

(expleo)

TESTONA

Systematic Test Design



Systematic

- Clear, understandable and complete test specification
- Measurable assessment of the test coverage
- Support for all major specification-based test methods, e.g. according to ISO 29119, ISO 26262
- Tool coupling for requirements tracing

Efficient

- Cost reduction through automated test generation and redundancy-free testing
- Universally applicable: independent of industry, domain or test phase
- Easy tool coupling and open interfaces
- Easy to learn

Test Design with the Classification Tree Method

TESTONA is the most popular tool for systematic test design in black-box-tests. All standard specification-based test methods are supported and represented in classification trees, e.g. equivalence class test, boundary value test, combinatorial test, classification tree method and statistical test. It enables the user to generate complete and comprehensible test specifications easily, and avoids redundant test cases.

Functions such as the automatic test generation, comprehensive requirements tracing or numerous interfaces with development and test tools make **TESTONA** one of the leading products for professional test organizations.

Various metrics and evaluations enable the user to assess the test scope and to detect missing or redundant tests.

TESTONA can be used flexibly in all test phases and is independent of industry or domain. Customers from different sectors, e.g. automotive and aviation, finance, telecommunications, and IT rely on this methodology.

International test standards such as the ISTQB Certified Tester and ISO 29119, as well as leading test trainers recommend the test methods available in **TESTONA**.

Benefits of TESTONA

Systematic Test Generation

TESTONA automatically generates test cases according to several test methods with the desired test intensity, e.g. minimal coverage, pairwise.

The activation of freely definable rules ensures that only test cases conforming to specifications are generated; negative tests are generated by deactivation.

Test Oracle

TESTONA supports the use of different test oracles (non-automated, implicit, derived, specified) to determine the expected test results.

Test Script Generation

TESTONA allows a template-based export of executable test scripts to target formats such as Shell, XML, Text, JUnit, SQL and avoids thereby the manual test implementation.

Requirements Tracing

TESTONA allows the linking of requirements with classification tree elements, test cases and test results. Changes in the specification are automatically recognized – affected elements and test cases are highlighted and collected in a checklist. In addition, a graphical visualisation of the requirements coverage facilitates the verification.

Test Evaluation

Already existing test suits can be imported in a few clicks and their test quality and completeness can be evaluated or optimized.

Similarities and differences in failed test cases are recognized and affected classes and classification are highlighted in the classification tree.

Tool Chains

Numerous import and export interfaces allow the use with AUTOSAR, Matlab / Simulink, IBM Rational DOORS, Micro Focus ALM, Atlassian Jira, Trello, Redmine, and others.

Four TESTONA editions

Express

The entry in systematic test design

Professional

Powerful version for professional testing with optional extensions

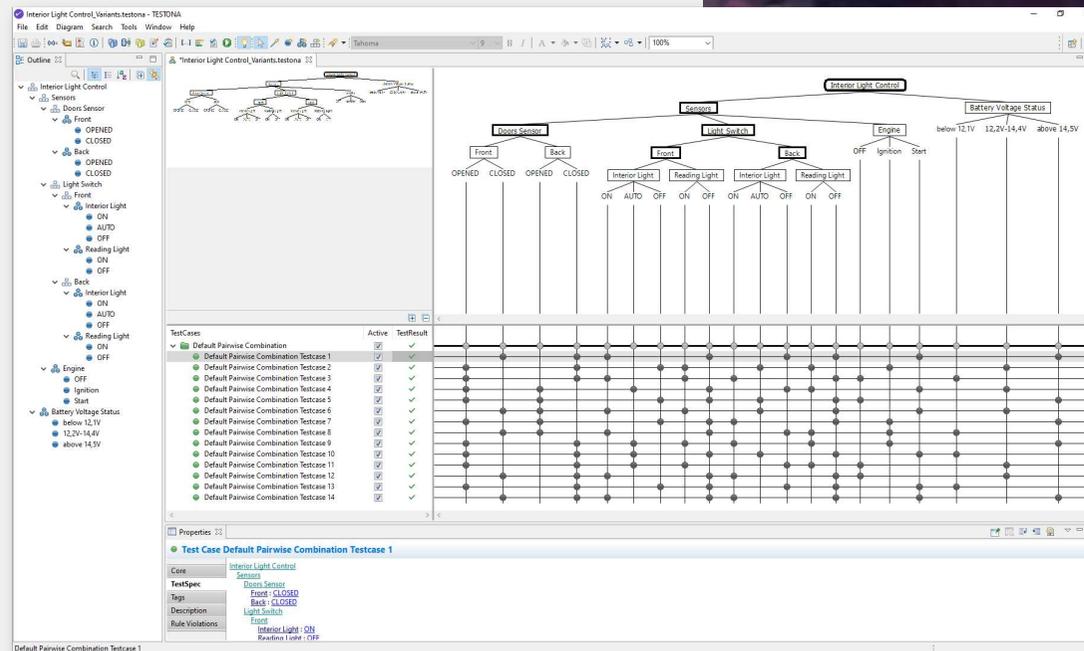
Enterprise

Full version with all extensions

Light

Free version for non-commercial use with reduced functionality

Further informations & download:
products.expleogroup.com/testona



About Expleo

Expleo is a global engineering, technology and consulting service provider that partners with leading organisations to guide them through their business transformation, helping them achieve operational excellence and future-proof their businesses.

Expleo benefits from more than 40 years of experience developing complex products, optimising manufacturing processes, and ensuring the quality of information systems. Leveraging its deep sector knowledge and wide-ranging expertise in fields including AI engineering, digitalisation, hyper-automation, cybersecurity and data science, the group's mission is to fast-track innovation through each step of the value chain.

As a responsible and diverse organisation, Expleo is committed to doing business with integrity and working towards a more sustainable and secure society. Expleo boasts an extensive global footprint, powered by 15,000 highly-skilled experts delivering value in 30 countries.

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