

# TETware

## What is it?

For organizations that are developing software and need to thoroughly test their products across multiple operating systems, TETware is a Test Execution Management System that takes care of the administration, reporting, and sequencing of the tests, providing a single common user interface for all of the tests that you develop.

TETware provides an easy-to-use multi-platform uniform test framework into which local, remote, and distributed test suites can be incorporated. It is provided as a supported product for 32-bit Windows<sup>®</sup>, UNIX<sup>®</sup>, and Linux<sup>®</sup> operating systems.

This product allows test suites to share a common graphical user interface, promoting sharing of test suites both within an organization and between different organizations. Standardization of the test methodology and tools allows testing efforts to focus away from the harness and tools, increasing efficiency and productivity.

TETware is being used in a wide diversity of automated testing applications, ranging from: standards API conformance testing; network computer testing; performance and stress testing; and verification of secure electronic transactions; to distributed cross-platform applications.

### Features

TETware provides facilities to execute test cases in several ways:

- Non-distributed test cases on the local system
- Non-distributed test cases on one or more (up to 999) remote systems
- Distributed test cases with the parts of each test case executing simultaneously on either the local system and one or more remote systems, or entirely on two or more remote systems
- Single test case selected at random from a list of test cases
- Combinations of the above executing in parallel
- Sequences of the above executing a specified number of times, or until some time period has expired

## More information

For more information, contact TETware Product Management: [tet\\_prodmanager@opengroup.org](mailto:tet_prodmanager@opengroup.org)

## Benefits

TETware reflects the need of both testers and test developers to have a simple, common interface that supports the basic functions that all tests need to perform (e.g., reporting, communication, and test sequencing).

Use of TETware can improve software quality while reducing testing intervals by up to 60% by making repeat and regression testing easier.

TETware enables test developers to spend their time writing tests, not designing testing frameworks, and enables the development of tests that work well in conjunction with one another under a common graphical user interface. It provides a uniform framework, into which both non-distributed and distributed tests can be incorporated.

Test suites can share a common interface allowing for ease of portability.

Test developers don't need to be concerned about the "administrative" aspects of testing, and so are able to concentrate on the actual task of writing tests.

Testers only need to learn how to use a single, standard test harness.

## Facilities

- Support for assertion-based testing and stress testing
- Builds, executes, and cleans up test suites
- Test scenarios can be defined using a powerful scenario language
- Test parameters can be specified using a flexible configuration variable mechanism
- Configuration information and test results are recorded in a journal, and then may be written to a report or parsed to a database
- Support for standard POSIX result codes is built-in; user-defined results are also supported

## Versions

TETware may be built in three versions:

- **Lite** for supporting non-distributed testing on a single computer system
- **Distributed** for processing distributed and non-distributed test cases on a local system and one/more remote systems
- **RT** for processing test cases on realtime or embedded systems

# TETware

## TETware GUI

The TETware GUI provides full test execution management for local, distributed, and real-time testing. More advanced tasks are made easier with the use of wizards.

The TETware GUI uses the concept of a Test Run; this is a logical and conceptual unit that encompasses all the necessary data needed to ensure that a series of test cases can be executed successfully. A Test Run contains a number of elements, some mandatory and others optional, that when combined enable the user to focus on the purpose behind the tests rather than getting the tests to execute. Because the Test Run is a logical unit, it can be saved once and run many times. All the data relating to a given execution of tests is saved as a whole. This means that the user no longer has to worry about the management of configuration files and environment variables.

## Support

The Open Group provides support and maintenance for TETware users including:

- Priority bug reporting and repair via a dedicated alias
- Provision of enhancements and maintenance releases as they become available

In addition to which support customers receive a number of other benefits, including:

1. A Java GUI which provides for ease-of-use and incorporates additional functionality, including database access
2. Increased platform support (the WIN 32 version is only available to TETware support customers)
3. A native Java API
4. A report writer
5. Access to online TETware information available on the web and via FTP
6. Voting rights in deciding the priority of extensions
7. Binary distribution rights
8. Publication of the names of organizations that sponsored TETware support by subscribing to the support services

## Technical information

TETware is written in C, and requires a C compiler. TETware requires POSIX.1 conformance. It is supported on UNIX operating systems, Linux, and 32-bit Windows Systems.

The TETware GUI is written purely in Java 2 using the full capabilities of the Swing APIs. The TETware GUI requires Java 2 (also known as JDK 1.2) or later.

The system requirements for Windows Systems are:

- Visual C++ 4.0 or later
- MKS Toolkit for Windows NT Version 4.4 or later

Language bindings are available for the development of test cases in: C, C++, Java, Perl, Korn Shell, XPG3 Shell, and Tcl.

## About The Open Group

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