

HP Functional Testing software

Data sheet



With HP Functional Testing you can automate functional and regression testing for every modern software application and environment, extend testing to a wider range of teams, and accelerate the testing process—so you can improve application quality and still make your market window.

Simplifies test creation and maintenance

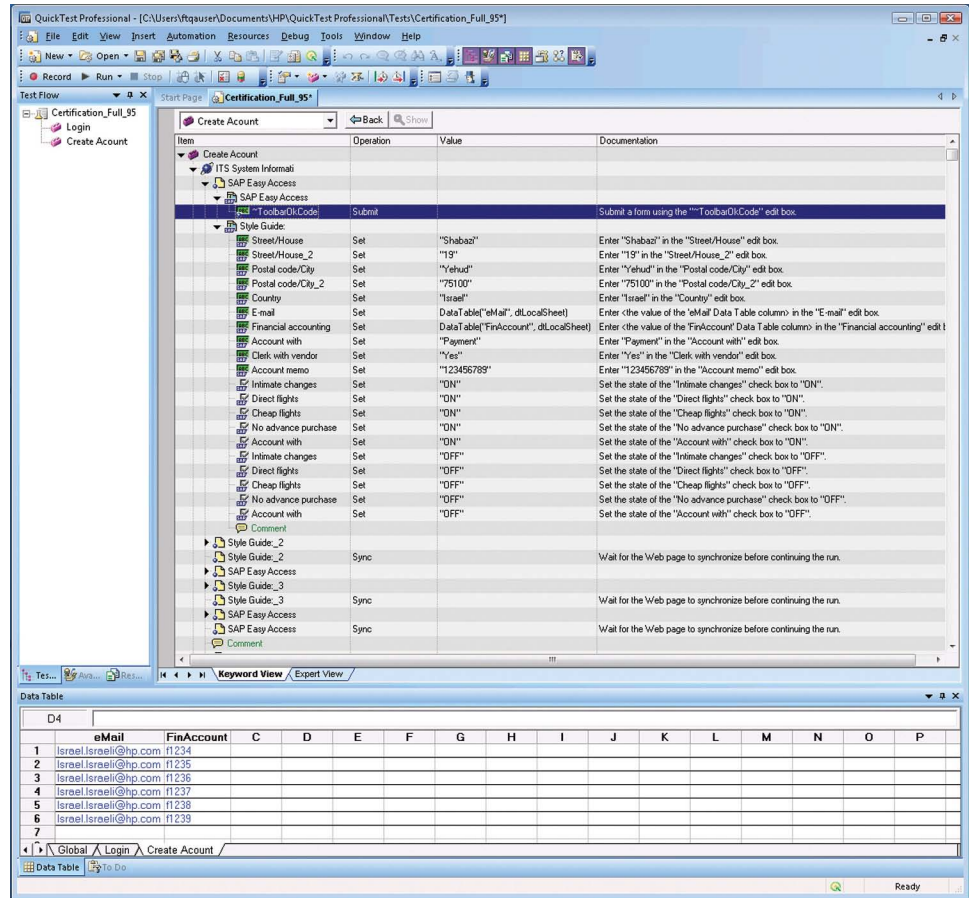
HP Functional Testing is advanced, automated testing software for building functional and regression test suites. It captures, verifies, and replays user interactions automatically and helps testers quickly identify and report on application effects, while providing sophisticated functionality for tester collaboration. The product includes HP QuickTest Professional and all of its add-ins. It is sold stand-alone or as part of the broader HP Unified Functional Testing solution, which couples HP Functional Testing with HP Service Test to address both GUI and non-GUI testing.

HP Functional Testing makes it easy to insert, modify, data-drive, and remove test steps. It features:

- **Keyword capabilities:** Using keywords, testers can build test cases by capturing flows directly from the application screens and applying robust record/replay capturing technology.
- **Automatic updating:** With new application builds, you only need to update one reference in the shared repository and the update is propagated to all referencing tests.
- **Easy data-driving:** You can quickly data-drive any object definition, method, checkpoint, and output value through the integrated data table.
- **Timely advice:** In execution mode, a pop-up wizard provides guidance on how to change the test in real time, so the execution doesn't fail where an application has changed.



Figure 1: The Keyword View in HP Functional Testing mirrors the Expert View allowing you to edit scripts from either



Expands your modern application testing capabilities

HP Functional Testing provides functional and regression test automation for every major software application and environment, including advanced Web 2.0 toolkits, leading Rich Internet Application (RIA) development technologies, Web services, enterprise resource planning (ERP) and customer relationship management (CRM) applications.

