



TL CAT Testing Tool



A Modular Computer-Assisted Testing Environment

Stronger requirements for quality assurance, especially in the context of embedded systems and security, impose a shift from traditional craft-based testing practices to rigorous engineering-based procedures.

TL CAT offers an incremental and modular approach which makes it possible for users to evolve smoothly from traditional practices to more systematic and productive techniques. Thanks to the automation of all time-consuming and repetitive tasks, TL CAT users can focus on the most critical testing activities which result in significant improvements in terms of quality, timeliness and rigor.

A Modular Environment to Assist in all Testing Activities

- TL CAT Test Generator: incremental services to efficiently develop high-quality test suites
- TL CAT Test Manager: user-friendly environment for managing test scripts (selective and incremental execution, test report generation, etc.)
- TL CAT Docs Generator: toolbox for developing semi-formal documentation and specification, suitable for preparing high-quality documents for evaluations, including the generation of traceability links, cross-coverage tables, and Common Criteria documentation
- Modular architecture allowing each tool component to be used either in isolation or jointly
- Dedicated to either system testing, unit testing or ISO Common Criteria evaluations

TL CAT Test Generator, for Tool-Powered Methodologies

Smooth transition towards higher levels of automation and coverage

- Level 1: powerful test scripting (standard language constructs augmented by high-level features)
- Level 2: support in defining oracles (by designing models of the application)
- Level 3: automatic generation of test scripts (based on test case patterns and variants)

High quality test scripts and documentation

- Automatic generation of test documents with browsing facilities and reliable coverage information
- Higher levels of coverage through higher levels of automation
- Traceability links to facilitate understanding and justification of test scripts

Easier test script management and maintenance

- Structured test scripts for a better management of large testing bases

Automatic generation of a new version of the scripts to account for evolutions in the specifications

Value-added features

- Systematic test methodology supported by a testing environment
- Support for traceability and coverage assessment
- Suitable for use in the context of Common Criteria certifications (ATE class)

References

- Gemalto
- GIE-Sesam Vitale
- MasterCard
- Pay-TV operators
- Telecom operators

