19.0 LTR SP3 Version News



Released on: November 21, 2019

The SP3 release adds significant improvements to existing features: 1) the **Product Line Engineering** plugin and **Suspect Links** are expanded by implementing new capabilities; 2) we have introduced a brand new **ISO 26262 Functional Safety Plugin**; 3) users can now create **Custom Hierarchy in Tables**; and finally, 4) the latest MagicDraw version comes with bug fixes and many new enhancements to other features.

Collaborative modeling capabilities are extended with the main focus on work efficiency and agile modeling. The Lock-Free model editing mode and the D isconnected Team Collaboration UI are presented in this release. Additionally, other improvements have been made to enhance usability in Merge, Change Sets, Hidden Packages, and other collaboration-oriented features.

Download the newest MagicDraw version at nomagic.com or contact your sales representative. Don't forget to give us your feedback on LinkedIn, Twitter, or Facebook. For further information, please check the latest documentation and additional resources.

Modeling and Infrastructure

- Model-Based Product Line Engineering
- ISO 26262 Functional Safety Plugin
- Custom Hierarchy in Tables
- Suspect Links
- Further Improvements

Collaboration

- Lock-Free Model Editing
- Disconnected Team Collaboration Usability
- Further Merge Usability Improvements
- Other Enhancements

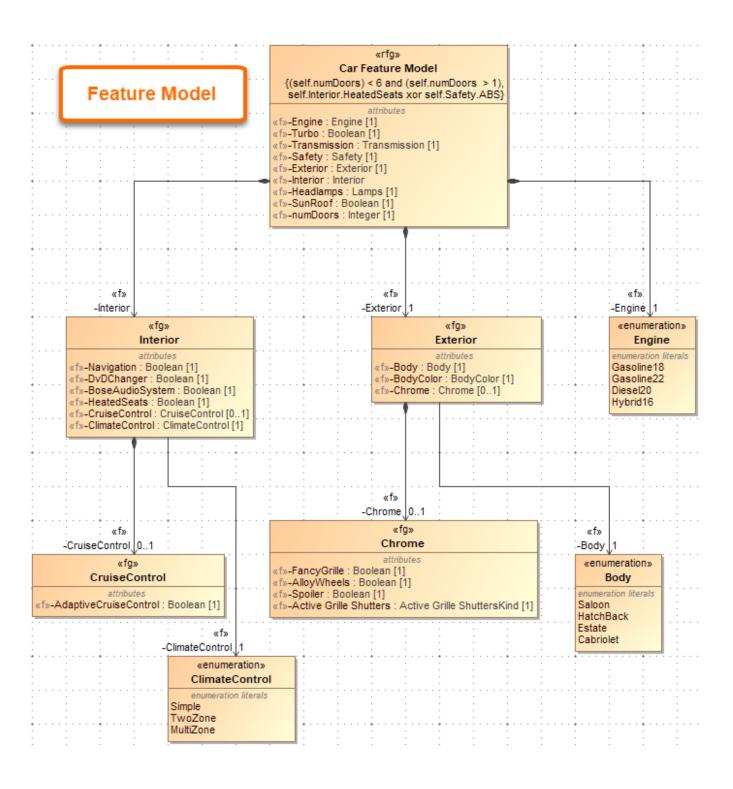
Other Features

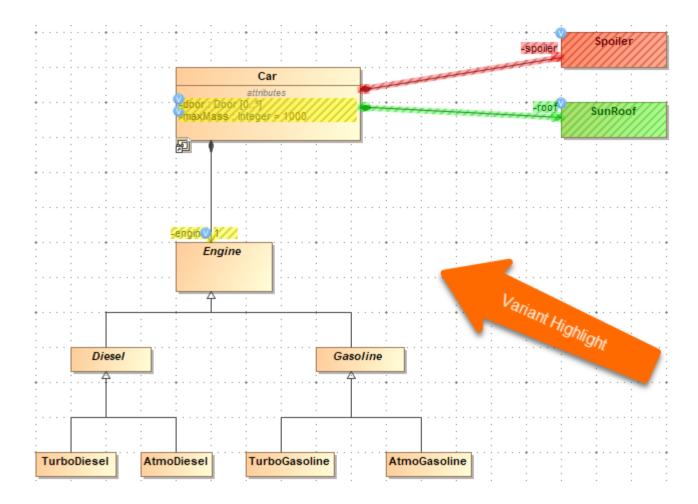
- Report Wizard
- Key Issues Fixed

Modeling and Infrastructure

Model-Based Product Line Engineering

Product Line Engineering has been significantly extended by implementing the Model-Based Product Line Engineering (MBPLE) capability. In addition to integration with PLE tools (Big Lever Software Gears and Pure Variants), it is now possible to perform PLE in modeling tools without using third-party tools.





