

Solutions 4 Test

Product description

1.1 The Purpose, Users and Benefits

The application *Solution 4 Test* is an advanced tool for Test Management that can be used in the framework of the *Portal 4 Solutions* or as a standalone application using the technology module *Engine 4 Processes*. It is recommended to use the Application in cooperation with the *Solution 4 Incidents* application dedicated for management, reporting and tracking of incidents founded during testing.

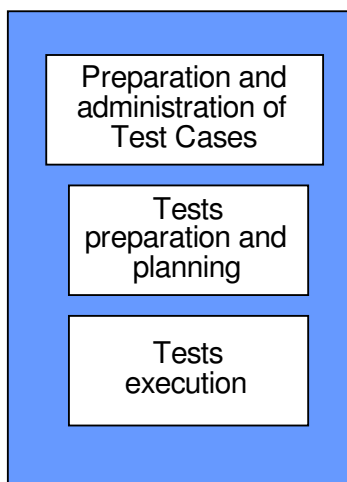
The purpose of testing is to evaluate the compliance of the tested object with the specifications or desired functionality. The test management represents a set of complex processes of using individual tests, testing routines, and procedures with the use of available resources to reach the test's objectives effectively and in good time.

The subjects of the tests may be various objects of a material or intangible nature from very simple products from a simple screwdriver to as complex product as an aircraft. Information systems represents the majority of intangible objects subjected to tests. It is not software only but any existing or new organizational structure or change.

The users of the *Solution 4 Test* are all employees participating in the test processing – planning, executing, monitoring and reporting of tests.

Any employee can participate on execution of defined tasks without the necessity of understanding the whole process or necessity of acquiring of information from various information sources. The architecture of the application facilitates the effective distribution of partial tasks to a broad group of specialists in various fields contributing to testing within their specialization. The management obtains a complex overview on the status of tests which are in planning or are running.

Application Test Management



The analytic possibilities are enhanced by the extending module *Reporting and Analysis*.

The complex of processes defined and implemented in the module *Solution 4 Test* concentrates the knowledge of our company on test management process. It is universal in the maximum extent possible to enable to support the broadest extent of processes in the user company. The technology facilitates a flexible implementation of changes and requirements or processes specific for the user and user interface as well.

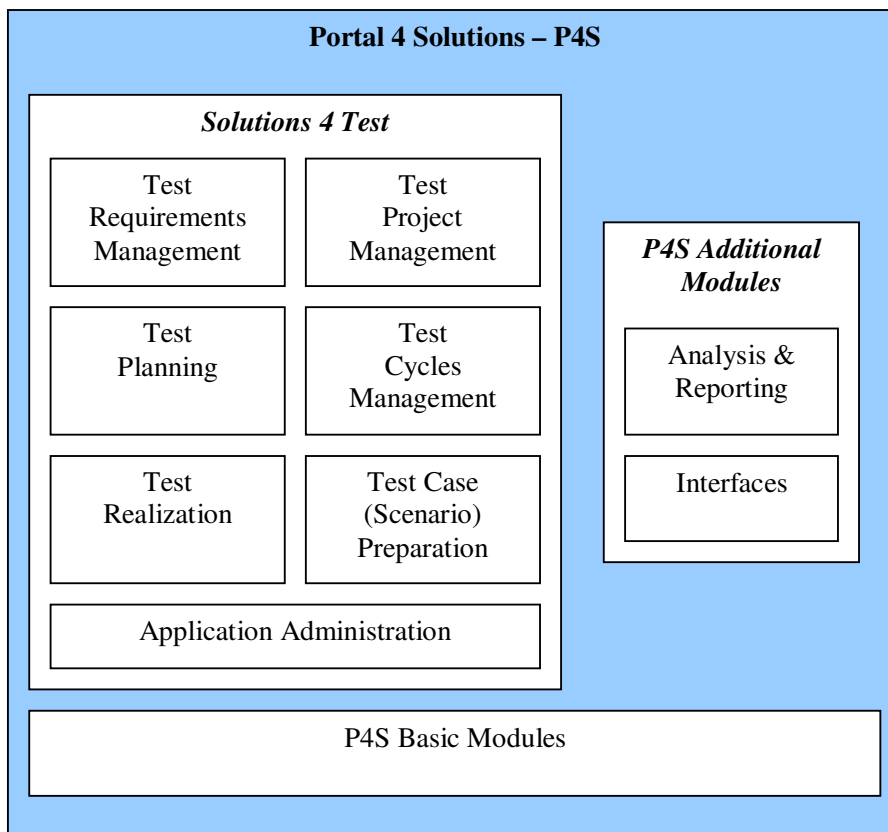
The benefits of *Solution 4 Test* as support of the incident management for the user are as follows:

- A) Implementation of an unified information support of the test management that leads to standardization of the test management process in an organization,
- B) Increase of the quality and transparency in the field of the test management in the company,
- C) Improvement in the monitoring of tests status.
- D) Accessibility to actual status of tests running in the projects.
- E) Accessibility to processes application support through a web interface also for other co-operating companies (e.g. outsourced testers).

1.2 The Structure of the Application

The functions of *Solution 4 Test* are implemented into submodules as follows:

1. Test Requirements Management
2. Test Project Management
3. Test Planning
4. Test Cycles Management
5. Test Realization
6. Test Case (Scenario) Preparation
7. Application Administration



The submodules follow the logical structure of functionalities. The hierarchical structure of particular functionalities allows easy selection and implementation of processes according to actual customers needs and constraints.

To extend the capabilities of *Solution 4 Test*, it is recommended to add the following additional modules:

- A) Analysis & Reporting
- B) Interfaces

1.2.1 Test Requirements Management

Contains functionality related to management of Test Requirements.

- a) Define Test Requirement
- b) Administration test requirements

1.2.2 Test Project Management

Contains functionality related to management of Test Project Management.

- a) Define Test Projects
- b) Start and close Test Project
- c) Central view to planned and running Test Projects

1.2.3 Test Planning

Contains functionality related to planning of the tests:

- a) Plan schedule of tests
- b) Define people (roles) for test activities

1.2.4 Test Cycles Management

Comprises functionality related to the Test Cycles:

- a) Define Test Cycles
- b) Start and close Test Cycle

1.2.5 Test Realization

Contains functionality related to reporting status and result of tests:

- a) Report status of Test case testing
- b) Central view to tests reports (status of testing all test cases/scenarios)

1.2.6 Test Case (Scenario) Preparation

Contains functionality related to preparation of Test Cases & Scenarios and their management:

- a) Define and change Test Cases
- b) Define and change Test Scenarios

1.2.7 Application Administration

The sub-module provides functionality related to administration, setting of static data, user roles and other parameters used by the application.

- a) Administration of the implemented processes – amendment, change of definitions and attributes of processes.
- b) Administration of access rights to particular functionalities and data.
- c) Administration of static data

1.3 Additional Modules

The following modules are optional as components of the information system *Portal 4 Solutions* that can be delivered together with the *Solution 4 Test*. Modules extend the functionality of *Solution 4 Test* by analytic and reporting tools on incidents and interfaces with other applications or data sources used by the customer.

1.3.1 Interfaces

The Module contains functionality enabling interconnection to other applications as sources or receivers of data. Any interface is considered for an independent and main functionality.

- a) Universal interface in form of web services for selected processes or actions as
 - filing of a test case status after test
 - providing information on the status of an particular test ...

This interface can be utilized by other applications on the side of the customer or suppliers.

- b) File interface working with predefined structure of exchange files (XML files).
- c) Interface for import data from MS Office formats.

1.3.2 Reporting & Analysis

The module contains functionality related to management and execution of reports and analytic tools based on the data contained in the application database.

- a) Report Management
- b) Generation and Execution of reports
- c) Data Analysis