

What is MoRe?

MES Model & Refactor[®] (MoRe) is a productivity tool that makes modeling with MATLAB Simulink[®] faster, easier and less error-prone. MoRe supports users by simplifying and accelerating model editing and reducing monotonous work steps. The tool facilitates the modeling process as a whole, in particular the refactoring of models.

What's New?

Read about all new features in the release notes

Highlights in MES Model & Refactor[®] (MoRe) v.2.1

User experience is improved by user dialogue enhancements.

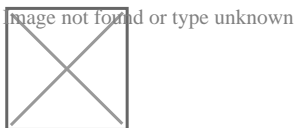
MoRe now supports MATLAB 2020a and 2020b releases.

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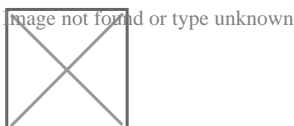
MoRe v.2.0

Highlights in MES Model & Refactor[®] (MoRe) v.2.0

New design of menu speeds up modeling. The new menu allows one-click access to frequently used actions. All available actions are categorized in submenus, sorted in descending order of estimated frequency of use.



Easily add new high-level input signals to the current subsystem. You can add new input signals from higher levels without leaving the subsystem you are working on in the editor.

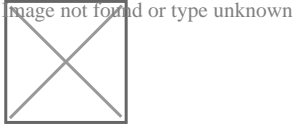


MoRe v.1.4

Highlights in MES Model & Refactor[®] (MoRe) v.1.4

Usability improvements include a hook function to set block parameters for blocks generated by MoRe precisely, significant runtime acceleration for partition actions, support of branched signals when jumping

to signal usage destinations, and the cleaning up of unconnected signal lines after break/merge subsystem actions.



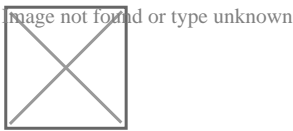
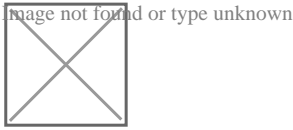
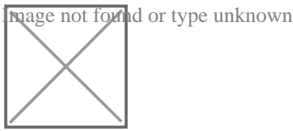
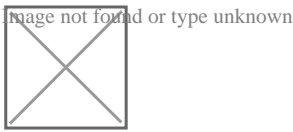
MoRe v.1.3

Highlights in MES Model & Refactor[®] (MoRe) v.1.3

More actions for port blocks and signal lines

New actions "Arrange Port Blocks" and "Convert Goto/Froms to Lines" are available.

Improved handling of signal line parameters on "Add Cross-Hierarchy Signal" action



MoRe v.1.2

Highlights in MES Model & Refactor[®] (MoRe) v.1.2

Extended TargetLink support

Route cross-hierarchy signals into and out of TargetLink subsystems. Automatic guideline-compliant use of TargetLink port blocks. Ability to also move TargetLink simulation blocks within the subsystem hierarchy.

MoRe v.1.1

Highlights in MES Model & Refactor[®] (MoRe) v.1.1

Advances in usability and runtime

Dialog alignments are optimized to reduce obstruction of views. Reduced runtime of typical actions.

Improved drawing of branched signal lines

Installation

- Extract the MES MoRe zip file (e.g. MES_MoRe_2_1.zip) into a target folder with write access.
Suggestions:
 - C:\Program Files\MES_MoRe
 - %MATLAB_ROOT%\toolbox\MES_MoRe_2_1
 - %MATLAB_ROOT%\toolbox\MES_MoRe
 - x:\project\matlab\MES_MoRe_2_1Please keep all the subdirectories.
- If you extracted the zip file to the MATLAB toolbox folder (%MATLAB_ROOT%\toolbox), then call *rehash toolboxcache* once in the MATLAB command line.
- For permanent installation (recommended):
 - Add a call to the MoRe\init_MoRe.m script from the target folder to your MATLAB startup.m file. Example call: *run('C:\Program Files\MES_MoRe\MoRe\init_MoRe');*
Please make sure that there is no call to init_MoRe of an old installation left!
If you are not sure whether you have any startup.m file yet, type *which startup.m* in MATLAB command line.
If result is not empty, add the call from above to this file.
If result is empty, create a new startup.m file in your *userpath*. Type *userpath* in MATLAB command line to get your userpath. Add the call from above to the newly created file (type also *doc startup* in MATLAB command line for help).
 - Restart MATLAB. There should be an MES MoRe menu entry in Simulink now.
- For temporary usage (not recommended):
 - Call *init_MoRe* from the MoRe subfolder of the target folder in the MATLAB command line.
This might throw warnings like 'Objects of XXX class exist - not clearing java', if other tools are holding locked references to java objects. In that case, please follow the instructions for permanent installation above.
- (Optional) Some actions from the 'Analyze' submenu require Graphviz to be installed:
 - Download and install Graphviz from <http://www.graphviz.org/>
 - Add the folder containing the dot.exe of Graphviz to the PATH environment variable of Windows (e.g. C:\Program Files (x86)\Graphviz 2.28\bin).

