a comprehensive curriculum of HP Software and IT Service Management courses. These offerings provide the training you need to realize the full potential of your HP solutions, increase your network optimization and responsiveness, and achieve better return on your IT investments.

With more than 30 years experience meeting complex education challenges worldwide, HP knows training. This experience, coupled with unique insights into HP Software products, positions HP to deliver the optimum training experience. For more information about these and other educational courses, visit:

www.hp.com/learn

The smartest way to invest in IT

HP Financial Services provides innovative financing and financial asset management programs to help you cost-effectively acquire, manage and ultimately retire your HP solutions. For more information on these services, contact your HP sales representative or visit:

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Contact information

To find an HP Software sales office or reseller near you, visit: www.managementsoftware.hp.com/buy

HP Services

Get the most from your software investment

To extend the value of HP software for SOA, HP offers complementary SOA services to help you design, build, integrate, manage and evolve an SOA environment. As a result, you can improve your business performance with the flexibility and discipline to change and grow.

- **HP SOA Envisioning** helps large enterprises develop an understanding of SOA concepts and identify the benefits and potential effects of SOA on their enterprise.
- **HP SOA Assessment** utilizes the HP SOA Agility Assessment to help you develop a comprehensive roadmap to guide the adoption of SOA across your enterprise.
- **HP SOA Governance and Architecture** helps verify that you have the right enterprise architecture, architecture program office and the governance model to support an SOA across your enterprise.
- **HP SOA Enablement** leverages the results of the Governance and Architecture service to prepare your infrastructure for SOA implementation.
- **HP SOA Service Development** helps you define, develop and deploy an SOA-based business and IT services across your enterprise, line of business, department and project.
- **HP SOA Software Development** provides volume and scale in the development and delivery of business and IT services to help you improve productivity from your deployment teams through the use of our global software development capability.
- **HP SOA Management** helps you gain control of SOA adoption with management support that includes lifecycle management, services management, monitoring, auditing, analysis, service-level agreements and policies.

With the increased agility that SOA provides, you can more easily and cost-effectively align your IT resources for more flexible systems and applications and to help achieve your goals.

For an overview of HP Software services for SOA, visit:

www.hp.com/services/SOA

To access technical interactive support, visit Software Support Online at: www.hp.com/managementsoftware/services

To learn more about HP Software Customer Connection, a one-stop information and learning portal for software products and services, visit: www.hp.com/go/swcustomerconnection

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To learn more, visit: www.hp.com/go/soa

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