



## Test project

**The objective of Qentinel's Test Project service is to plan and execute the testing of the customer's software development project or part of it.**

Testing is an integral part of software development. Its objective is to ensure that the software or the system corresponds to both existing and tacit quality requirements. Cost-efficient testing as a part of the development process necessitates special skills in and in-depth understanding of matters such as:

- Moment of involvement
- Test design techniques and coverage analysis and estimation
- Test tools and their efficient application
- Integration processes between testing and development
- Interpretation and reporting of test results

### Service description

In the Test Project service, Qentinel's testing specialists participate in the system or software development or deployment project, typically by taking responsibility over integration, system and acceptance testing. The customer's processes and tools are applied to the project and, if needed, project-specific adjustments and enhancements are implemented. The main phases of a test project are:

**Test planning and management** – Planning, management and follow-up of testing. This stage also involves the selection of test strategies, and the risk management from the viewpoint of testing and quality assurance.

**Planning and management of test environment** – Planning and deployment of test management and testing environment, including testing architecture, test material, tools and appropriate software. This stage also ensures the efficiency of the build and defect management processes in the interface between development and testing.

**Specification of test cases and test set up** – Design of test cases and material and implementation of test cases, either manual, automatic or both. In the design and focusing of tests, different test strategy-specific techniques and priorities are integrated with the knowledge and source material of the domain area and its interest groups.



**Test execution and reporting** – Planned tests are usually executed using iterative builds, integrated sub-systems or full systems. Test results are analyzed and reported, and fixed errors are re-tested. Up-to-date information about the state and scope of the testing and the quality level of the software is provided to the test management and thus to the entire project and its interest groups.



## Service Benefits

**Competence and experience** – The quality assurance knowledge of Qentinel’s testing specialists and extensive experience in the IT industry enable rapid adoption of the domain area, effective deployment of the test project and the focusing of testing on essential target areas.

**Independence** – Qentinel is independent from the customer’s internal software developers and external suppliers, which allows objective execution of, for instance, acceptance tests between the customer and the supplier.

**Workload balancing** – Qentinel can take responsibility over the entire testing or part of it, or cover individual sub-areas of testing.

## Service Delivery

Qentinel’s services are delivered in accordance with the established delivery practice, which includes the following aspects:

- Clear definition of objectives and responsibilities at the project establishment phase.
- Specific contact persons in the Qentinel’s testing and customer management teams.
- Qentinel’s technical support for the allocated test team.
- Regular project follow-up and reporting to the customer, and customer satisfaction inquiry.
- Proactive operation and problem solving as the test project proceeds.
- Project summary in the final report, which, among other things, pays attention to factors contributing to the project’s success and development areas

## CUSTOMER INPUTS

### DOMAIN KNOWLEDGE

#### SOURCE MATERIAL

- requirements
- other development documentation

#### THE SUBJECT OF TESTING

- software builds
- materials for reviews



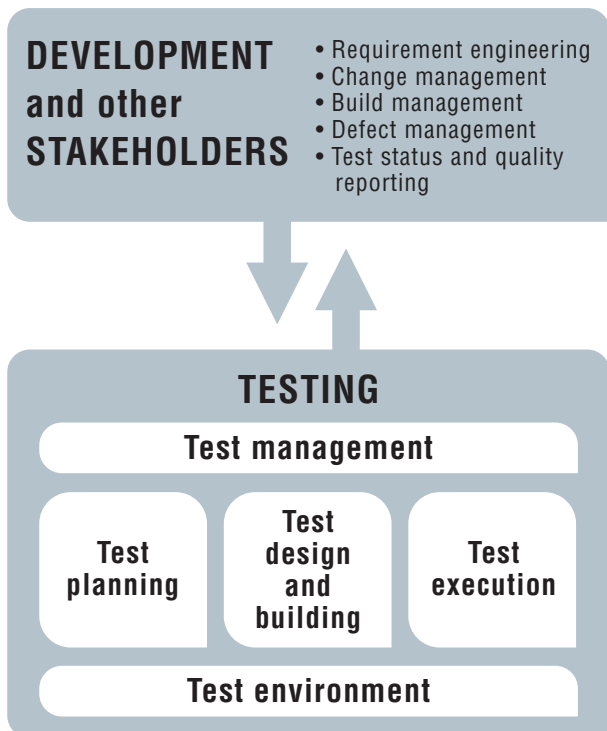
### TESTING TEAM



## TEST OUTCOMES

- Test plans and strategies
- Test cases
- Test runs and results
- Test reports
- Defects
- Progress reports
- Final report

DISTRIBUTION OF WORK BETWEEN THE CUSTOMER AND QENTINEL



TESTING AND TYPICAL INTERFACES TO SOFTWARE DEVELOPMENT

## Qentinel

Qentinel is a leading Finnish provider of software quality assurance services. We help our customers in software quality assurance and testing, ranging from test planning and management to implementation and automation of testing. Our customers are organizations for whom the quality of their software and IT systems is an important success factor.

For further information on our services, please visit our web site.

## Contact information

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