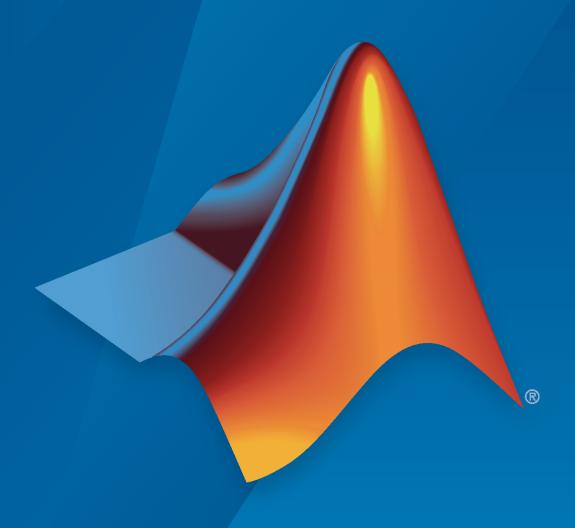
Simulink® Requirements™ Release Notes



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Simulink® Requirements™ Release Notes

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R2021a

Version: 1.7

New Features

Manage requirements with updated Requirements Editor

The Requirements Editor now contains a toolstrip to help you complete common requirements tasks more easily. The Requirements Editor toolstrip contains components that were previously available in menus and toolbars.

Some toolstrip actions are contextual and only become enabled when you select a relevant item. For example, the **Delete** button is dimmed unless you select a requirement that can be deleted.

Menu Bar Item	Toolstrip Equivalent
File > New Requirement Set Import Open (Ctrl+O) Save (Ctrl+S) Save As Export to Previous Save All Export to ReqIF	New Requirement Set Import Open (Ctrl+O) Save (Ctrl+S) Save > Save As Save > Export to Previous Save > Save All Export > ReqIF
 Edit > Cut (Ctrl+X) Copy (Ctrl+C) Paste (Ctrl+V) Delete (Del) 	Cut (Ctrl+X) Copy (Ctrl+C) Paste (Ctrl+V) Delete (Del) for requirements or Delete (Del) for links
Display > Comments Implementation Status Verification Status Change Information Analysis > Show code traceability Refresh	Information > Comments Columns > Implementation Status Columns > Verification Status Information > Change Information Information > Code Traceability Refresh

Menu Bar Item	Toolstrip Equivalent
Report >	• Export > Generate Report
Generate Report	• 📲
Generate Traceability Matrix	Traceability Matrix
Help >	2
• Authoring Requirements	Help >
• Simulink Requirements Documentation	Authoring Requirements
View drop-down menu:	• Help
-	Show Requirements
RequirementsLinks	
22.111.0	Show Links
Toolbar	•
• New Requirement Set button ()	New Requirement Set
• Open Requirement Set button ()	Open (Ctrl+O)
• Save Requirement Set/Link Set button ()	Save (Ctrl+S)
Add Requirement	
• Promote Requirement ()	Add Requirement and Add Requirement > Add Child Requirement
• Demote Requirement ()	• 🖆 Promote Requirement
Cut Requirement ()	• E Demote Requirement
• Copy Requirement ()	• Cut (Ctrl+X)
Paste Requirement ()	Copy (Ctrl+C)
• Delete Requirement/Link ()	• Paste (Ctrl+V)
• Add Justification ()	• Delete (Del) or Delete (Del)
• Refresh (©)	· 🖃
	Add Requirement > Add Justification
	Refresh

You can view more requirement or link properties by adding columns to the Requirements Editor view when you select \blacksquare Columns > Select Attributes.

Traceability Matrix: Create matrix with multiple artifacts manually or by API

In R2021a, you can create a traceability matrix with more than two artifacts when, in the **Select Artifacts** dialog, you select **Select Multiple Artifacts**. You can drag and drop artifacts to the top and left artifacts list and then generate the matrix. After you generate the matrix, you can add, remove, or reorder the artifacts. To read more about creating a traceability matrix with more than two artifacts, see "Track Requirement Links with a Traceability Matrix".

