



Original Software

Delivering Quality Through Innovation

Overview

What is TestSmart:

A powerful solution that automates the creation of optimised variable data, for more precise and productive testing.

Features:

- Automatic creation of test data.
- Easy importing of data that already exists in a spreadsheet.
- Definition of business rules & requirements.
- Rules then applied to the data.
- Data checked to ensure coverage of all business rules.
- TestSmart calculates every possible data combination that fits the rules.
- TestSmart scientifically reduces the number of combinations to the minimum that will still test the application most accurately using a pairwise algorithm.
- Output = optimised variable data for automated testing.

Benefits:

- Improved quality/relevance of test data.
- By covering the maximum number of scenarios, the maximum number of defects will be uncovered, leading to the highest possible quality at the end of the test process.
- Test data is created more quickly, saving resources.
- Test cases will be created objectively and consistently.
- Covering every optimised scenario means that more defects are found, earlier. This means that they are cheaper to repair.
- Variable data can be used with TestDrive for all types of user interface testing.



The Automated Creation of Optimised Variable Data

With Variable Data, a test script can be populated with different data on each test run, meaning that many different business scenarios can be tested with just the one script. This is clearly much easier than building and maintaining dozens or even hundreds of separate scripts.

But now Variable Data has been taken to the next level. Our Solution, TestSmart, employs an algorithm called *Pairwise* that can automatically produce *optimised* Variable Data. Optimised Variable Data ensures that test data covers every essential combination according to rules that you define.

This means that the maximum number of business scenarios can be replicated with the minimum amount of test data, so it automatically ensures that your application is tested efficiently yet thoroughly. If you had 10 testers write test cases for your application, you would get 10 different sets of test cases. With TestSmart, you always get one set—the most accurate.

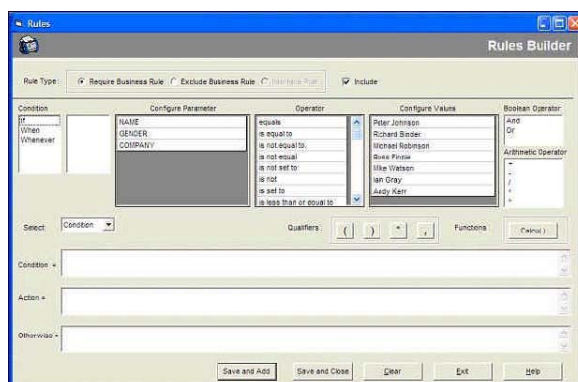
TestSmart takes information about the application under test (such as field name and object content), then applies details of how the application is supposed to behave, (in the form of business rules and requirements). It then automatically builds an optimised set of Variable Data, designed to cover the maximum number of possible scenarios with the minimum amount of data and number of test cases. This guarantees that the application is tested in every conceivable scenario, thereby uncovering more defects and increasing software quality.

Easily update test cases:

Implementation changes? Requirements changes? Need to add a parameter or value? Simply modify the test input and your test cases are updated.

Embeds requirements in the test data:

Requirements and Business rules can be entered in simple English prose format. These rules can then be selectively applied to the test set thereby forcing or excluding.



TestSmart user interface

About Original Software



With a world class record of innovation, Original Software offers a solution focused completely on the goal of effective quality management. By embracing the full spectrum of Application Quality Management across a wide range of applications and environments, the company partners with customers and helps make quality a business imperative. Solutions include a quality management platform, manual testing, full test automation and test data management, all delivered with the control of business risk, cost, time and resources in mind.

More than 400 organisations operating in over 30 countries use Original Software solutions. Current users range from major multi-nationals to small software development shops, encompassing a wide range of industries, sectors and sizes. We are proud of our partnerships with the likes of Coca-Cola, HSBC, Unilever, FedEx, Pfizer, DHL and many others.



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