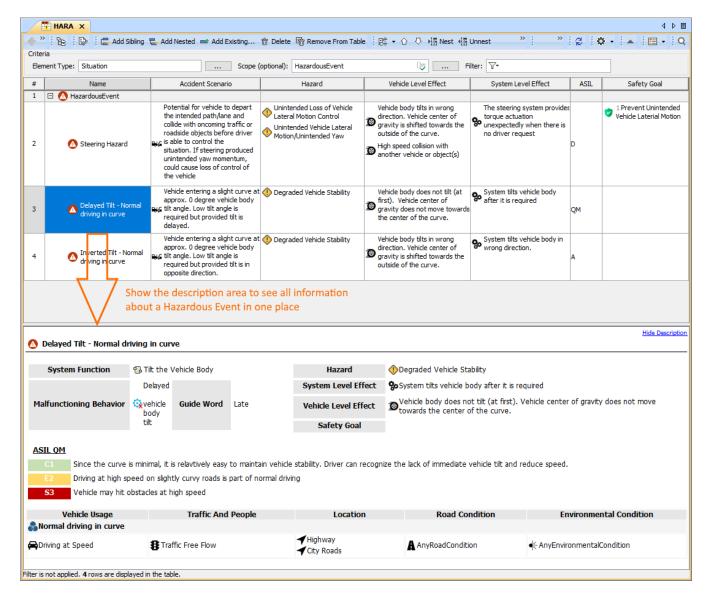
Learn more about MBPLE >>

ISO 26262 Functional Safety Plugin

We are proud to introduce the brand new ISO 26262 Functional Safety Plugin. This plugin tightly integrates functional safety with MBSE (requires SysML plugin or Cameo Systems Modeler) and supports the ISO 26262 standard (the adaptation of IEC 61508) designed to comply with needs specific to the application sector of Electric & Electronic (E/E) systems within road vehicles. The ISO 26262 Functional Safety Plugin provides end-users with the means to perform hazard analysis and risk assessment:

- Define Malfunctioning Behaviors for each Function
- Specify an Operational Condition Library
- Define Operational Situations as a combination of Conditions
- Combine Malfunctioning Behaviors with Operational Situations to define Accident Scenarios
- Specify a Hazard Library
- Define System Level and Vehicle Level Effects
- Combine Hazards, Effects, and Accident Scenarios into Hazardous Events

The plugin also provides a way to define functional safety concepts (safety requirements and perform ASIL decomposition) as well as generate safety reports.



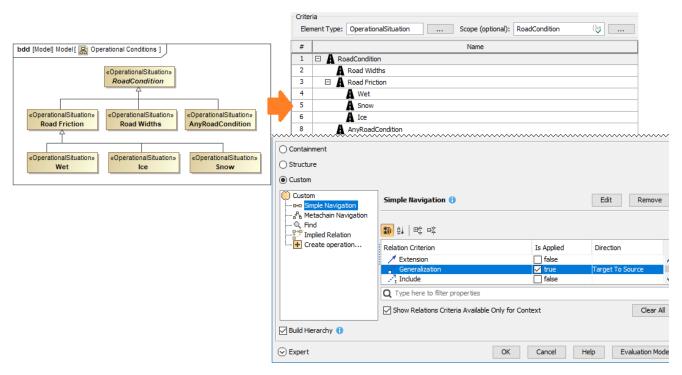
A HARA Table allows you to define Hazardous Events as a combination of Hazards, Effects, and an Accident Scenario. The description area shows all the information about the selected Hazardous Event.

Learn how to use the ISO 26262 Functional Safety Plugin >>

Custom Hierarchy in Tables

Modelers now have more freedom to decide how to organize elements in tables. Simply choose one of the tree-view options to display elements hierarchically and see the changes in the table structure reflect the criterion you have specified:

- Containment: displays the decomposition of elements related by Containment.
- Structure: displays the decomposition of Part properties related by Composition.
- Custom: displays the decomposition of elements related by any specified criteria.

