TEMPPO Designer
(IDATG) is your gateway to
model-based test automation

Integrating Design and Automated Test Case Generation

TEMPPO Designer (IDATG) is your gateway to professional and cost-efficient test automation. While up to now test teams had to spend a huge effort for the implementation and maintenance of automated test cases, IDATG aims at generating test cases based on a simple model of the application. The advantage is obvious: Instead of having to write test scripts from scratch and manually adapt each of them whenever there is a change in the tested application, all that is needed now is keeping the model up-to-date. The costs for test maintenance are reduced dramatically thus leading to shorter test cycles and better product quality.

The unique IDATG tool combines user-friendly test specification editors with a patented test case generator that employs a wide range of systematic test methods. IDATG supports a number of popular GUI testing tools but can also generate scripts for other test interfaces.

The Need for Automated Test Generation

Frequent regression tests are a must for ensuring the quality of a software product. However, manual test maintenance and execution is not only monotonous and easily affected by human mistakes but also requires a tremendous effort.

The only alternative is test automation!
Nonetheless, traditional test automation using a capture/replay tool has its drawbacks:

- Test maintenance remains a huge problem, because quite often hundreds of test scripts have to be updated before each new test run
- Test cases and test data still have to be created manually
- The test specification is difficult to understand and depends on implementation details

Model-based test generation solves these problems!
IDATG consists of a set of user-friendly editors for test specification and a powerful test case generator that produces complete test scripts. IDATG supports the test execution tools HP QuickTest®, Micro Focus SilkTest®, Micro Focus TestPartner® as well as user-defined output formats that can be used e.g. for API testing. In addition, IDATG is integrated into the professional TEMPPO test management framework.

Atos

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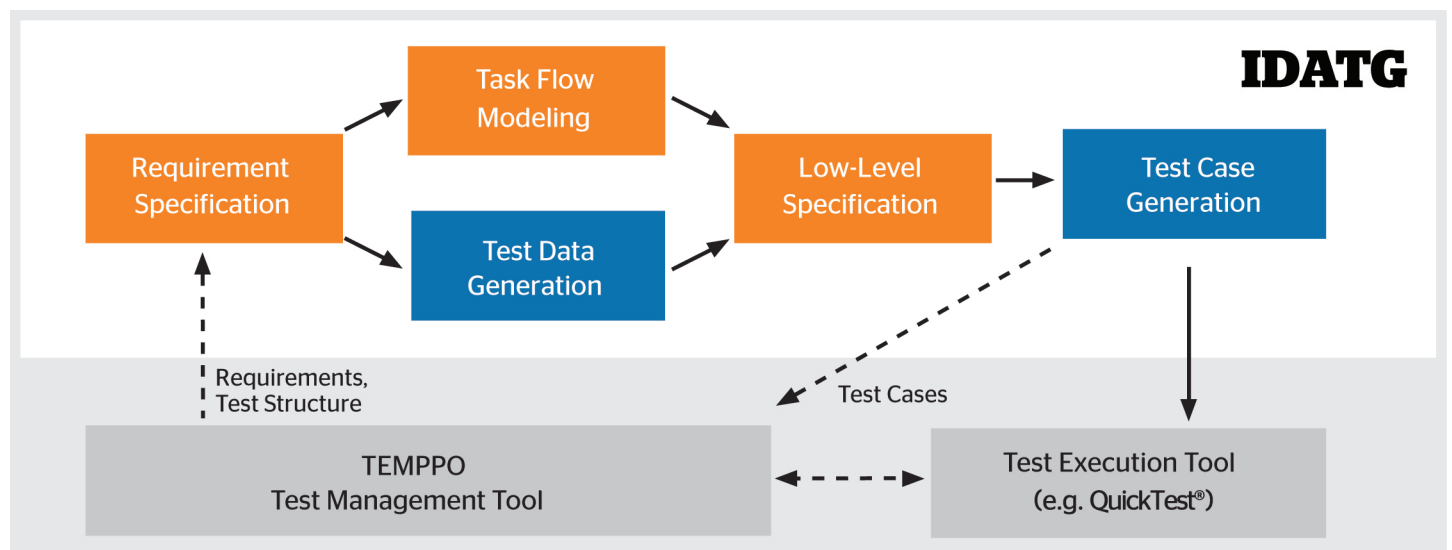## Our Offer

▸ Significant reduction of the test effort
▸ Instead of having to edit hundreds of test cases before each regression test run, only the test model has to be updated
▸ Automated application of systematic test methods guarantees that all requirements are covered by tests
▸ Errors and inconsistencies in the design are detected at a much earlier stage
▸ Our professional consultants will assist you in setting up test automation for your project and can even perform testing tasks as an independent service.

Workflow

▸ The user specifies requirements and a hierarchy of test scenarios.
▸ Each scenario can be decomposed into reusable building blocks. Using these blocks, a variety of test sequences can be defined.
▸ Test data can be imported or generated using the powerful CECIL method that combines the benefits of equivalence partitioning and cause-effect analysis.
▸ IDATG provides a wealth of possibilities for defining dependencies and semantic constraints.
▸ Test cases are generated automatically by the patented IDATG algorithm.
▸ The test cases can be converted into various formats and then be executed with an external tool.

Success on Earth and in Space - Apart from its successful application in many internal and external projects where it helped to ensure software quality and saved hundreds of hours, IDATG is used by the European Space Agency as the main tool for testing the Spacecraft Operating System SCOS-2000 and the Multi-Mission User Systems.

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For more information:
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