

Project Note

Test management during the relocation of air traffic control

Zühlke implemented the concept of risk-based testing and thus contributed significantly to the successful relocation of air traffic control. Complying with all the security requirements and not interrupting flight operations were important.

Task

The Swiss air traffic control skyguide has moved from the Kloten site to Wangen near Dübendorf. This meant that about 40 IT systems for radar, radio, telephone and flight plan processing as well as the operational workplaces of air traffic controllers had to work perfectly at the new site straightaway. According to skyguide this was altogether one of the largest, most complex projects in the history of air traffic control in Switzerland. At the new site skyguide commissioned the parallel systems over several migration phases without compromising flight operations or their safety. Zühlke's task was to implement a concept of risk-based testing and check the newly installed systems. The accompanying documentation was to form an important basis for the regulator's consent to the whole relocation.

Implementation

Experienced specialists from Zühlke dealt with the practical implementation of the test concept. They trained project managers to work with the test concept and the support materials produced for it, incorporating suggestions from team members on how to optimise the test procedures. Zühlke supported and coached project managers and their staff in compiling test documents (test plan, test design, test cases and test reports). Zühlke's test manager was responsible for reviewing and releasing the documents. Test plans and test reports were an important component for checking the safety requirements specified for all systems. The program management received statistics on all the test activities in the form of periodic reports.



Customer benefits

- **System safety:** Thanks to Zühlke's experience in risk-based testing and test management the tests were structured and targeted. An important contribution to correct, punctual migration.
- **Staff assurance:** Customers benefited from experienced trainers and coaches during training and the implementation of the test concept.
- **Assurance for the authorities:** The comprehensive test documentation met the requirements of the regulatory bodies.

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