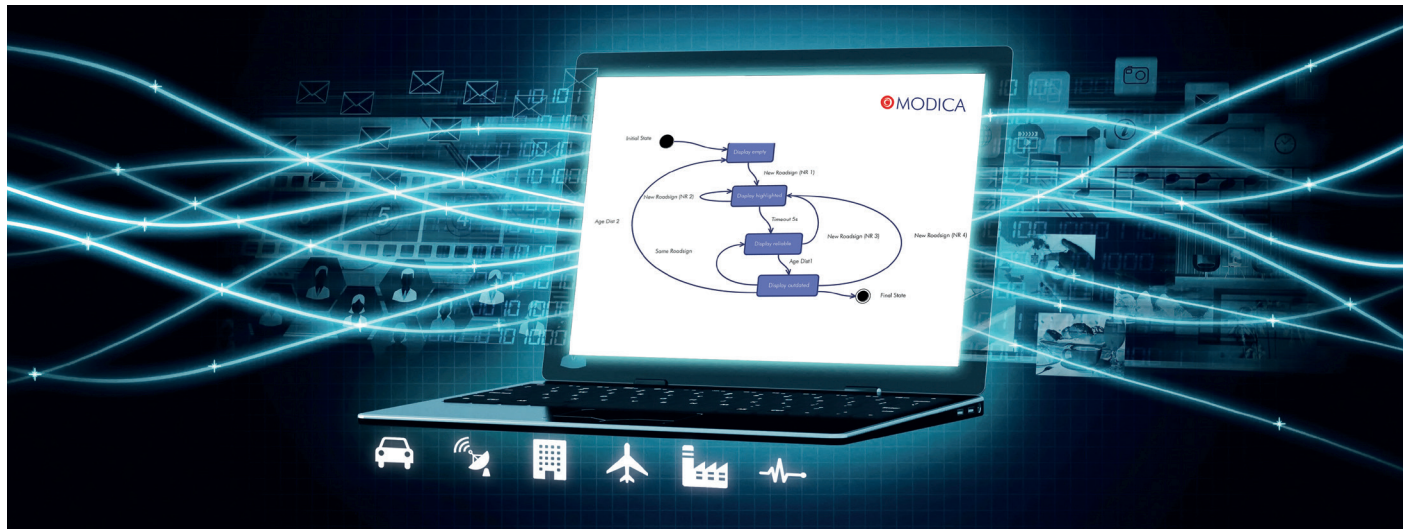


MODICA

MODEL-BASED TEST GENERATION



REDUCE COMPLEXITY

- Generation of usage models for systems
- Generation of relevant, reproducible and automatically executable test sequences

IMPROVE TEST EFFICIENCY

- Intuitive modeling methodology with state machines
- Easy verification by standard-compliant traceability
- Coupling to test automation
- Reduced effort for the specification, generation and evaluation of test cases

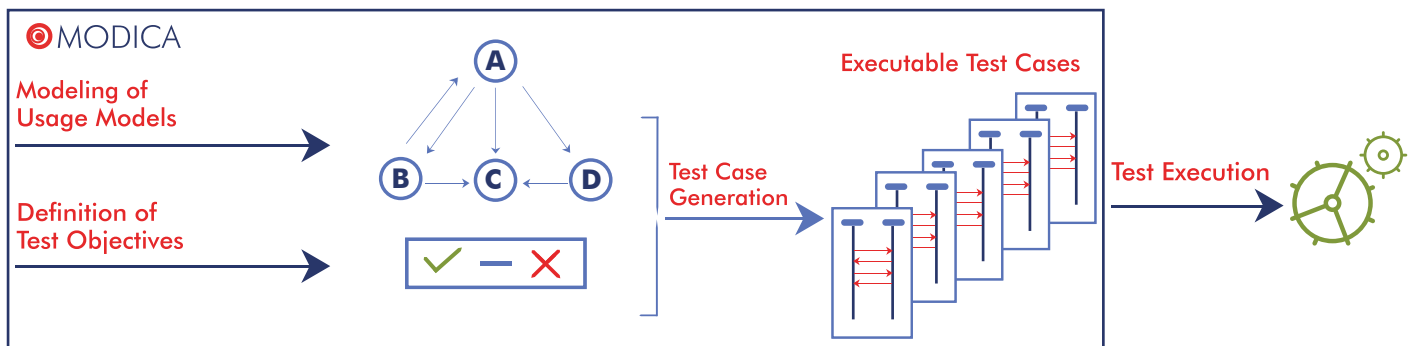
APPLICATION AREA

MODICA is a powerful tool for the model-based test case development. It accelerates the test process and automatically generates relevant test sequences for complex systems based on usage models. MODICA offers an intuitive, graphical user interface to map the specified behaviour of the test object in usage models.

Generated tests can be linked easily to textual requirements from requirements management tools, e.g. DOORS.

The executable test scenarios are generated directly within MODICA. By defining specific sequence rules, the user can control the generation process in terms of test content and scope. For the generation itself, the powerful and deterministic test case generator from Conformiq is used.

FROM MODEL TO TEST CASE



BENEFITS OF MODICA

ABSTRACTION

- The model-based approach simplifies the testing process – no implementation of tests required
- State machines facilitate the exchange between developers, testers, and experts

SYSTEMATISATION

- Interfaces to specification tools such as DOORS ensure the traceability between requirements and tests
- Deterministic test case generation – controllable by sequence rules
- Gaps in test coverage are found efficiently and systematically

AUTOMATION

- Automated generation of test suites with different test objectives from one model (single-source-principle)
- Generation of executable tests
- Support of test automation systems, e.g. EXAM, MESSINA

MAINTAINABILITY

- By adapting the model and generating new test cases, bug fixes or changes to the system can easily applied to the test

Further information: www.assystem-germany.com/en/products



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- 📍 Erwin-von-Kreibitz-Straße 3
80807 München
- ☎ Tel: +49 89 608090-0
- ✉ E-Mail: info-de@assystem.com
- 🏠 www.assystem-germany.com

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