



## Application Quality Management Solution Brief



- Do your applications work?
- Do your applications perform?
- Are your applications secure?

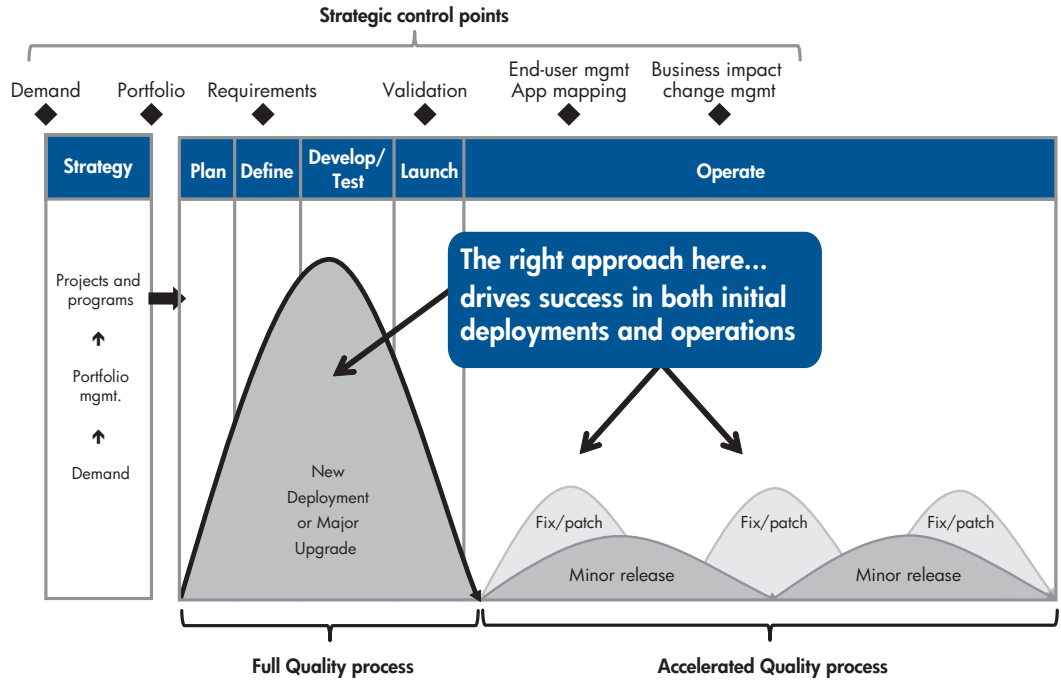
Businesses are represented by their applications and application-driven services and today, we stand on the threshold of a massive refresh of these applications. Web 2.0 based on technologies such as AJAX and Adobe® Flex™, upgrades of packaged applications like SAP and Oracle, and new application architectures, brought on by SOA are leading companies to all new application models. The expected payoff is that companies will be able to integrate and innovate their business processes and services like never before.

However, risk is higher than ever in these complex, interdependent, composite application environments and application failures can translate into business failures.

At HP we cover all the key dimensions of application quality management, which include application functionality, performance, and security—with a special focus on linking the most critical control points in the application lifecycle.

Together, HP Quality Center, HP Performance Center, and HP Application Security Center can enable you plan an end-to-end quality lifecycle for your enterprise applications, rather than just testing at the end of the development phase. This can help you drive high quality, high-performing, and more secure applications.

Figure 1. The Real application lifecycle and strategic control points



HP Quality Center manages and governs quality processes and automates software testing across your application environment. It arms you with the capabilities you need to manage the release process and make more informed release decisions.

## HP Quality Center

Combines all aspects of requirements, test planning, and defect management on a single quality platform

It may come as a surprise that many quality assurance (QA) organizations use stand-alone documents or a collection of disparate systems to keep track of quality management and testing efforts and assets. In addition, work is often slowed by manual test methods used to validate applications before they go live. Predictably, manual testing simply cannot keep up with the demand and complexity of today's multi-tiered, multi-platformed, business service-oriented applications.

The good news is that you can turn quality into a competitive advantage. By using consistent, repeatable and standardized processes, HP Quality Center can help you reduce costs and risk, improve quality, and

produce more frequent releases. It is designed to provide you with a global platform that:

- Provides real-time visibility of requirements coverage and associated defects to paint a clear picture of business risk
- Enables your organization to manage the release process and make more informed release decisions with real-time key performance indicators (KPIs) and reports
- Helps your managers measure the progress and effectiveness of quality activities
- Allows your QA teams, developers, and business analysts to collaborate in the quality lifecycle with a single global platform
- Enables your organization to centrally manage manual and automated testing assets
- Facilitates standardized testing and quality processes that boost productivity through workflows and alerts
- Allows your organization to lower costs by capturing critical defects before they reach production

## HP Performance Center

HP Performance Center helps you analyze and validate the performance of your applications against business requirements and mitigate the risk associated with application deployment and upgrades.

