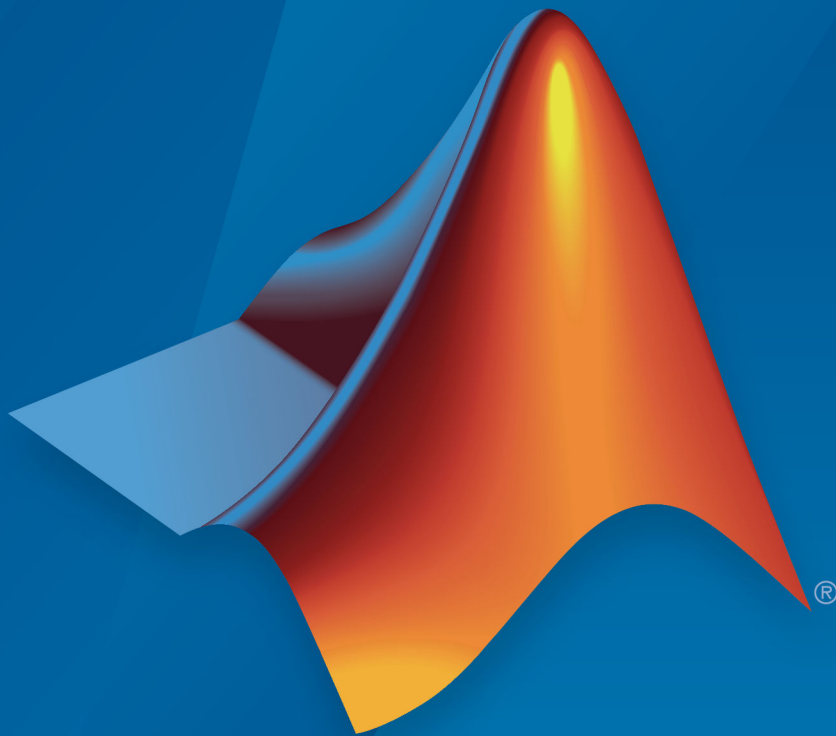


Simulink[®] Requirements[™] Release Notes



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Simulink® Requirements™ Release Notes

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R2018b

Version: 1.2

New Features

Bug Fixes

External Rich Text Editor: Use text editing and formatting features of Microsoft Word to author and edit rich text requirements

To edit rich text content in the **Description** and **Rationale** fields of your requirements, open Microsoft® Word from within the Requirements Editor or the Requirements Perspective View. You can:

- Spell-check requirements content.
- Resize images.
- Insert and edit equations.
- Insert and edit tables.

For more information, see “Author and Edit Requirements Content by Using Microsoft Word”.

Configurable Requirement and Link Types: Define custom requirement and link types for improved classification and analysis

With Simulink Requirements, you can now classify requirements by type. Define your own custom requirement types or use these types:

- **Functional:** Classify requirements that are meant to be implemented or verified in your Model-Based Design workflow. Functional requirements contribute to the Implementation and Verification status metrics of the requirement set that they are in.
- **Container:** Group requirements. Container requirements themselves do not contribute to the Implementation and Verification status metrics of the requirement set that they are in. However, all the Functional requirements under a Container requirement contribute to the status metrics.
- **Informational:** Provide supplemental information. Informational requirements and all requirements under them do not contribute to the Implementation and Verification status metrics of the requirement set that they are in.

You can also define custom requirement and link types by using the `sl_customization.m` file. See “Define Custom Requirement and Link Types”.

Incoming Link Resolution: Automatically load and display incoming links when opening artifacts stored in Simulink Projects

When you work with requirements sets in Simulink Projects, all the link sets related to your requirements sets are loaded automatically when you load the source and destination artifacts. When you close all source and destination artifacts related to loaded link sets, the link sets are automatically unloaded when no requirements reference any of the links in the link sets. For more information, see “Manage Requirements Across a Team”.

IBM Rational DOORS Next Generation Integration: Establish traceability to requirements stored in DOORS Next Generation project areas with configuration management enabled

If you are working with IBM® Rational® DOORS® Next Generation projects that have configuration management enabled, you can create links from Simulink model elements to requirements stored in streams or changesets. View link summaries and batch redirect existing links from a stream or a changeset in an IBM Rational DOORS Next Generation project to another stream or changeset in the same project. For more information, see “Requirements Traceability with IBM Rational DOORS Next Generation”.

Extended Requirements Management Capabilities: Organize, view and manage requirements content with improved indexing and updating of imported requirements content

You can now update requirements imported from Microsoft Excel® spreadsheets with nonunique **Custom Id** fields. When you work with the Requirements Editor or in the Requirements Perspective view, your window settings are saved across sessions. The saved settings are:

- Displayed columns (Requirements and Links view)
- Item sort order
- Current view (Requirements or Links view)

For more information on view settings, see “View or Hide Columns in the Requirements Editor”.

R2018a

Version: 1.1

New Features

Bug Fixes

Requirements Import with ReqIF: Import requirements information from third-party tools supporting the ReqIF standard such as IBM Rational DOORS Next Generation or Siemens Polarion

Use the Document Import Wizard to import and work with requirements from third-party tools supporting the Requirements Interchange Format (ReqIF) file format. For more information, see Import Requirements from ReqIF Files.

IBM Rational DOORS Import Wizard: Work with and manage requirements from DOORS by importing them as read-only references

Use the Document Import Wizard to import and work with requirements from IBM Rational DOORS from within Simulink Requirements. For more information, see Import Requirements from IBM Rational DOORS.

