

# HP Quality Center

Deliver high-quality applications at the speed of business with an integrated platform for requirements, test, and defect management

Data sheet



## Deliver enhanced business results through high-quality applications

In today's digitally powered business landscape, applications are core to any business process and ultimately to every business outcome. Organizations cannot afford to deliver a poor-quality application as the costs to the business can be severe. To prevent this outcome, organizations must ensure that their applications function and perform at the levels demanded by the business. In addition, security has come forward as a critical aspect of application quality. Applications must be secure from the risk of exploitation by hackers. Functionality, performance, and security all drive quality processes and testing methods. And, the Quality Assurance (QA) team needs a modern, automated, and integrated platform to manage and control these critical aspects to achieve IT success in implementing applications that deliver for the business. HP Quality Center is that modern quality management platform.

Too often organizations use standalone documents or a collection of disparate systems to keep track of their quality and testing efforts, including their testing assets. This can result in:

- Increased risk of deploying a poor-quality application
- A lack of consistent and repeatable processes
- No single point of truth, clear priorities, or effective communication of vital information
- Inefficient and redundant testing due to missing information
- Inadequate visibility into project progress, and status
- Many hours spent compiling reports that are immediately out of date
- QA and development not working on what the business requires

To help ensure the quality of an application by leveraging consistent, repeatable, and standardized processes, and to turn quality into a competitive advantage, thousands of organizations turn to HP Quality Center.



# HP Quality Center is the industry leader\* for quality management software designed for the challenges of today's modern application environments. HP Quality Center manages and governs your quality processes, arming you with the capabilities you need to deliver high-quality applications efficiently and effectively.

## About HP Quality Center

HP Quality Center is the market-leading\* quality management platform that scales from a single project to multiple, enterprise-wide projects and releases. It enables you to manage application quality with a consistent, repeatable process that reduces risk and costs, and increases efficiency across the entire application lifecycle.

HP Quality Center delivers requirements management, release and cycle management, test management, defects management, and reporting, all within a single platform providing traceability and visibility across your entire process—delivering the information you need to make informed application release decisions.

HP Quality Center is a Web-based solution that gives these often distributed teams access to a steel thread of critical project information. This information is the catalyst bridging the distributed teams in their related efforts to deliver high-quality applications that deliver business results—regardless of geographic and organizational boundaries, thereby facilitating communication and collaboration between business analysts, QA, and development teams.

## Key features and benefits

### Define and manage requirements

HP Quality Center provides a central repository for defining, managing, and controlling software requirements so that the business needs are met. The HP Requirements Management module provides real-time visibility of requirements coverage and associated defects to evaluate quality and business risk. Multidimensional traceability is provided between requirements, source code, tests, and defects, across releases and test cycles, providing the confidence to make “go/no-go” decisions.

HP Requirements Management allows for business process models to be imported and displayed, visually representing and communicating the defined business process flows. When requirements change, a change impact report provides visibility into the requirements and subsequent part of the business process affected, enabling you to avoid a full regression test after each change. Dispersed teams also receive prompt notification of any requirements changes that might impact the tasks they are working on.

### Align testing priorities based on risk

Organizations typically do not have unlimited resources to fully test every requirement. HP Quality Center provides risk-based quality management to objectively assess and prioritize the highest-risk, highest-priority requirements. You can then fine-tune your testing effort based on quantifiable business risk.

### Accelerate manual testing

HP Sprinter is the next generation of manual testing. Manual testing does not need to be tedious, error prone, or time consuming. HP Sprinter accelerates and revolutionizes the way manual tests are executed, automates data injection, and provides easy-to-use, built-in tools (such as screen capture and annotation, screen recorder, and system information capture) to exactly communicate results and defects. In addition, HP Sprinter supports simultaneous testing of an application across multiple machines and environments without the need for additional testers with innovative mirror testing.

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\* IDC report: “Worldwide Automated Software Quality 2009–2013 Forecast and 2008 Vendor Shares”

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### **Define test plans**

Based on the requirements, your testers can build test plans and design tests using HP Quality Center, or import them from Microsoft® Word or Excel. HP Quality Center provides a repository for both manual and automated tests (through HP Functional Testing software), including the ability to leverage HP Business Process Testing software for collaborative test design. By maintaining all test planning information in a central repository, team members can easily reuse entire test plans or individual test cases across project components and even different releases.

### **Monitor quality across releases and cycles**

The Release Management module helps you manage application releases and cycles more efficiently. You can track the progress of an application release against your plan to determine whether your release is on track, allowing informed, real-time budgetary and release decisions.

### **Schedule and run tests**

Your testing team can use the Test Lab module to run scheduled tests unattended, overnight, or when the system is in least demand. HP Quality Center supports various types of testing—functional, regression, load, unit, and integration—each with its own set of requirements, schedules, and procedures. By defining dependencies among tests, you can realistically emulate real-life business processes and make it easier to maintain and reuse the tests.