You can also create a traceability matrix by using slreq.generateTraceabilityMatrix. You can choose the artifacts manually in the Traceability Matrix window or programmatically by creating a template options structure using slreq.getTraceabilityMatrixOptions and entering the options as an argument when you use slreq.generateTraceabilityMatrix. See "Programmatically Generate a Traceability Matrix". Additionally, you can use slreq.getTraceabilityMatrixOptions to get the artifacts used in the current generated Traceability Matrix. See "Get Artifacts from the Selected Traceability Matrix".

Enhanced support for importing and exporting RegIF files

In R2021a, after you import requirements from a ReqIF^m file, you can map the SpecObjectTypes to requirement types in Simulink Requirements. See "Map SpecObjectTypes to Requirement Types".

When you import requirements from a ReqIF file, link them to Model-Based Design items such as Simulink blocks, and then export the requirement set to a ReqIF file, the exported SpecObject items have a SpecObjectType value that corresponds to the object type in MATLAB® or Simulink. For more information, see "Exporting Links".

You can now export a ReqIF file using a generic mapping regardless of which import mapping was used. The generic ReqIF mapping export now includes links. See "Using the Generic Mapping During Export".

Enhancements for linking with requirements in IBM DOORS Next

In R2021a, when you create a direct link from an item in MATLAB or Simulink to a requirement in IBM® DOORS® Next, you can choose to create the link in the module context.

Additionally, when you create direct links or link to an imported requirement that references a requirement in IBM DOORS Next, you can insert a backlink in IBM DOORS Next to navigate from the requirement in DOORS to the linked item in MATLAB or Simulink. If you created the direct link in the module context, or you imported the requirements from a module, then the backlink is also inserted in the module context. If you did not insert a backlink when you created the forward link or if the backlink was deleted, you can insert backlinks in your IBM DOORS Next project by right-clicking the link set in the Requirements Editor or Requirements Browser and selecting **Update Backlinks**.

See "Requirements Traceability with IBM DOORS Next" and "Manage Navigation Backlinks in External Requirements Documents".

Improved loading of link information

In R2021a, in order to improve link loading performance, loading one of the artifacts or a requirement set will correspond to the explicitly requested requirements data. For more information, see "Load Link Information".

oslc Object: Access OSLC services with command-line client

You can now use a command-line OSLC client in MATLAB to communicate with OSLC providers. You can use the client to integrate third-party requirements management, quality management, and change management tools with Simulink Requirements.

After you provide authentication credentials, you can query a service provider for existing OSLC resources and fetch all properties of the resource. You can commit changes to the provider from MATLAB when you add, update, or delete resources.

You can access the in-line help for these classes at the MATLAB command line:

- oslc.Client
- oslc.core.QueryCapability
- oslc.core.CreationFactory
- oslc.core.Dialog
- oslc.rm.Requirement
- oslc.rm.RequirementCollection
- oslc.qm.TestCase
- oslc.qm.TestScript
- oslc.qm.TestPlan
- oslc.gm.TestExecutionRecord
- oslc.gm.TestResult
- oslc.cm.ChangeRequest

Programmatic interface enhancements

- Get an object for the currently selected item in the Requirements Editor or Requirements Browser by using slreq.getCurrentObject.
- Use slreq.getExternalURL to get a navigation URL and object label for a linkable item to navigate from an external browser to a link source or destination, requirement, test, or Simulink model element. In the Requirements Editor or Simulink Editor, you can copy the navigation URL to your clipboard by right-clicking a requirement, model element, or Simulink data dictionary entry and selecting Copy URL to Clipboard or Requirements > Copy URL to Clipboard.

R2020b

Version: 1.6

New Features

Traceability Matrix: Select multiple cells, create and delete links in batch, track changes, and export

You can select multiple cells in the Traceability Matrix by clicking and dragging, or pressing **Shift** and clicking the cells. You can toggle cells by pressing **Ctrl** and clicking the cells.

You can also create or delete multiple links at a time by selecting multiple cells and clicking **Create Link** or **Remove Link**.

You can track changes in the Traceability Matrix when requirements change. When a requirement changes, you can highlight the cell and the link artifacts in the row and column of the matrix that correspond to the changed link by clicking **Highlight Missing Links** > **Highlight Changed Links**. Additionally, you can:

- Clear change issues directly from the Traceability Matrix by clicking Clear Change Issue.
- Clear change issues for multiple cells at a time.
- Filter the matrix to only show items that have a change issue by clicking **Highlight Missing** Links > Show Changed Links Only.

