

## The Challenge

The project's system development consists of numerous individual applications. They have been developed with various technologies (Java, C++, C#) and use various toolkits (Swing, QT, Forms). In addition, there are additional interfaces to databases, signal generators and the power control infrastructure. When searching for a solution, a cost-and-benefit analysis for expecco was selected.

## The Expectations

With expecco, the complex system sequences (use cases) are supposed to be tested in an automated fashion. Moreover, the option of implementing functional regression tests is supposed to be created and the quality of the software releases is supposed to be improved. The expenditures in this regard are supposed to be kept to a manageable scope and, at the same time, the degree of automation is supposed to be increased.

- Automated start of the infrastructure through power ON
- Monitoring the complete system start-up
- Registration of various users at the work stations
- Operating various GUIs at the remote work station
- Readjustment and examination of standard system workflows
- Automated, comprehensible documentation of the trial runs
- Acceptance tests on-site during commissioning
- Establishment of endurance and stress tests

## The Solution

expecco supports many of the required interfaces of the system. Thus, even the complex use cases can be tested in a completely automated fashion as well as functional regression tests of individual components. Overall, up to now, 50% of the test cases have been automated whereby the expenditures for the automation are minimal for very fast usage. When customers make acceptance, expecco is used as the trust-building measure because the test automation tool was also used for the configuration of the customer's work stations.

## Conclusion:

*"After only a two-week familiarisation phase, the system was established at our company. Through the very good cooperation with eXept and an outstanding introduction, using the software was no problem and the expectations were absolutely fulfilled. Thus, the software is a good solution for responding to shorter product life cycles and increasing the degree of automation".*

Artur Wohlfrom, Project Manager