

QA Testing in SimCorp

How Dimensional Community Automated Testing for a US Asset Owner (AUM \$95bn)



Groundhog Day

The customer had been using SimCorp for several years and had continuously struggled to test and quality assure SimCorp Dimension for their upgrades, patches and configuration changes.

The test scripts they had was outdated and only covered a small part of their current operation, not to mention that the test data old and often did not fit how the configuration was setup today.

Promotion of any changes and upgrades often took over 6 months resulting in long delays promoting new features for the business and a long period where no new development or configuration could take place by the support team – simply because they where busy testing.

A New Beginning

We started by reviewing the clients test scripts and updated them to be more generic and flexible on test data. At the same time, we applied Dimensional Community's standard set of test scripts to accelerate testing and fill in the gaps at the client.

Next, we set out to automate test cases. Two environments was setup: one for testing (with changes) and one for control (no changes). Test data was imported into SimCorp, including mock adjustments normally made in the productive environment. Then daily and overnight processing was executed including calculations. The resulting data was exported from both the test and control environments and reconciled. All above was done 100% automatically.

The quality assurance process was split into two parts:

- **Functional testing**, testing new features and regression. DC covered functional requirements with 500+ test cases.
- **Integration testing**, testing SimCorp integration with external systems

In close cooperation with the customers team, we designed and implemented a QA pipeline and introduced continuous testing into it. This helped verify configuration changes and new features even more quickly and efficiently while not compromising on quality.

DC Accelerators

DC's accelerators has provided an automated QA framework that enabled the client to onboard new features in weeks rather than months.

Faster testing has allowed the client to promote changes faster, do upgrades fast (the part not covered by SimCorp V&T) and even apply patches – something that was out of question previously. Researching and solving breaks is made easier in the process as it proposes reasons for the break.



3 wks
Upgrade



100%
Automation



500+
Test cases



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Improving Solutions

We understand the importance of being unified and driven to collectively succeed

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