Batch Test Execution: Verify requirements by launching linked tests

If you have Simulink Test™ test cases or Simulink Design Verifier™ Proof Objective blocks linked to requirements, you can run tests from the Requirements Editor. Right-click the requirement node and select **Run Tests**. In the dialog box, select the tests to run. The Verification Status metric updates after the tests complete. For more information, see Review Requirement Verification Status Metrics Data.

Link Set Comparison: Track changes to requirements links by comparing Link Set files

Use the Link Set Comparison tool to compare link set files in your project and track changes to requirements links. For more information, see Track Changes to Requirements Links.

Simulink and Stateflow Annotation Conversion: Convert existing annotations to requirements to improve traceability, analysis, and management

Convert annotations in your Simulink models and Stateflow® charts to requirement objects that you can manage from within Simulink Requirements. For more information, see [Convert Simulink Annotations to Requirements](#).

Test Harness Support: Work with Simulink Test test harnesses from the requirements perspective

You can now enter and work with Simulink Test test harnesses from within the requirements perspective.

Requirements Report Generation: Generate requirements reports in PDF and HTML formats

You can now generate requirements reports in PDF and HTML formats. For more information, see [Report Requirements Information](#).

R2017b

Version: 1.0

New Features

Introduction to Simulink Requirements: Author, analyze, and manage requirements

With Simulink Requirements, you can author and manage requirements within Simulink. Create requirement sets, organize requirements in hierarchies, and link requirements to model entities, tests, or other requirements. You can author requirements in the Simulink Editor or the Requirements Editor. You can also import requirements from external Microsoft Word or Microsoft Excel documents.

Quickly create implementation-type links by dragging requirements from the Requirements Browser to your model. Annotate your model diagrams with requirements information and navigate to the source requirement. Trace requirements to associated model entities and tests. To help you quantify completeness of your development activities in Model-Based Design, summarize implemented and verified requirements in your set and include this information in a report. For more information, see Getting Started with Simulink Requirements.

Requirements Editor and Browser: Author, edit, and organize requirements within Simulink

You can author, edit, and organize requirements within Simulink from the Requirements Editor or the Requirements Browser in the Simulink Editor. Describe requirements with rich text and images, and organize requirements in hierarchies. The requirements view displays the hierarchy and the detailed information for each requirement. The links view displays the source, destination, and type of relationship. To perform impact analysis for your requirements, use the links view. For more information, see Author Requirements in Simulink.

Requirements Import Wizard: Import requirements content from Microsoft Word and Microsoft Excel documents

You can import requirements stored in external Microsoft Word and Microsoft Excel documents into Simulink Requirements. You can import requirements in two ways:


- As editable requirements objects, in which you make subsequent updates by using Simulink Requirements.
- As read-only requirements objects that reference the external document, in which you use Word or Excel to update your requirements. You can navigate to the external document content from a requirement object.

For more information, see [Import Requirements from Third-Party Tools](#).

Requirements Perspective: Establish requirements - design traceability and annotate your model with requirements information in the Simulink Editor

With a new requirements user interface in the Simulink Editor, you can:

- Create links by dragging requirements to model entities.
- Annotate your model block diagram with requirements information.
- Show and hide requirements information associated with your model.
- Understand traceability gaps by identifying blocks without requirements badges.

To enable the Requirements Perspective, click the  icon in the lower right of the Simulink canvas, and then click the Requirements graphic. For more information, see [Author Requirements in Simulink](#).

Requirements Change Tracking and Comparison: Automatically identify and manage changing requirements and impacts on design, models, and tests

The Requirements Editor highlights changes to requirements or links in your requirement set. You can use this information to assess potential impacts to your design, and take appropriate action. Changes to the requirement set appear in the **Change Information** section of the Requirements Editor. If a requirement change impacts your model or tests, update the related model element to meet the modified requirement. If an issue has no impact, you can clear the issue to reflect the latest revision of the requirement. For more information, see [Track Changes to Requirements Links](#).

Implementation and Verification Status Summary: Review implementation and verification status metrics for your requirements

The Requirements Editor summarizes your requirement set implementation links in the **Implementation status** column. For a particular requirement, implementation status shows whether the requirement has an implementation link. For a parent requirement or

requirement set, implementation status aggregates the implementation metrics for child requirements. For more information, see [Review Requirement Implementation Status Metrics Data](#).

The Requirements Editor also summarizes the results of verification type links in the **Verification status** column. With a Simulink Test license, verification status summarizes the results of linked test cases. With a Simulink Design Verifier license, verification status summarizes the results of linked proof objectives. For more information, see [Review Requirement Verification Status Metrics Data](#).

Requirements Reporting: Archive and document your requirements traceability, implementation status, and change history

From the Requirements Editor, you can generate a detailed report of your requirement set and links. You can include detail such as requirement description, rationale, implementation status, verification status, and revision history. Reports use Microsoft Word format. For more information, see [Report Requirements Information](#).

Simulink Verification and Validation Packaging: Moved Requirements Management Interface (RMI) features from Simulink Verification and Validation to Simulink Requirements

Linking and management features that use the Requirements Management Interface from Simulink Verification and Validation™ are now included in Simulink Requirements. You can update your RMI links to use the Simulink Requirements interface. For an example, see [Migrating Requirements Management Interface Data to Simulink® Requirements™](#).