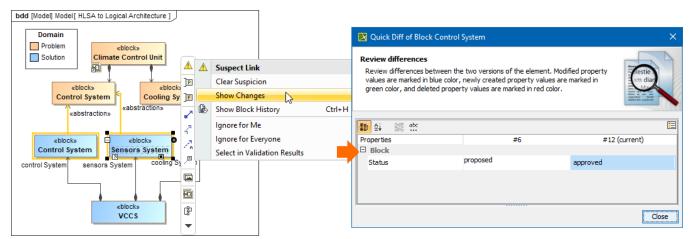


Building a custom hierarchy in a table

Learn more about building Custom Hierarchy in tables >>

Suspect Links

Stay up to date with the changes in your model by enabling the Suspect Links tracking. You can now track the changes applied to requirements linked to other model elements, as well as keep track of the changes that affect the selected model elements at the chosen end (source or target) of the specified dependencies.

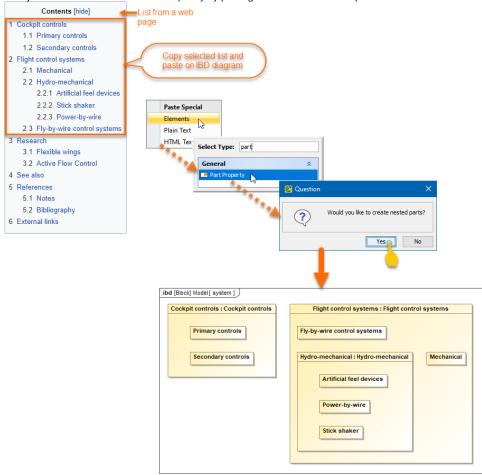


Configuring Suspect Links tracking in the model

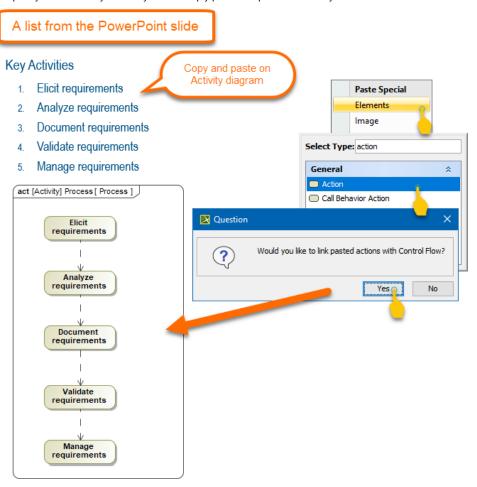
Learn more about customizing Suspect Links tracking >>

Further Improvements

• Now you can create nested structures quickly by pasting structural lists on Composite Structure and Internal Block diagrams.



• To quickly create Activity Actions you can simply paste a copied list from any source of information. The Actions will be created and connected.

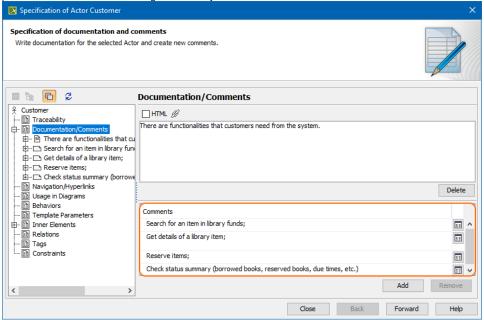


- ReqIF import/export has been improved as well. From now on, all existing images are attached to the model upon ReqIF import and added to the ReqIF file upon export.
- ID prefixes no longer come with the applied HTML styles. Instead, all IDs are imported/exported as plain text.
- It is now possible to specify the element properties to be shown on the shape by default in a few clicks.
- You can now wrap long text into multiple lines to display all of it in a table cell.
- The modeling tool now allows entering an unlimited number of entries into the table cell to enable displaying multiple values/plain text lines in a table cell.

To save time, you can now create multiple relationships in matrices simultaneously. Legend □. 1 Stakeholder Needs ∠ Refine Ė User Needs Climate Control Mass 5 ~ L L & □.. 2 Functional Analysis **品** Coo 🔁 Display Data **船** Heat Create New (Row To Column) · 🔁 Prepare System 1 Refine 1 · Reach Required Temperature · 😘 Transfer Data 1 4 Measurements of Effectiveness 1 1 ∴ MoEs Holder 1 1

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The redesigned Documentation property group in the Specification window allows you to have all comments annotating model elements in one
place as well as create and manage them easily when needed.