License Configuration

Learn more about the MES Quality Tools License Configuration, general license questions and the MES licensing models as well as how to change your MAC-ID.

Update to the Latest Version

- If you added a call to `init_MoRe` to your `startup.m` and used a folder with version postfix (e.g. `x:\project\matlab\MES_MoRe_2_0`), then please update the call to the folder of the new installation (e.g. `run('C:\Program Files\MES_MoRe_2_1\MoRe\init_MoRe')`);
- If you installed the old version to a folder with version postfix (e.g. `x:\project\matlab\MES_MoRe_2_0`), you can keep that directory as a backup.
- If you installed without version postfix, you could rename the old installation directory to one with version postfix as a backup.
- Then proceed according to the installation instructions given below (including license configuration).

Download Latest Version

System Requirements

The following system requirements must be in place to use MES MoRe:

- Windows (XP, Vista, Windows 7+8+10 - 32 and 64-bit versions)
- MATLAB® R2012b ... R2020b
- Simulink

Quick Start

Starting MoRe

- After installation, "*MES MoRe*" is available as a separate entry in the Simulink menu and context menu. It does not need to be started manually.

Starting an Analysis

- Open a demo model by typing "*fuelsys*" in the MATLAB command prompt
- Select the two subsystems on the root level of the *fuelsys* model
- Click "*MES MoRe*" in the Simulink menu and then select "*Merge Subsystems*"
- To undo the action, select "*Undo*" from the "*MES MoRe*" menu

Suggestions

If you have any suggestions to help us improve MES Model & Refactor, please do not hesitate to contact us:

Email: more@model-engineers.com

User Instruction

MXRAY User Guide

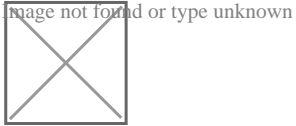
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User Guide

The MES User Guide presents clear instructions on how to work with MES Model & Refactor[®] (MoRe). It provides users with information about getting started and working with MoRe.

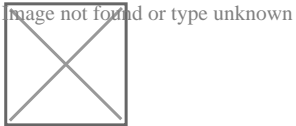
Click on "*MES MoRe*"->"*Help*"->"*Documentation*" to find a description of all actions available in MoRe (see image).

MoRe Videos



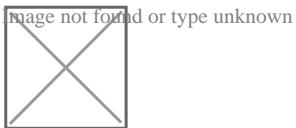
Release Update News in Brief – MES Tool Highlights

Feb 09, 2021 10:00



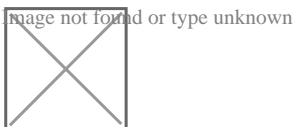
Refactoring Simulink[®] Models: 6 Secrets Revealed

Dec 09, 2020 16:00



6 Frustration-free Ways to Model with Simulink[®]

Mar 11, 2020 16:00



Model-based Design and Verification According to ISO 26262: Automated

Jan 14, 2020 16:00

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MES Webinar Series

Find all upcoming webinars. Participation in our webinars is of course free of charge. Webinars are held in English (unless otherwise stated).

Release Notes - MoRe v.2.1 (January 2021)

Improvements

- Simulink R2020a and R2020b are now fully supported. Previously, in these versions an applied MoRe action could not be undone.
- Move Interface: A new button in the dialog allows you to switch directly to the "Straighten Lines from Block" dialog for quick and easy subsequent layout optimization.
- Add Input Signal From Higher Level: The dialog is now also displayed correctly if a display scaling factor of more than 100% is set in Windows. Previously, the radio buttons were partially obscured because the total size of the dialog was too small. In addition, the tree view became too small.
- Jump to Usage Destinations: The visual appearance of the dialog was redesigned.
- Search Signal by Name: The visual appearance of the dialog was redesigned. Additionally, the search field is active when the dialog is opened. The dialog can also be closed by pressing the escape key now.
- For Matlab version 2019a and newer, MoRe is now added to the menu bar of the Stateflow editor. Even if no actions are available in Stateflow yet, this prevents the editor's navigation arrows from changing position when navigating upwards from a Stateflow diagram. This problem only occurred when no other customizations were enabled in the Stateflow editor.
- Search Signal by Name, Jump to Usage Destinations, Move Interface and Draw Model Border: When applying these actions, a warning regarding the 'JavaFrame' property is no longer issued on the command line. This previously occurred for Matlab versions 2019b and later.

Bug Fixes

- Break and Merge Subsystem: Fixed a bug that caused the loss of signal connections that directly connected an inport block to an output block within the subsystem to be merged or broken.

Complete Release Notes