You can export the current state of the Traceability Matrix to an HTML report or to a MATLAB variable that contains table data or by using **Export > Generate HTML Report** or **Export > Create MATLAB Variable**, respectively.

Additionally, when you create a Traceability Matrix with a System Composer™ model as an artifact, the Traceability Matrix hierarchy now contains any System Composer views associated with the model.

For more information, see Track Requirement Links with a Traceability Matrix.

Customize link sets and links with custom attributes programmatically or in the Requirements Editor

You can now create custom attributes and set their corresponding values for link sets and links. You manage custom attributes for link sets and links in the same way you manage custom attributes for requirement sets and requirements. In the Requirements Editor, use the **Custom Attribute Registry** and **Custom Attributes** panes to manage custom attributes for link sets and links, respectively.

Additionally, you can now manage custom attributes for links and requirements programmatically:

- View, add, update, and remove attributes for a LinkSet or a ReqSet using inspectAttribute or inspectAttribute, addAttribute or addAttribute, updateAttribute or updateAttribute, and deleteAttribute or deleteAttribute, respectively.
- View custom attribute names for a LinkSet with the CustomAttributeNames property.
 Previously, you could view custom attribute names for a ReqSet with the CustomAttributeNames property.
- Find a Link that matches a custom attribute value with slreq.find or the find method. Previously, you could find a Requirement that matches a custom attribute value with slreq.find or the find method.
- View and change the custom attribute value of a Link with getAttribute and setAttribute. Previously, you could view and change the custom attribute value of a Requirement using getAttribute and setAttribute.

For more information on managing custom attributes in the Requirements Editor, see Customize Requirements with Custom Attributes and Customize Links with Custom Attributes.

For more information on managing custom attributes programmatically, see Manage Custom Attributes for Requirements by Using the Simulink® Requirements $^{\text{\tiny TM}}$ API and Manage Custom Attributes for Links by Using the Simulink® Requirements $^{\text{\tiny TM}}$ API.

Verify requirements with MATLAB-based Simulink Tests

In R2020b, you can link requirements to Simulink Test™ test cases written in the MATLAB Editor when you create a MATLAB-based Simulink test. See Test Models Using MATLAB-Based Simulink Tests (Simulink Test). You can use the Traceability Matrix, MATLAB Editor, and Simulink Test Test Manager to create these links. Additionally, you can view the verification status of requirements in the Requirements Editor and Requirements Browser when you link requirements to these test cases.

User interface enhancements

• You can clear more than one change issue at a time in the Requirements Editor when you select multiple links, right-click them, and select **Clear Issue** from the context menu.

Programmatic interface enhancements

- Move and copy a requirement or justification: You can move a single Requirement or Justification programmatically by using move or move, moveDown or moveDown, and moveUp or moveUp, respectively. You can copy a single Requirement or Justification by using copy or copy, respectively.
- View Index property: You can now view Index, a Requirement property, programmatically.

Model Testing Dashboard

The Model Testing Dashboard collects and displays metric data on the status and quality of your requirements-based testing. Assess the testing status of a model by using the dashboard to view:

- Summary data on requirements, tests, and traceability between requirements and tests
- · Status and results for the latest test runs
- Model coverage measurements achieved by tests and justifications
- A list of the latest artifacts in the project, organized by the associated models

For more information, see "Model Testing Dashboard: Track completeness of requirements-based testing for compliance to standards such as ISO 26262" (Simulink Check). To use this feature, you must have a Simulink Check" license.

R2020a

Version: 1.5

New Features

Traceability Matrix: Review and analyze links in a matrix format

You can review and analyze requirements, links, and model entities by creating a traceability matrix. A traceability matrix summarizes traceability links and their sources and destinations, such as requirements, models, or test cases. You can:

- Identify missing or incorrect links.
- · Create missing links.
- Fix incorrect links.
- Display requirements that are linked to model elements.
- Inspect links by navigating to their sources or destinations.
- Filter by requirement type, link type, or model hierarchy.
- Confirm model and requirement completeness.

