



## Test Strategy – Essentials to Deliver Quality Solutions

### Test strategy

In all projects, no matter what kind they are, there will be at some point a test phase. Whatever a project creates or delivers, at a certain point in time it will be tested. Testing stands for comparing the initials goals and functional designs of the project with the end product.

As everyone knows, testing is a part of the project that is often kept till the very end. Of course the project has to be in a certain state before any testing is valuable. However this doesn't mean that there mustn't be thought of testing in advance. Important is that already from the start of the project, testing is taken under consideration.

The following list describes what must be done in advance for the test phase to be successful:

- Making decisions about who will be involved in the test phase
- Making a test strategy document about how the test phase will look like
- Comparing functional designs to their testability
- Making test cases according to the functional designs and the special situations named during the project
- ...

### T-Map

For structured testing, Ferranti concentrates on the "Test Management Approach" (TMap®). This methodology describes how structured testing can help to find a solution for the challenge of every test project: "To be able to test as much in lesser time".

Pro's of structured testing are:

- Reusability in every situation
- Giving insight and advice of risks concerning quality
- Finding bugs in an earlier stage of the project
- Reusable testcases
- Test phase under control
- ...

The TMap approach distincts 5 key phases during testing:

- Planning and control
- Preparation
- Specification
- Execution
- Evaluation

### V-model

As to bring development and verification in balance, the V-model is used. A software project, for example, is divided in different phases. Each phase will be the base for the next phase.

As result of these different phases in a project, it is important that each phase will be tested. For each phase of the project according testing and test cases will have to be developed and executed. As the project evolves during the phases the thrust in the system will be build up.

**SMART**

Important during testing and structured test approach is that all specifications, testing, test cases have to be SMART:

- Specific
- Measurable
- Acceptable
- Realistic
- Time related

In order to make those questions during the test process, from the beginning till the end, chances on better results are enlarged. While considering those five topics the expected results for testing will be very well specified.

**Synthesis**

Ferranti focuses on a structured test approach of these projects. The text above describes how this is done. What test strategy is concerned: from the very start of a project the test phase must be taken under consideration in order to deliver a quality driven product. That's what we try to establish in all our projects.