### The complete solution to help improve performance and scalability of applications

HP Performance Center helps you analyze and validate the performance of your applications against business requirements and mitigate the risk associated with application deployment and upgrades.

Keeping your mission-critical applications at peak performance levels as defined by business requirements can be a huge challenge. You need to be able to effectively predict system behavior and performance under realistic stress conditions. In addition, when problems or bottlenecks occur, you need a quick way to diagnose and identify root causes to fix the problem.

Look to HP Performance Center, a testing solution that enables IT staff to enhance applications based on expected load conditions. Using minimal hardware

resources, HP Performance Center lowers the cost of distributed load testing by providing a standard solution that can be managed through the web, providing 24x7 access to a shared testing infrastructure. This integrated performance validation solution emulates hundreds of thousands of concurrent users to apply simulated production workloads to virtually any client platform or environment. Powered by HP LoadRunner, a leading load testing solution, testing teams can stress an application from end to end—applying consistent, measurable, and repeatable loads—and then use the data to identify scalability issues that can impact users.

HP Performance Center can help your organization:

- Lower the cost of distributed load testing
- Reduce the risk of deploying systems that do not meet your performance requirements
- Lower hardware and software costs by accurately predicting system capacity
- Quickly and accurately pinpoint the root cause of application performance problems

HP Application Security Center software can analyze today's complex web applications built on emerging Web 2.0 technologies—delivering fast scanning capabilities, broad assessment coverage, and accurate web application scanning results.

## HP Application Security Center

### Delivers fully automated web application security testing

Traditional application security scanners perform well when discovering vulnerabilities in some of the more mature web technologies, such as Hypertext Markup Language (HTML) and Common Gateway Interface (CGI). However, they lack the intelligence required to scan emerging Web 2.0 technologies, such as AJAX, Simple Object Access Protocol (SOAP), service-oriented architecture (SOA), Rich Site Summary (RSS), and Atom, as well as more dynamic technologies, such as JavaScript and Flash. Legacy web application scanners are simply not designed to navigate and interpret today's web applications with active content, mandatory two-factor authentication, and other advancements. Simply put, traditional scanners cannot see the entire application. As a result, they fail to discover exploitable

security vulnerabilities that exist in the more dynamic and complex regions of modern web applications. This results in an unacceptable level of security risk.

In this scenario, an effective end-to-end application security testing solution such as HP Application Security Center can enable your organization to:

- Lower risks by detecting security defects early in the application software development lifecycle
- Reduce time and budget for a security risk assessment through consolidated, automated testing
- Facilitate a coordinated application security testing program across various departments in different locations
- Provide visibility into enterprise-wide application security status through pre-configured reports
- Measure the effectiveness of your security risk assessment program
- Meet legal and regulatory compliance requirements
- Support complicated sites, including those using JavaScript, flash, Web services, SOAP, or AJAX

## A complete solution

Beyond software technology and consulting services, your QA professionals need the skills to manage complex QA activities and manage their suite of enabling technologies.

HP provides a comprehensive curriculum of HP Software courses. These offerings provide the training you need to realize the full potential of your HP solutions and improve the 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](http://www.hp.com/learn)

## Contact information

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

For more information, go to:  
[www.hp.com/go/btosoftware](http://www.hp.com/go/btosoftware)

## HP Services

### Get the most from your software investment

With HP, you have access to standards-based, modular, multi-platform software coupled with global services and support, for all aspects of your software application lifecycle needs. The wide range of HP service offerings—from online self-solve support to proactive mission-critical services—enables you to choose the services that best match your business needs.

For an overview of HP software services, visit [www.managementsoftware.hp.com/service](http://www.managementsoftware.hp.com/service)

To access technical interactive support, visit Software Support Online at [www.hp.com/managementsoftware/services](http://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](http://www.hp.com/go/swcustomerconnection)

To learn more, visit [www.hp.com/go/btosoftware](http://www.hp.com/go/btosoftware)

© 2008 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

4AA1-9164ENW, April 2008



Technology for better business outcomes