The product allows test execution on multiple browsers and comes with comprehensive support for Web 2.0 technologies such as GWT, Dojo, YUI, Silverlight, Flex, and Ajax. Testers can also provide high-level support for third-party and custom Web controls that are not supported out of the box. The Extensibility Accelerator, a separate utility included with HP Functional Testing, speeds the development of support for additional Web toolkits.

New testing capabilities for working with web-based objects include:

- Recording steps on Mozilla Firefox and using the Object property to access the Firefox DOM
- Instructing HP Functional Testing to identify a Web object in the application based on its XPath location or CSS definition

- Using the attribute /* notation to identify an object based on an event associated with a web-based object
- Using the new EmbedScript/EmbedScriptFromFile and RunScript/RunScriptFromFile functions to perform operations on, or retrieve data from, the browser pages in your application

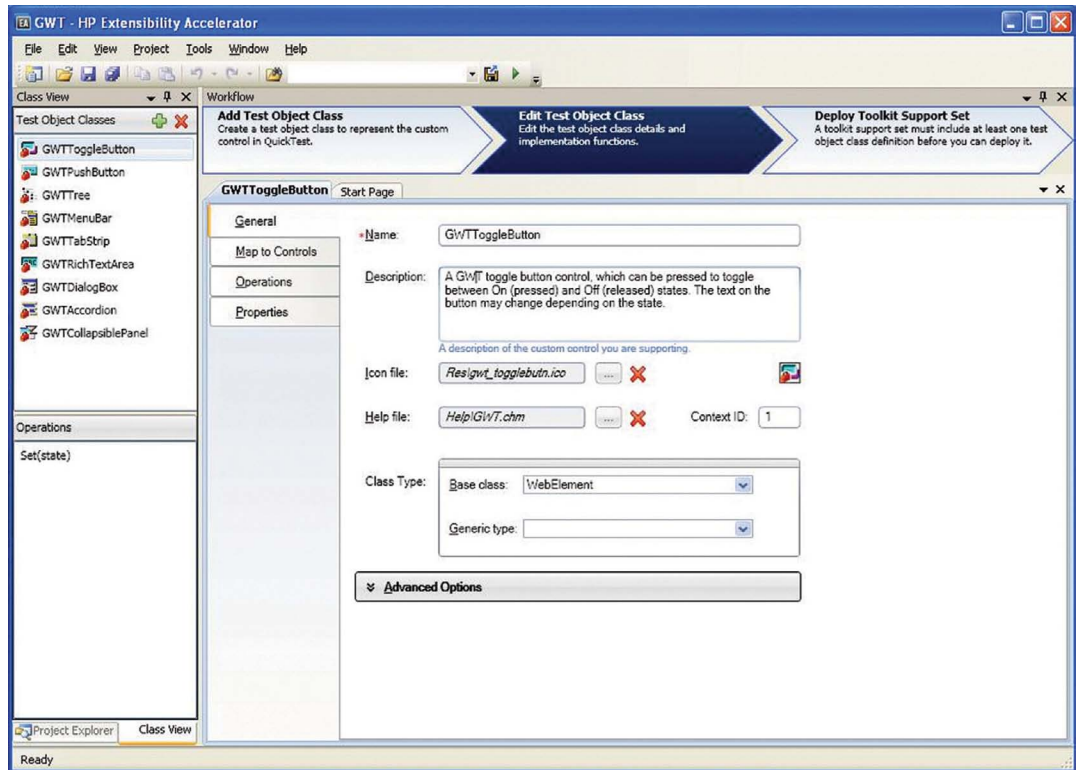
In addition, HP Functional Testing supports major applications and environments such as Oracle, SAP, Seibel, Windows® Presentation Foundation, Delphi, PowerBuilder, ASP .Net, J2EE, and more. And by upgrading to the HP Unified Functional Testing solution, you can conduct multi-layer testing for both GUI-based applications and non GUI-based components in a single test scenario.

Extends automation testing to more teams in your organization

HP Functional Testing empowers more people to create sophisticated test suites with minimal training. It supports three methods to create and maintain automated tests:

- **Keyword-driven:** The Keyword View allows business analysts to create tests with no programming and no scripting skill requirements.