### **Track defects**

Analyzing defects and defect trends helps you make effective “go/no-go” decisions while reducing the risk to the business. The Defects Management module supports the entire defect lifecycle—from initial problem detection through fixing the defect and verifying the fix. Before any new defect is submitted, HP Quality Center checks the database for similar defects, reducing duplication and removing the need for manual checking.

### **Developer Collaboration**

It is important that requirements and defects are communicated to developers without them needing to learn and use a new, additional tool. HP Quality Center provides supported integrations into integrated development environments and source code change management systems for linking tasks, requirements, and defects. Using HP Quality Center, developer tasks and code changes are tracked against the requirements in order to track project progress and evaluate risk.

### **Use versioning and baselining**

Built into HP Quality Center, version control is provided for requirements, tests, test scripts, and business components. Versioning allows distributed

teams to collaborate and manage multiple versions of requirements and test assets in parallel, while providing an audit history of changes throughout the project lifecycle. Baselining allows you to capture a group of requirements, tests, or test assets at strategic points in the project lifecycle to mark specific milestones. You can compare baselines to assess the impact of changes and enable rollback of assets, if required.

### **Report and graph your quality process**

HP Quality Center has an integrated Dashboard module to centralize quality reporting so you can make real-time decisions based on application status across projects and QA initiatives. HP Quality Center allows report templates to be created and customized according to your organization’s needs. Reports within HP Quality Center are easily exported into Microsoft Excel, letting your end users perform endless data manipulation. The document generator within HP Quality Center allows you to push requirements, tests, defects, and their associated data to a Microsoft Word document tailored to your needs.

### **Manage your agile development and testing efforts**

The HP Quality Center Agile Accelerator is a customized HP Quality Center project designed to help manage Agile development and testing efforts. It delivers predefined workflows, configurations, and rules to manage Agile processes, along with prebuilt user roles and privileges, and Agile reporting such as burn-up, burn-down, and cross-sprint velocity charts.

## **HP Quality Center—a key element in HP Application Lifecycle Management**

HP Application Lifecycle Management software further enhances IT’s ability to manage the complete lifecycle of a software project, enterprise release, or program from inception to delivery, enabling organizations to establish best practices and common processes or move fully to a model of Application Center of Excellences. HP Application Lifecycle Management software expands the value of HP Quality Center with the following additional capabilities:

- Project planning and tracking to manage milestones and associate key performance indicators (KPIs)
- Cross-project asset sharing and reuse to remove duplication of effort
- Cross-project reporting to provide aggregated metrics and trends, giving you a holistic view
- Cross-project customization to enforce standardized processes and best practices centrally
- Cross-project defect sharing to increase developer efficiency in finding, prioritizing, and resolving defects

## Additional HP Quality Center modules

### **Bridge the quality gap between subject matter experts and quality engineers**

HP Business Process Testing brings business analysts into the process of defining business use cases and process flows to increase the accuracy of tests, aligning testing more closely to business outcomes. Using HP Business Process testing to define tests based on the defined business processes, the test engineer is able to create reusable test components using both manual and automated methods and share them with distributed quality teams within HP Quality Center.

### **Get change impact and service-oriented quality management**

The HP Service Test Management module is a complementary solution that lets your IT teams automatically create QA testing requirements and test assets for composite applications and service-oriented architecture (SOA) services, often referred to as shared services. HP Service Test Management supports change impact testing for composite applications and SOA services and integrates seamlessly with HP Application Governance software to enable policy-driven governance based on testing results.

The HP Change Impact Testing module for SAP applications is an integrated set of software, services, and best practices for automating key SAP quality activities. This module lets you improve your

applications by focusing your testing at the right time on the SAP transactions and business processes that are impacted by changes, so you can release applications with high quality and at a low level of risk.

### **Standardize security as part of your testing process**

Bring security testing earlier into the Application Lifecycle and find security risks and defects when they are less costly to fix. HP QALinspect software allows QA to incorporate fully automated Web application security testing into the overall test management process without the need for specialized security knowledge and without the risk of slowing aggressive product release schedules.

## About HP BTO Application Solutions

HP BTO Application Solutions help ensure modernization initiatives deliver business outcomes instead of failing under the burden of outdated, legacy delivery mechanisms. Where rival solutions mistake the software development lifecycle for a total picture of the application, HP sees core delivery in the context of the complete application lifecycle—from business idea through retirement. Furthermore, by providing unified management and automation solutions, HP offers customers not simply more tools and integrations but greater simplicity. The result for enterprise application teams is improved predictability, repeatability, quality, and change readiness in both the core and complete lifecycles.

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