

MES MODEL EXAMINER®

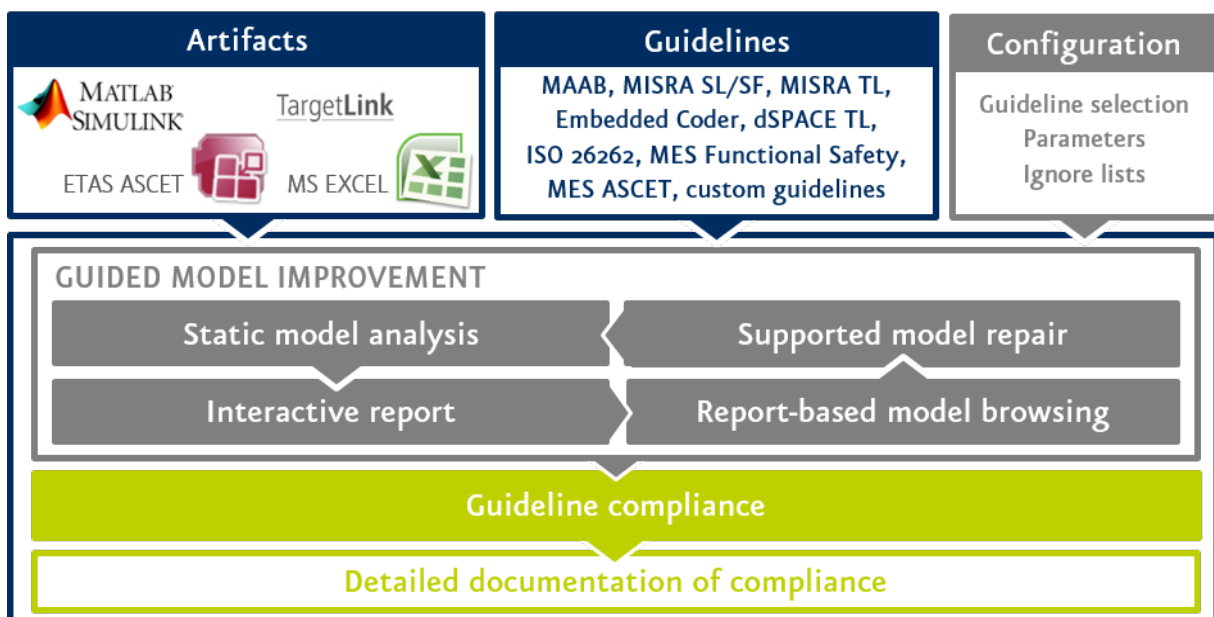
Automated Guideline Checking and Management

Easy Checking and Management of Modeling Guidelines

MES Model Examiner® (MXAM) is a tool for quick and reliable checks of Simulink®, Stateflow®, Embedded Coder®, TargetLink®, ASCET®, and Enterprise Architect® models, as well as Excel® data, using general and company-specific modeling guidelines and data rules.

Assuring ISO 26262 Compliance

MES Model Examiner® is certified by TÜV SÜD as a T2 Offline Support Tool for use in safety-related 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®, Enterprise Architect®, and Excel® guideline violations
- Efficiently ensure ISO 26262-, ASPICE-, and MISRA®-compliant software models
- Open API for developing and integrating company-specific checks
- Simple integration into existing development environments
- Support system for guideline and check development



MISRA® Compliance Solution (MXAM MCS):

This edition offers a standard solution for developers focusing on MISRA® compliance at model level. MXAM MCS includes all the necessary guidelines and checks for verifying MISRA® conformity.

Functional Safety Solution (MXAM FSS):

This edition is essential for developers of safety-critical, ISO 26262-compliant software, helping fulfill key criteria for ISO compliance at model level. In addition to all guidelines and checks that come with the MISRA® Compliance Solution, MXAM FSS 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. Furthermore, this edition comes with MES M-XRAY®, a highly sophisticated analysis tool for assessing model architecture and complexity.

Supported Artifacts

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

Supported Guidelines and Checks

- MAAB 3.0
- MISRA® AC SLSF 1.0 / MISRA® AC TL 1.0
- Guidelines for Embedded Coder® (*MXAM FSS)
- dSPACE TargetLink 3.0/4.0
- TargetLink Known Problems
- MES Functional Safety Guidelines
(dataflow analysis) (*MXAM FSS)
- Model Architecture and Complexity Assessment
(*using MES M-XRAY®, part of MXAM FSS)
- Guidelines for ETAS ASCET® (*MXAM ASCET)
- 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 tool chain integration (Jenkins, MATLAB command line, Java)



Contact

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