



GOOD PRACTICE

T-GRID™ IA



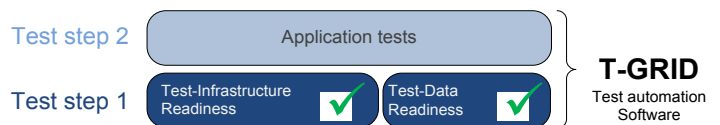
INTEGRATED AUTOMATION

EFFICIENT AVAILABILITY OF THE TEST-INFRASTRUCTURE

«THE FIRST TEST CASE IS ALWAYS TO CHECK THE AVAILABILITY OF THE INFRASTRUCTURE, SYSTEMS AND INTERFACES AS WELL AS THE AVAILABILITY OF ALL THE TEST DATA »

A HIGH LEVEL OF AVAILABILITY OF THE TEST SYSTEMS AND TEST DATA AS A BASIS FOR CARRYING OUT THE ACTUAL TEST CASES, IS VERY TIME AND COST INTENSIVE FOR EVERY UNDERTAKING.

PROCESSES WHICH CAN BE AUTOMATED TO CONTROL THE INFRASTRUCTURE CAN BE IMPLEMENTED RAPIDLY USING THE TWO-STEP TEST PROCEDURE OF E3 BASED ON THE AUTOMATING SOFTWARE, T-GRID. IN DOING SO THREE CHALLENGES MUST BE OVERCOME.



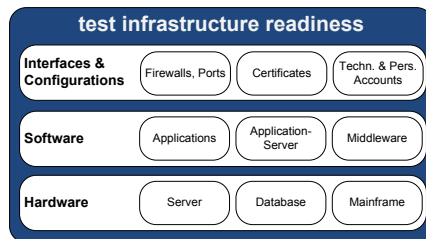
Two step test procedure with T-GRID



A LARGE SWISS COMPANY ESTIMATES THE COSTS INCURRED THROUGH THE FAILURE OF TEST ENVIRONMENTS AS 50 FTE OF DOWNTIME PER YEAR

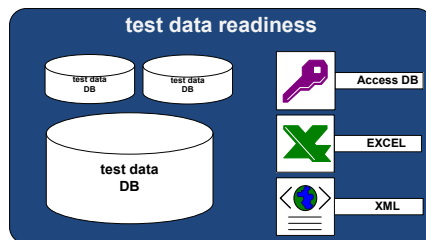
Challenge 1: unavailable environment

If test infrastructures are not, or are only partially, available, then the total costs for specialist and applicatory testing increase rapidly. Not least because test resources cannot be used as planned, or because any release delays have a negative effect on productive operations.



Infrastructure readiness needs to be ensured on all levels

Only by providing the availability of technical interfaces, firewalls, open ports, available configurations etc. is the basis laid for actual testing. If a component fails, it will not be possible to carry out a specialist test in the worst case scenario.



Test data readiness as well as pre- and post-processing of test data

Challenge 2: unavailable test data

Two aspects are critical when providing test data: the data must be available and the data must be up-to-date. The various receptacles for test data must therefore be supplied on time by the various specialist divisions on a regular basis. Test data are usually distributed on various media within the undertaking.

It is also possible to save a lot of downtime in the overall process with a successful, operational and ideally automated test data management system. Test data readiness includes activities such as automated provision of data, post- as well as pre-processing of test data, archiving or test data.

Challenge 3: Manual triggering of actions

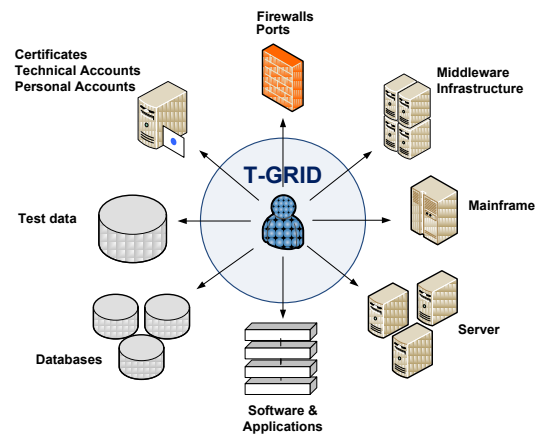
For medium and large undertakings the organization of the test data infrastructure is usually associated with a huge level of expenditure and it is only in very few cases that it is automated.

A high degree of automation, particularly for activities for test-infrastructure readiness, such as

starting and stopping of servers, checking access to systems or the availability of accounts etc. as well as test data readiness, can minimize the expenditure for carrying out specialist tests.

Solution: T-GRID Integrated Automation (IA)

e3 has developed a solution, which is not only able to cover test automation of specialist tests (test step 2), but also makes it possible through step 1 of the test, to ensure the readiness of the infrastructure as well as the test data. On the basis of



With T-GRID it is easy to automate and improve readiness efficiency.

the T-GRID framework, it is easy to incorporate flexible agent plans by means of pre-defined adapter systems, applications as well as interfaces, which run on Windows, Unix (SUN, AIX, Linux) and Mainframe.

The availability of test data can be easily automated, including the time-consuming pre- and post-processing activities on data bases.

Configuration takes place in the central T-GRID GUI, which enables the tests to be captured as test trees and saves them for regression tests.

Actions can be provided for every test case, which are retrieved in the event of an error (restarting of servers and databases, deletion of old test data, collection of test data, starting of scripts etc.)

With T-GRID it is easy to automate and improve readiness efficiency.

Target persons for the use of T-GRID

- › Persons responsible for infrastructure
- › Persons responsible for data
- › Managers of the test factory
- › Persons responsible for operations
- › EDP operators
- › Test managers