# INTEGRATED TEST ENVIRONMENT

ITE

professional
test management

The Integrated Test Environment (ITE) is designed to easily manage complex hardware and software test projects. Its purpose is to develop, execute and evaluate tests according to linked requirements. No matter whether it is for unit, integration or system testing, ITE provides the complete picture of the test process at a glance.

Traceability between test artefacts as well as high quality reports ready for certification are the outcome of the well-guided and structured ITE testing process.
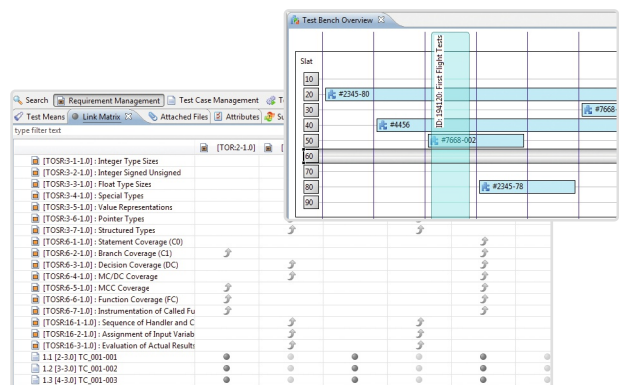
ITE efficiently manages requirements, test cases, test procedures and test runs while ensuring full traceability and overall transparency of the whole test process. With open interfaces to system test benches, ITE provides seamless traceability from real-time execution results back to linked requirements and test cases.

Integrated Test Environment – major features

- Planning of tests and test campaigns
- Definition and linking of requirements and test cases
- Management of test cases, test procedures and test runs
- Import and export of requirements (ReqIF)
- Open test bench interface for third-party real-time execution environments
- Customizable high-quality reports
- Versioning of requirements and test cases
- Client/server multi user architecture

Proven testing process

Inspired from the avionics testing processes, ITE provides a well-established process model and guides you through each step. Filtered browser views reveal the currently interesting parts of the test project and specific editors support each test activity.
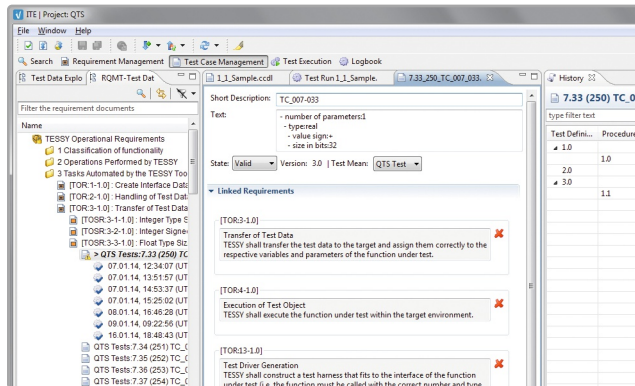
Efficient testing of safety-related products

ITE includes the high-level test specification language CCDL which makes system testing and certification review easy due to its intuitively understandable and well-readable form. Requirements can be directly linked to test procedure

actions and expected reactions so that test results are automatically mapped to the respective requirements.

Analyzing impacts of changes

The versioned link chain from requirements down to test results allows detailed tracing of changes and necessary rework. Each team member can analyze the differences to the previous version of suspicious linked elements and either update the link or resolve the issue.

Powerful search engine

ITE simplifies filtering any relevant information of the whole test project: Formulate search queries which combine relationships like between requirements and executed tests as well as result states or test bench assemblies. Analyze the relationships using a graphical relations view.
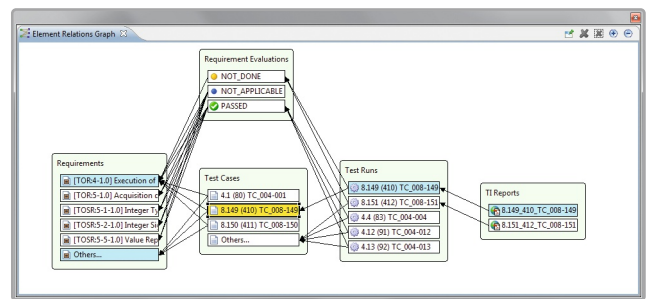
Certification-ready reporting

ITE generates customizable high-quality reports including requirement to test coverage for both the planning phase and the execution phase of a test project.

Import and export interfaces

Requirements can be imported using ReqIF, CSV or XML format and linked test results can be exported using the ReqIF format. The command line interface provides scripting for the import of test results from external sources.