Collaboration

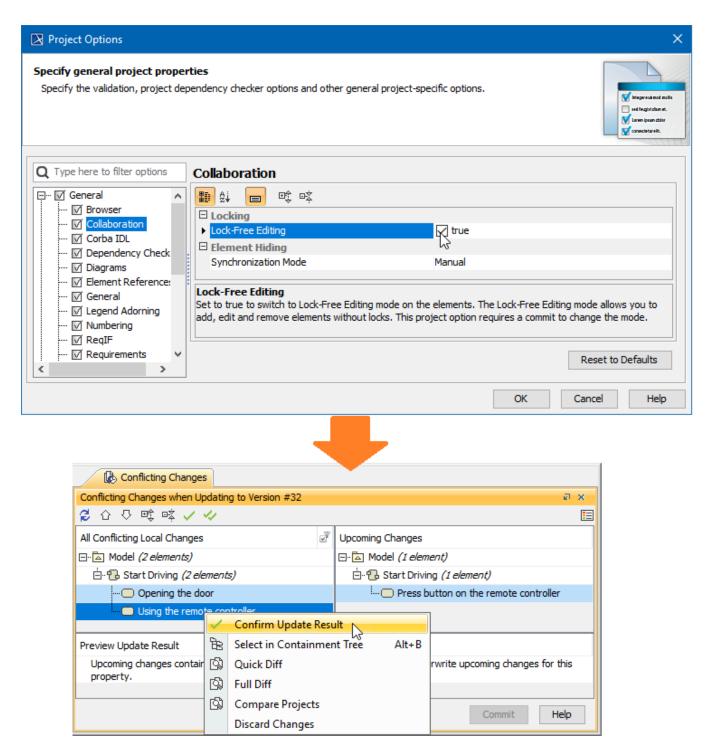
Lock-Free Model Editing

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Locking elements prior to modifying them is now a thing of the past with the introduction of the Lock-free model editing mode (a.k.a an optimistic locking). You can continue using locks if that is what suits your team's needs best; however, the Lock-Free editing mode is a simple yet effective way to boost modeling productivity.

To start using the Lock-free editing mode, first enable it in the project, after which you can work on model elements freely, without locking them. Consequently, there is no need to wait until locks are released by other users to work on the same or related parts of the model. If conflicting changes occur, you can handle them in the Conflicting Changes panel to prevent data loss.



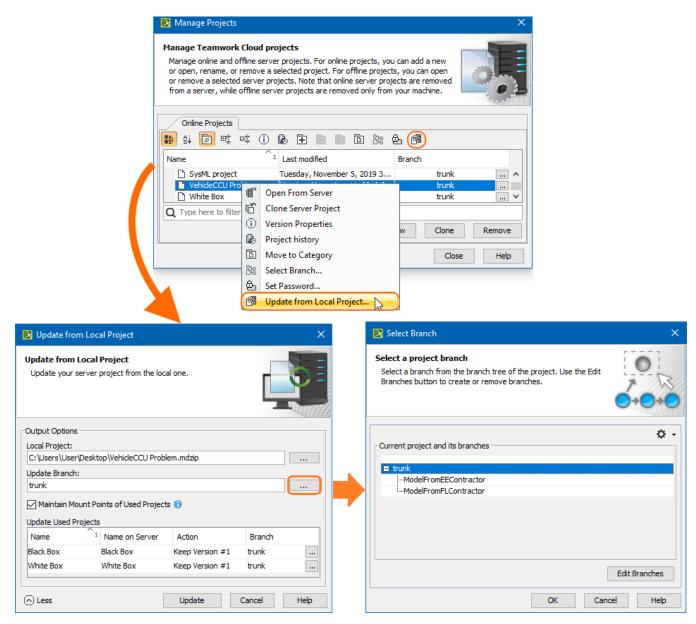
Handling conflicting changes in the Lock-free Editing mode

Learn more about Lock-Free Editing mode >>

Disconnected Team Collaboration Usability

The Disconnected team collaboration UI has been rebuilt from the ground up. The improved feature usability allows distributed teams working on the same server project to update it with the changes from the locally exported .mdzip file more conveniently and with a significantly reduced amount of manual steps.

Not only can you now update projects without having the target ones open in the modeling tool, you can also manage used project changes more easily. Additionally, the newly-implemented smart branch selection algorithm ensures configuration-aware update of server projects and smoother project merging in the future.



