



C A S E S T U D Y

T-GRID™ AQ



A U T O M A T E D Q U A L I T Y

AUTOMATED REGRESSION TESTS PRICING ENGINE FINANCIAL INSTITUTION

Overview

The replacement of the pricing engine* could only be carried out successfully with the testing of over 28,000 test cases. **A GUI was not available. How could it have been possible to test it efficiently and effectively?**

The old pricing engine of a large Swiss financial institution had to be replaced by a new version. Over **28,000 regression tests** were required to ensure that this new engine provided the same results as the old one. These regression tests had to ensure that all functions of the new engine produced results that were virtually identical to the old engine. It was estimated that the manual work required for these tests would take more than 6 months, and would only be achievable with the help of qualified personnel. Both – time and personnel – were not available. The customer made the decision that the tests should be automated. After analyzing various providers, the customer chose T-GRID.

Because of T-GRID the financial institution was able to:

- › dispense entirely with manual tests.
- › automate these regression tests without programming, with a direct connection to the interfaces.
- › increase the quality of their applications to such an extent that they continue to prefer T-GRID.

We are pleased to provide details of this case study, and explain how this customer was able to achieve sustained added value thanks to T-GRID.

Contact us today!

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*The pricing engine is used to calculate the prices of the various exchange rates in this financial institution. In turn, a wide range of influencing factors must be taken into account for these calculations, such as: currency pairings, customers, country of origin, exact time of the market data as supplied by the Reuters Market Data System (RMDS), and others.

S O L I D A U T O M A T I O N P A Y S



CASE STUDY

AUTOMATED REGRESSION TESTS PRICING ENGINE FINANCIAL INSTITUTION

The Problem

The old pricing engine had to be replaced by a new version. The financial institution had to ensure that all functions of the new engine produced results that were virtually identical to the old engine. It was necessary to check more than 28,000 test cases to provide this verification.

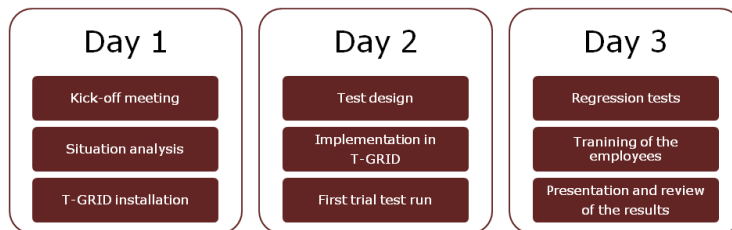
Manual testing would have taken several months. Existing tools would not work for these regression tests because a GUI was not available. The development of a custom automation framework was out of the question. What could be done?

The T-GRID decision

The decision-makers were on the lookout for various tool providers. T-GRID quickly attracted their attention. The reason: T-GRID did not depend on a GUI, and e3 had promised to automate these regression tests using T-GRID in a matter of days. After this promise, the IT manager made a decision: "Sounds good, let's try it!"

The PoC (proof of concept)

e3 accepted this challenge and kept its promise with a three-day PoC. Here, they adhered to the following sequence of events:



Customer benefit

In less than a week, the customer had a scalable test automation solution in operation. Because of this solution, it was possible to execute several fully automated test runs. With a total of 82,000 test cases which were checked by this, a verifiable improvement in quality was achieved, combined with enormous cost savings. Thanks to this effectiveness and efficiency, T-GRID is now used at every new release to continue to provide this quality control into the future.

Increased efficiency

The following graph illustrates the progress of these tests. The work for installation and test design was also taken into account in the ROI calculation, and compared to manual testing. After 5 test runs, over 82,000 test cases had been automatically checked and an ROI of over 91% thereby achieved.

