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CUSTOMER STORY – PUBLIC SECTOR

# Bundeswehr Information Technology Centre (IT-ZentrumBw)

Testing for the case of an emergency

## Background

The Bundeswehr's Information Technology Centre (IT-ZentrumBw) in Euskirchen reports to the Bundeswehr's Federal Information Management and Information Technology Office (IT-AmtBw), the German armed forces' procurement agency based in Koblenz. The Information Technology Centre's specialist groups are mainly responsible for IT security, system integration, as well as project and IT support.

## Challenge

Since 2006 there has been a testing and evaluation centre for the Bundeswehr's simulation and testing environment (TAZ SuTBw) at the Information Technology Centre. It evolved from the Overall System Testing Department 21, founded in 2004. This unit's main tasks include simulation to map and

connect virtual and physical reality. In the process it tests the serviceability of operational concepts and of the software developed. In addition, it supports analysis, planning and assessment of demand in IT projects.

Systematic test management and analytical quality assurance of the software and systems required for the Bundeswehr's many and varied uses are therefore indispensable.

The need to set up a separate IT environment for systematic testing resulted in part from the strict requirements that Bundeswehr administrations and public sector institutions must fulfil. "V-Modell XT" for public sector software and system development projects is a standard procedure that applies from project approval to handover. In addition, procurement must fulfil the provisions of Customer Product Management (CPM), which requires performance assessments and acceptance tests.

## Solution

To implement system testing as required and to set up a testing platform, the TAZ SuTBw unit had to develop specialised know-how and adopt software tools for test and quality management. In the SuTBw environment the Bundeswehr's Federal Information Management and Information Technology Office (IT-AmtBw) and the Information Technology Centre (IT-ZentrumBw) cooperate with SQS Software Quality Systems, which specialises in testing and quality management.

In detail, SQS helped set up a testing platform at the TAZ SuTBw by means of the following measures:

- Training TAZ SuTBw personnel in the methodological and systematic implementation of testing procedures
- Introduction of best practices in testing and quality management
- Development of competences by means of systematic coaching so that after training by external SQS specialists, TAZ SuTBw staff can perform their testing and quality management tasks independently
- Integration of all tools, including tools developed in-house at TAZ SuTBw and third-party tools, via the SQS-TEST®/Professional suite of tools
- Mapping of automated testing processes by the SQS-TEST®/Professional workbench
- Setting up a control centre/cockpit for software quality management and testing

## Benefits for the Customer

- SQS-TEST®/Professional ensures automated testing processes and regular reports and evaluation.
- Different users, such as project managers, quality managers and testers, set the respective parameters by means of which they retrieve findings and key performance indicators via the test process that is under way.
- The SQS-TEST®/Professional dashboard collects, groups and weights test results in reports that deliver objectively established figures and ensure greater transparency and control.
- The system quality is sufficiently robust for further expansion and the tools used can be integrated and expanded.
- The test environment makes traceability possible from initial requirements to test implementation and documentation and, in the future, for change management too.

### Contact

If you are interested in SQS' service offering regarding testing and quality management for the Public Sector, please do not hesitate to send us an e-mail: [info@sqs.com](mailto:info@sqs.com)