Updating a server project from a local .mdzip file

Learn more about Disconnected Team Collaboration usability >>

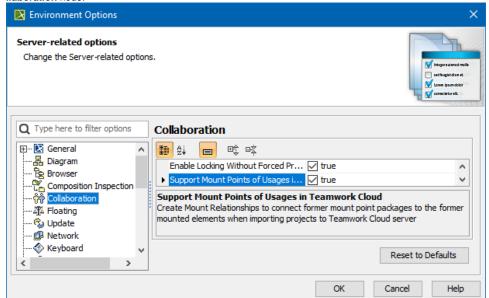
Further Merge Usability Improvements

Along with improved Merge usability and bug fixes, the 19.0 SP3 release adds adjustments to common ancestor calculation algorithm rules. As a consequence, subsequent project merging iterations can be carried out more effectively without the need to repeat previously made merge decisions.

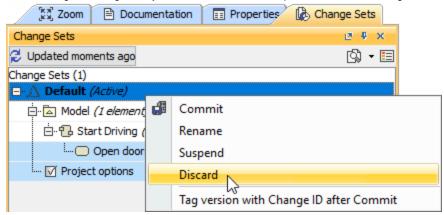
Learn more about Model Merge >>

Other Enhancements

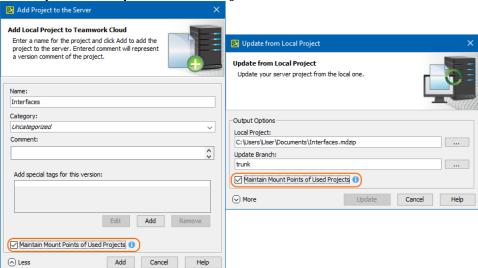
 For your convenience, we have moved an environment option Support Mount Points of Usages in Teamwork Cloud from Save/Load to the Co Ilaboration node.



• When working with change sets, you can now discard both suspended and all local changes in an active change set.



 The Maintain Mount Points of Used Projects option can now be accessed even more conveniently. It has been added to the Update from Local Project and Add Project to the Server dialogs.



Indirectly used projects can now be hidden or unhidden automatically together with directly used projects when their status changes, such as
upon the used project update, remove, or merge.

Report Wizard

- The Report Wizard allows selecting first and last hyperlinks in HTML text from cells in XLSX reports to apply them to the cells through a new Report Wizard Environment Option. Learn more how to use template.xlsx.html.link report property >>
- You can use curly brackets with the #else directive followed by text to include. Learn more about this style of code >>
- It is now possible to export images for TXT and HTML templates with or without returning relative paths or absolute paths. Learn more how to handle paths of exported images >>
- The -leaveprojectopen parameter helps reduce memory when loading or closing any large-size project for property files by leaving the project open per property file after generating reports. Learn more how to deploy this command for multiple report generation >>
- The new template.docx.ignorechildstyle report property for the DOCX template is now available for ignoring template styles to be included into generated reports and applying matching styles in the main template instead. Learn more about this report property >>

Key Issues Fixed

The following key issues have been fixed with this version:

- · An empty PDF was printed even though the diagram was fully filled
- The GanttChart diagram became empty after model obfuscation
- The SVG export did not export IDs for elements in a diagram preview
- The comments panel did not appear when the HTTP Protocol was used
- When it was impossible to create the symbol for DurationConstraint using API
- Project loading from TWC
- The Lost Message could not be created using Open API
- The MBPLE variant overwrite protection did not work on TWC
- Some expressions were not recalculated after reloading the project
- Documentation in the Properties tab could be updated only after the project reload
- There was a delay when the element was renamed in the diagram
- The error message (java.lang.lllegalStateException: No UUID map object after save) no longer appears after cloning the project

bu can check the list of publicly available issues or your own reported issues fixed in MagicDraw 19.0 SP3.

Note: You will be required to login. Use the same username and password as for www.nomagic.com.

Version news of servers and plugins

- Teamwork Cloud 19.0 SP3
- SysML Plugin 19.0 SP3
- Cameo Simulation Toolkit 19.0 SP3
- UAF Plugin 19.0 SP3
- Cameo DataHub 19.0 SP3

MagicDraw Documentation

MagicDraw 19.0 LTR

News of earlier versions

- MagicDraw 19.0 LTR
- MagicDraw 18.5 FR
- MagicDraw 18.4 FR
- MagicDraw 18.3 FR
- Product News Archive