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## Test Projects for Efficient Management of Test Data

Configurable test projects group all test-relevant documents, parameters, data, results, and metrics for efficient test management with hierarchical organization of all data. The user interface allows for convenient configuration and exchange of test settings for easy reusability of test projects. All test-relevant results collected in a test project are visualized in a comprehensive and configurable report and stored in the documentation catalog. The Test Project Protocol provides comprehensive details with regard to test maturity and completeness.

## Assessment Framework for Automated Test Evaluation

The MTest assessment framework enables automated evaluation of test results, comparing input/output signals with requirement definitions, clearly indicating time and duration of failures or deviations. With the help of the newly introduced MTest Assessable Requirements Syntax (MARS), requirements formalization becomes an easy task and contradictory requirements can be quickly identified. The Requirements Coverage Traceability Framework provides the user with an instant overview of coverage metrics of requirements, related test sequences and assessments, and thus the progress and quality of the test project.

### Automated Testing Activities

- Management of test projects
- Requirements imports and tracing
- Interface analysis and test bed generation
- Req-based logic test case generation
- Test case variation
- Test execution and continuous integration
- Test assessment and evaluation (test oracle)
- Signal comparison and evaluation
- Test report and test catalog generation

### User Support for Manual Activities

- Test case specification
- Advanced test oracle definition

### Advanced Feature Details

- Recording of internal signals (local signals) of the test object and display in report
- Requirements specification with MARS and auto-generation of test assessments
- Generation and variation of logic test cases
- Signal comparison between all simulation modes with individual tolerance management
- Reporting of test sequence results, assessment compliance, and signal plots
- Effective test interface analysis and interface change management
- Model coverage and aggregation (by Simulink V&V / Coverage Toolbox)
- Code coverage and aggregation (by TargetLink and CTC++)
- Automatic enhancement of TL modules
- Continuous Integration with Jenkins



### Contact

Model Engineering Solutions GmbH, Waldenserstraße 2-4, 10551 Berlin, Germany  
T: +49 30 2091 6463 0  
Email: info@model-engineers.com