To create a traceability matrix,

- 1 In the **Requirements** tab, select **Share > Open Requirements Traceability Matrix**.
- **2** Click **Add** to create a matrix.

For more information, see Track Requirement Links with a Traceability Matrix.

Include results from external sources in verification status

Requirements-based tests can run outside of the Simulink environment, such as using MATLAB scripts or continuous integration servers, such as Jenkins $^{\text{\tiny TM}}$. You can include external test results in the requirements verification status by linking to scripts or results files. To include external results in requirements verification status:

- Create a link type to your test script or result file. Use plug-ins for the format, such as TAP, JUnit, or Excel[®].
- **2** Link from the requirement to the test script or result file.
- Wiew the verification status in the in the **Verified** column of the Requirements Editor and Requirements Browser.

For more information, see Include Results from External Sources in Verification Status.

View, link, and sync IBM Rational DOORS Next Generation requirements

You can now capture a requirements module or subset of requirements directly from IBM Rational[®] DOORS Next Generation (DNG). In Simulink Requirements, you can link these requirements to your model or MATLAB code, and refresh the requirement set if the source in DNG changes. You can capture requirements by specifying:

- · A DNG module
- A DNG query

Capturing DNG items from a module or query enables you to directly use DNG requirements as a source, without intermediate ReqIF conversions. You can work with captured requirements without an active connection to the DNG server.

For an example, see the section **Capture DNG Collections into Simulink Requirements Set** in Link with Requirements in DOORS Next Generation Project.

Link from ports in System Composer

You can link from requirements to ports in a System Composer architecture model.

User interface enhancements

- You can select multiple requirements and links in the Requirements Browser and Requirements Editor. You can link and delete multiple selected items.
- You can display a requirements description and rationale in the Requirements Browser.

Programmatic interface enhancements

- Determine links in a link set: You can return the links in a LinkSet using getLinks.
- Navigate to link source and destination: You can navigate to a Link source or destination using slreg.show.
- slreq.find has been re-implemented to improve performance when operating on large sets of requirements and links. For example, this command to find a single link in a set of approximately 1200 links runs approximately 2 orders of magnitude faster:

```
function timingTest
    slreq.find('type','Link','SID',63)
end
```

The approximate execution times are:

R2019b: 1.09 sR2020a: 0.01 s

The code was timed on a Windows® 10, Intel® Core™ i7-8650U CPU @ 1.90 GHz system by calling the function timingTest.

R2019b

Version: 1.4

New Features

Contextual Tabs in the Simulink Toolstrip for Simulink Requirements

In R2019b, the Simulink Toolstrip replaces Simulink menu bar. See "Simulink Toolstrip: Access and discover Simulink capabilities when you need them" for more details. The location of several Simulink Requirements features and buttons are located in contextual tabs that appear when you need them.

- 1 Click on **Apps**.
- 2 Under Verification, Validation, and Test, you can open the Requirements Manager tab or the Requirements Viewer tab.

The **Requirements Manager** tab also appears when you open the Requirements Perspective.

Improved Requirements Exchange with ReqIF

You can import multiple source specifications from Requirements Interchange Format (ReqIF) files. When you import ReqIF files that contain multiple source specifications, you can choose to:

- Import only a single RegIF source specification into a requirement set.
- Combine ReqIF source specifications into one requirement set. After importing, each specification corresponds to a node in the requirement set. You can update nodes independently if the content of the ReqIF file changes.
- Import each ReqIF source specification into a separate requirement set. You select a folder, and the import operation creates multiple requirement set files in that folder.

Also, import supports exchange links in RegIF files, which are represented in link sets.

For more information, see Import Requirements from ReqIF Files.

Navigation Support for Baselines in IBM Rational DOORS 9

You can now link requirements to a baseline version of a DOORS 9 module. A baseline version remains consistent if the most recent DOORS 9 module changes. If your model or code reflects baseline requirements, link to the baseline DOORS 9 version.

Set the baseline version using slreq.cmConfigureVersion, and query the active baseline version using slreq.cmGetVersion.

Enhanced Web View Reports for Reviewing Requirements and Links

With Simulink Report Generator, you can generate a Simulink Web View of your model that now includes requirements and requirements property information. In the Simulink model, open the Requirements Perspective. In the **Requirements** tab, click **Share** \rightarrow **Export Model to Web View**.

