

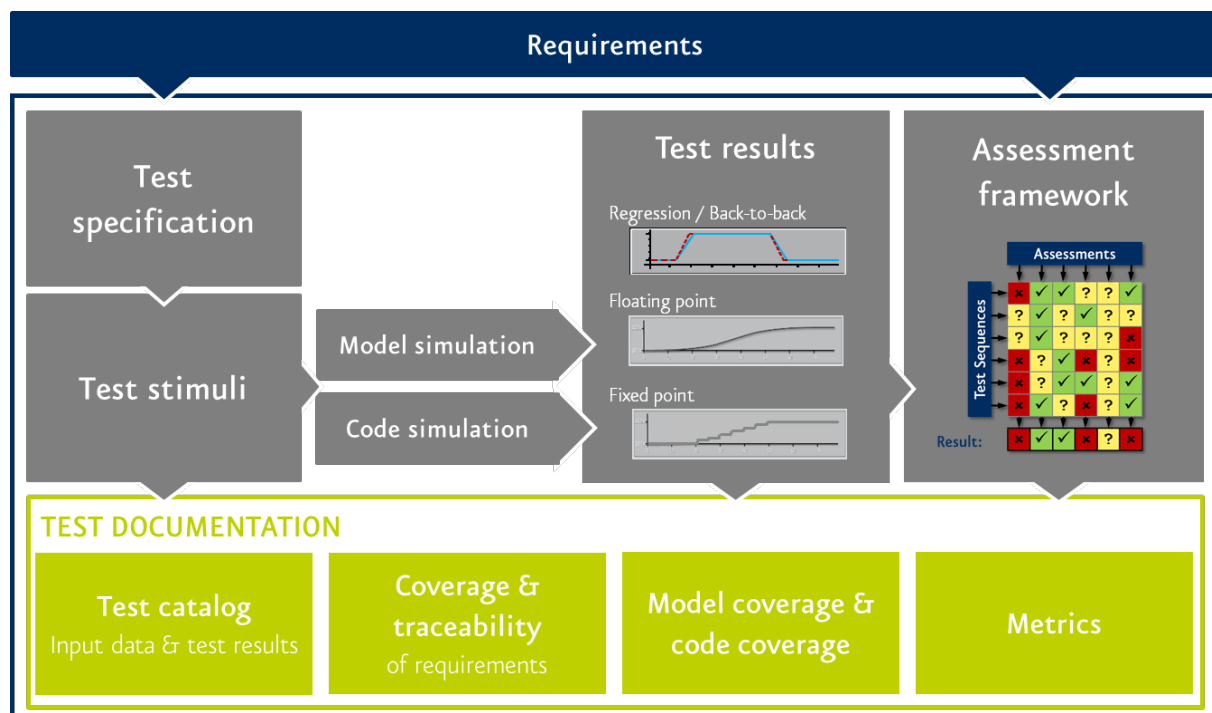
MES TEST MANAGER[®]

Professional Framework for Requirements-based Testing

Reliable Model Test Management

MES Test Manager[®] (MTest) is a model test management framework that supports ISO 26262-compliant, requirements-based unit testing of Simulink[®], Embedded Coder[®], and TargetLink[®] models.

The tool supports MiL, SiL, PiL, back-to-back and regression testing, and test case definition methods using measured data, Excel[®], CTE/TESTONA, and MTCO (a test specification language for model testing developed by MES).



MES Test Manager[®] supports and automates all components of testing to ensure efficient module and system testing of your models

Key Benefits

- ISO 26262-compliant testing and evaluation for MiL, SiL, and PiL simulation
- Automated test evaluation using assessments and signal comparison
- Comprehensive test reports and test catalogs
- Automated recording and aggregation of model- and code coverage data
- Batch mode for automated execution of all test activities in a project



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 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.

Assessment Framework and Requirements Coverage Traceability

The MTest assessment framework allows 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 new introduced Requirements Coverage Traceability (RCT) framework, the user has 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
- Interface analysis
- Test bed generation
- Test execution
- Test assessment
- Test report and test catalog generation
- Regression/Back-to-back testing
- Batch mode for simulation, regression testing, and report generation

User Support for Manual Activities

- Test specification
- Test oracle definition

Advanced Feature Details

- Recording of internal signals (local signals) of the test object and display in report
- Signal comparison between different simulation modes displayed in one diagram (model simulation and code simulation)
- Reporting of test sequence results, assessment compliance, and signal plots
- Effective test interface
- Model coverage and aggregation (by Simulink V&V Toolbox)
- Link to coverage reports in test report
- Code coverage and aggregation (by TargetLink and CTC++)
- Automatic enhancement of TL modules
- Supporting all MATLAB® releases from R2007b



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