Figure 2: The Extensibility Accelerator



The user simply selects the application window and object names from a dropdown list, picks an action to perform and data to use. Test plan documentation is created automatically.

- **Recording:** Testers can create test steps via an integrated recording capability, document each step in simple language, and view an integrated screenshot through the Active Screen feature.
- **Scripting:** Power users have full access to the underlying test and object properties through an integrated scripting and debugging environment that is synchronized with the Keyword View.

New and inexperienced testers can take advantage of built-in processes to guide the creation of meaningful and robust tests; and you can customize the guidance to fit with your processes. For example, you can manage how tests are created, enforce standardized file locations, and implement consistent review processes.

Collaborate across workgroups

HP Functional Testing is specifically designed for collaboration across tester workgroups.

- The XML-based Object Repository Manager lets users collaborate and share application object definitions, and keeps object-level changes synchronized throughout test creation efforts.
- Users can share function libraries, application asset definitions, and data-driven spreadsheets.
- Multiple object repositories are managed with ease to facilitate building automated frameworks and libraries.

- New log tracking functionality helps you work with developers to pinpoint the cause of unexpected behavior in your Windows-based application.

Role-based reporting

HP Functional Testing provides reports that extend to a broad audience of users and stakeholders. Results are displayed in a set of flexible panes that allow users to customize the view for their particular needs, and all reports can be exported to PDF, HTML, and Microsoft® Word documents. Reports include:

- A high-level summary, with multi-level detailed views including pie charts and statistics for both the current and previous runs, a quick link to the previous run results, and more.
- The option to customize reports with user-defined images and screenshots to facilitate error reproduction.
- A recovery capability for corrupted reports that saves rerun time due to corrupted report files.
- The ability to include client performance-related errors (example, memory leakage) and link directly from the report to the related test script.

Key features and benefits

- Comprehensive Web 2.0 and RIA support with easy extension to additional technologies and toolkits.
- Keyword-driven technology for faster test creation, easier maintenance, and more powerful data-driving.
- Fast, easy access to meta test data such as test flow, actions, and test assets.

- Smart object recognition for reliable and unattended script execution.
- Objects identified visually based on their location to nearby objects enabling reliable identification.
- Ability to create consistent, repeatable, standardized testing practices and shareable assets across teams.
- Ability to handle unforeseen application events facilitates 24x7 testing.
- Automatic defect reproduction and problem identification reduces time to resolve defects.
- Single-step test creation and test documentation increases productivity.
- Time-saving interface manages test checkpoints and output objects, as well as share object repositories.
- Quick test panes make test asset information more visible and easy to access.
- Rapid defect isolation and diagnosis with integrated reports.
- Unicode support for multi-lingual application testing.

Complements other HP Software solutions

HP Functional Testing software is fully integrated with other world-class solutions from HP Software, giving you access to a comprehensive range of capabilities throughout the application lifecycle.

Complete test management with HP Quality Center

HP Quality Center provides a centralized, web-based location for complete test management, from requirements through tests to defects, with real-time traceability and analysis.

The software allows users to manage, link and trace test assets to a test within HP Quality Center, to share test assets across functional tests, version and baseline tests, compare versions of the same asset, and trace re-usability of test assets including change impact traceability. You can also collaborate among workgroups with shared function libraries, robust object management, and flexible asset storage within HP Quality Center.

HP Quality Center test configuration functionality unbinds data from tests allowing users to share common data sources across tests, filter data to fit testing needs and increase requirements traceability; you can easily increase requirements coverage and traceability by filtering data sets according to test requirements and allow reporting on the iteration level.

Combine automated and manual testing with HP Business Process Testing

Combining HP Functional Testing with HP Business Process Testing software provides functional test case design for both automated and manual testing. HP enables non-technical subject-matter experts (SMEs) to be an integral part of the quality optimization process by:

- Automating the creation of test plans and streamlining test maintenance for application change.
- Reducing the overhead of automated test maintenance and combining test automation and documentation into a single effort.
- Letting SMEs and business managers measure the quality of application deliverables from abstract business definitions defined within the HP Business Process Testing framework.

About HP BTO Application Solutions

HP's 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 lifecycle.

To discover how you can capture, verify, and replay user interactions automatically with HP Functional Testing, visit www.hp.com/go/functionaltesting

Connect with peers and HP software experts at: www.hp.com/go/swcommunity

Share with colleagues



Get connected

www.hp.com/go/getconnected

Current HP driver, support, and security alerts delivered directly to your desktop

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