



## Qumate

# Powerful test center for IT networks and products



### Highest level of quality assurance

**Qumate by achelos** is the innovative solution from achelos for manufacturer-independent end-to-end testing of IT networks, products and solutions. achelos offers a large number of test suites for immediate use on the basis of Qumate. The test suites can be accessed either locally or remotely, which facilitates new business models.

### Keeping an eye on the business process at all times

Qumate by achelos offers a cross-project view. It displays the technical requirements as well as the corresponding test cases clearly in a tree structure. Due to its modular architecture, the test center can be flexibly extended with plug-ins.

The test center has a well-structured graphical user interface and offers many degrees of freedom, e.g., for reporting and logging functionality. Thanks to its high degree of transparency and performance, Qumate by achelos provides highest level of test management.

### Qumate by achelos is available in two versions:

- Independent Qumate test center
- Qumate by achelos in a package with a test suite

### Qumate by achelos in the test process

#### Test planning

The test objectives and approach are documented in a structured test specification in the Requirement Manager. Configurable test specification documents can be exported.

#### Test monitoring and control

The Test Framework monitors the test progress and visualises the test results.

#### Test analysis

The Requirement Manager organises the requirements, helps analyse the test coverage, and allows direct addition of new test cases.

#### Test design

Test cases can be defined in the Requirement Manager, where test fragments serve as building blocks for several test cases. Test data is provided as parameters for the whole test suite or a specific test case.

#### Test implementation

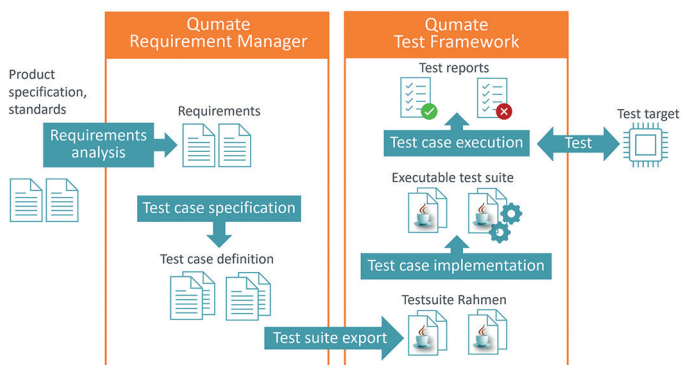
The Requirement Manager exports a test suite that can be executed by the Test Framework. The test suite contains test scripts (Java code files) for every test case. Qumate provides various interfaces to control the test environment (e.g., simulators) from fully automated test scripts.

#### Test execution

The Test Framework offers a versatile logging and reporting framework. Its detailed test reports record the information about the test environment, the executed tests with actual and expected results, and the test result for every test case. A single test case can be repeated as easily as a custom sequence of test cases can be executed.

#### Test completion

The Test Framework can write defect reports (e.g. Jira issues) for failed tests. Test reports are collected inside a test session, whereby every test project should use a new test session.



## Complete test workflow in the test center

Qumate by achelos covers the complete test workflow:

- Requirements analysis
- Test implementation
- Test execution
- Coordination of test activities
- Results analysis

The test center offers various tools and solutions for fast and thorough testing. It enables reliable documentation of all results during development, approval, and daily operation in the field. Centrally stored project data allows requirements analysts, developers, testers and managers to work in simultaneously on the same project.

Qumate by achelos is a universal test center and supports functional and non-functional tests, e.g. security tests. Via a remote interface, a remote test target can be tested with an onsite test suite and the test case specification can be accessed through other systems.

## Test suites and simulations at a glance

### Test suites

Test suites based on Qumate by achelos are available for:

- Smart cards
- Card terminals
- Components
- Networks

### Simulations

Qumate by achelos supports the development of test suites by a simple connection to different simulations:

- Smart cards
- Health card reader
- WAN environment of TI with all services and PKI

## Unique selling points

- **Structured requirements analysis**
- **Reproducibility of test specification** during implementation
- **Detailed documentation** of test results
  - Audit-proof, usable for Common Criteria certifications
  - Automatically generate issues in external defect-tracking systems
- Replicable test results through test automation
- Capability for **testing complex systems** with several simultaneously connected terminals, chip cards, and simulators
- **Centrally stored project data** allows users to work simultaneously on the same project
- The capability of **remote testing** and **remote test case planning** allows remote access to a provider's test suites or a test case specification.