

MES MODEL EXAMINER®

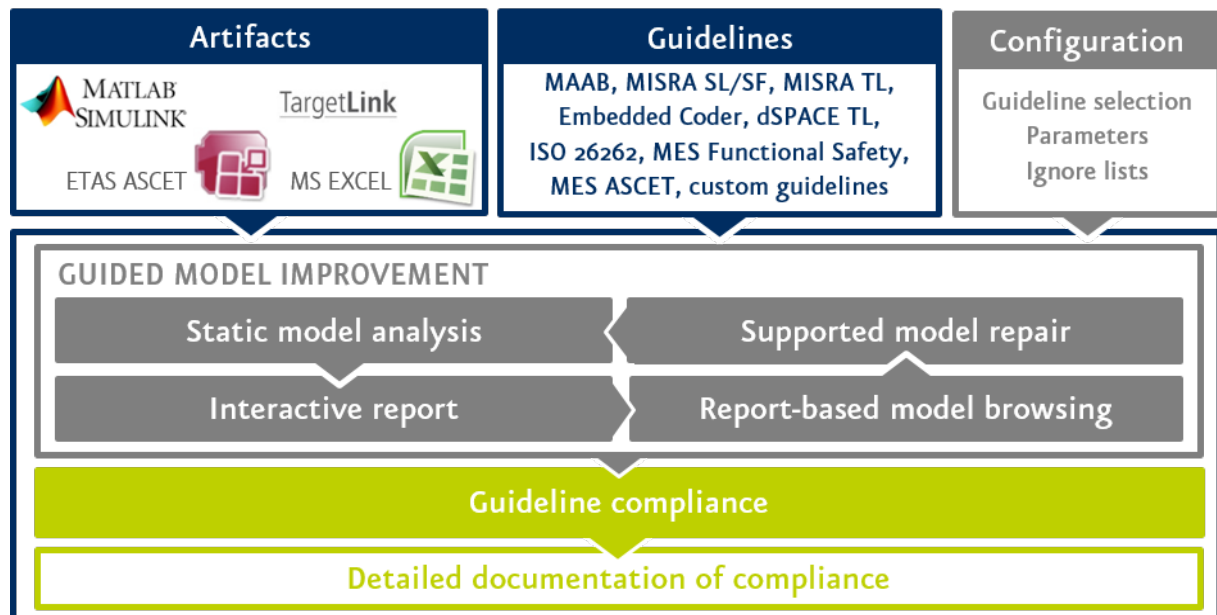
The first choice for static model analysis

Easy Checking of Modeling Guidelines

The Model Examiner (MXAM) is your first choice for a comprehensive static model analysis. MXAM offers an easy way to check modeling guidelines, analyze model structure, and evaluate model metrics, all in a single tool. Comprehensive user guidance through analysis results as well as the repair and improvement process effectively ensures ISO 26262 standard compliance for your software models.

Ensuring ISO 26262 Compliance

MES Model Examiner® is certified by TÜV SÜD as a T2 Offline Support Tool for use in safety-relevant software development in compliance with ISO 26262, IEC 61508, and ISO 25119.



MES Model Examiner® analyzes software models for guideline compliance and guides the user through the repair and improvement process.

Key Benefits

- Automated checks and repairs for Simulink®, Stateflow®, Embedded Coder®, TargetLink®, ASCET®, and Excel® guideline violations
- Efficiently ensure ISO 26262-, ASPICE-, and MISRA®-compliant software models
- API for developing and integrating company-specific checks
- Simple integration into existing development environments
- Support system for guideline and check development



MXAM - Functional Safety Solution:

MXAM - Functional Safety Solution (MXAM) is essential for developers of safety-critical, ISO 26262-compliant software, helping fulfill key criteria for ISO 26262-compliance at model level. As an integrated solution for a comprehensive static model analysis, it bundles all the guidelines for making your models conform to international standards together with model metrics for the in-depth structural and complexity analysis of your models. MXAM includes checks for a powerful dataflow and control flow analysis with a focus on strong data typing, appropriate scaling and ranges of data, correct initialization of variables, and interface compatibility, as well as checks for improved testability. With MXAM you are perfectly equipped to develop safety-relevant software in compliance with ISO 26262.

Supported Artifacts

- MathWorks MATLAB®
Simulink® and Stateflow® (SLSF),
Embedded Coder® (EC)
- dSPACE® TargetLink® (TL)
- ETAS ASCET® (*MXAM ASCET edition)
- MS Excel® (*MXAM Excel adapter)
- Customer-specific artifacts

Supported Guidelines and Standards

- MAAB
- MISRA® AC SLSF / MISRA® AC TL
- Embedded Coder® Guidelines
- dSPACE TargetLink Guidelines,
TargetLink Known Problems
- MES Functional Safety Guidelines
- Model Architecture and Complexity Assessment
- ISO 26262, ISO 25119, IEC 61508
- Guidelines for ETAS ASCET® (*MXAM ASCET edition)
- Customer-specific guidelines

Supported Functionality

- Guideline selection and configuration with support of custom guidelines
- Interactive report with model browsing and repair support
- Add report annotations for justified deviations and comments
- Report save and export (mxmr, pdf, doc, html, xml) including annotations and guideline summary
- Comparison of different reports for quality and change monitoring
- API support for toolchain integration (Jenkins, MATLAB command line, Java)
- MES Plugin for Continuous Integration with Jenkins (*MXAM CI)



Contact

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