For more information on Simulink Web Views, see Web Views (Simulink Report Generator).

Programmatically Modify Link Source and Destination

In R2019b, you can use the new setSource and setDestination methods to modify link source and destination targets.

External Source Document Change Notification

If you have requirement references to external source documents, the Requirements Editor now notifies you of updates to the source documents. If a source document has changed since the most recent import or update operation:

- The top import node displays a notification icon.
- The **Data Exchange** pane displays a status message.

For more information, see Update Imported Requirements.

R2019a

Version: 1.3

New Features

Round Trip Workflow with Requirements Tools: Exchange requirements with third-party requirements tools through ReqIF

Simulink Requirements now supports round trip importing and exporting using the open standard ReqIF (Requirements Interchange Format) file format. The round trip workflow can be broadly subdivided into three categories:

- Import: Use attribute mappings to define how the attributes of a requirement in Simulink Requirements relate to the attributes of an external requirement represented by a different third-party requirements management application. When you import requirements from a ReqIF file, Simulink Requirements detects the source tool for the ReqIF file and applies a pre-configured attribute mapping. You can also customize and save attribute mapping templates.
- **Edit**: Provide supplementary information to imported requirements by adding custom attributes and editing requirements content.
- **Export**: Export locally authored requirements and referenced requirements with local edits and additional attributes to ReqIF files.

For more information, see Round Trip Workflows with RegIF Files.

Navigation Backlinks for Third-Party Requirements: Manage backlinks in external requirement documents that enable you to navigate to Simulink model elements

When you work with requirements from an external requirements document, you can insert, delete, and modify navigation backlinks in the external requirements document that match the set of links stored by Simulink Requirements. Use these navigation backlinks to navigate from the external document to Simulink and MATLAB artifacts. For more information, see Manage Navigation Backlinks in External Requirements Documents.

Integration with System Composer: Link requirements to architecture models in System Composer

Link and trace requirements to architecture components in System Composer models.

Usability Enhancements

- Reorder requirements in the Requirements Spreadsheet by using drag-and-drop functionality.
- Link requirements to area annotations on the Simulink Editor by dragging and dropping. A badge appears on the annotation to show that a link was created. Click the badge and click **Show** to display a requirement annotation on the Simulink Editor.
- All link sets on the MATLAB or project path with incoming links to a requirement set 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 unloaded when no requirements reference any of the links in the link sets. For more information, see Review Requirement Links.
- Simulink Requirements now uses short names on the MATLAB path as the default path setting in the **Document file reference** option on the **Selection Linking** tab of the Requirements Settings dialog box.

• Starting from R2019a, MATLAB uses HTTPS as the default connection protocol. HTTP connections are disabled by default. Run rmi('httpLink') at the MATLAB command prompt to enable HTTP to navigate from third-party tools and web reports to artifacts in Simulink Requirements.

Simulink Requirements contextual tab in the Simulink Toolstrip

In R2019a, you have the option to turn on the Simulink Toolstrip. For more information, see Simulink Toolstrip Tech Preview replaces menus and toolbars in the Simulink Desktop (Simulink).

The Simulink Toolstrip includes contextual tabs — they appear only when you need them. The Simulink Requirements contextual tabs include options for completing actions that apply only to Simulink Requirements.

- Access the **Requirements Manager** tab by entering the Requirements Perspective View.
- Access the **Requirements Viewer** tab from the **Apps** tab on the Simulink Toolstrip.

Code Traceability: Include outgoing traceability links from external MATLAB code referenced by MATLAB Function Blocks in code generation report

The code generation report from Embedded Coder® now includes requirement traceability links for MATLAB files saved externally from the Simulink model and referenced from MATLAB Function blocks in Simulink. For more information, see Traceability Links in Code Generation Reports.

Report Generation Enhancements: Include change information in requirements report

You can include requirements and links change information in the generated requirements report. All change issues are summarized in a table in the Requirements Report Appendix.

R2018b

Version: 1.2

New Features

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, allthe 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 non-unique **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

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 $^{\text{TM}}$ 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 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 $^{\text{\tiny TM}}$ 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 $^{\text{\tiny TM}}$.