

MATLAB and Simulink Report Generator Release Notes

The “MATLAB and Simulink Report Generator 1.3 Release Notes” on page 1-1 describe the changes introduced in the latest version of the MATLAB and Simulink Report Generators. The following topics are discussed in these Release Notes:

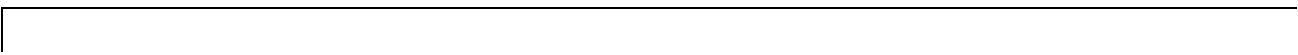
- “New Features” on page 1-2
- “Upgrading from an Earlier Release” on page 1-4
- “Known Software and Documentation Problems” on page 1-5

The release notes for these products also provide information about the earlier versions of the products, in case you are upgrading from a version that was released prior to Release 12.1. If you are upgrading from a release earlier than Release 12.1, you should also see these sections:

- “MATLAB and Simulink Report Generator 1.2 Release Notes” on page 2-1
- “MATLAB and Simulink Report Generator 1.1 Release Notes” on page 3-1

Printing the Release Notes

If you would like to print the Release Notes, you can link to a PDF version.



MATLAB and Simulink Report Generator 1.3 Release Notes

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MATLAB and Simulink

Report Generator 1.3 Release Notes

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New Features

Note These Release Notes document both the MATLAB Report Generator 1.3 and the Simulink Report Generator 1.3.

This section summarizes the new features and enhancements introduced in the Report Generator 1.3.

If you are upgrading from a release earlier than Release 12.1, then you should see “New Features” on page 2-2 in the MATLAB and Simulink Report Generator 1.2 Release Notes.

MATLAB Report Generator New Features

Enhancements to Formatting Components

Component	Purpose
Cell Table	You can now specify table column widths.

Enhancements to Report Generator Components

Component	Purpose
Import File	You can now import formatted text from RTF and HTML source files.

Simulink Report Generator New Features

Report Generator now supports Stateflow Notes.

New Simulink Component

Component	Purpose
Block Type: Documentation	Inserts text extracted from Doc Blocks in Simulink models

Enhancements to Simulink Components

Component	Enhancement
Block Type: Scope Snapshot	Improved viewing of multiple black and white traces
System Snapshot	You can now specify titles for the diagrams. You can now specify the size of the diagrams.
Block Type: Look-Up Table	You can now report on the Pre-Lookup table.

Enhancements to Stateflow Components

Component	Enhancement
Stateflow Snapshot (chart)	You can now specify titles for the diagrams.

Upgrading from an Earlier Release

There are no upgrade issues moving from the Report Generator 1.2 to the Report Generator 1.3.

If you are upgrading from the Report Generator 1.0 to the Report Generator 1.3, then you should see “Upgrading from an Earlier Release” on page 3-7 in the MATLAB and Simulink Report Generator 1.1 Release Notes.

Known Software and Documentation Problems

This section includes a link to a description of a known software problem in Version 1.3.

If you are viewing these Release Notes in PDF form, please refer to the HTML form of the Release Notes, using either the Help browser or the MathWorks Web site and use the link provided.

MATLAB and Simulink Report Generator 1.2 Release Notes

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New Features

Note These Release Notes document both the MATLAB Report Generator 1.2 and the Simulink Report Generator 1.2.

This section introduces the new features and enhancements added in the Report Generator 1.2 since the Report Generator 1.1 (Release 12.0).

Simulink Report Generator New Features

Block Type: Look-Up Table Component Reports on N-D Look-Up Tables

The Simulink Report Generator 1.2 component Block Type: Look-Up Table allows you to report on the following N-D Simulink look-up tables, in addition to the Look-Up Table and Look-Up Table (2-D) that were supported in earlier releases:

- Look-Up Table (n-D)
- Direct Look-Up Table (n-D)

Note that the table created for the N-D data is a 2-D slice through the N-D data.

Real-Time Workshop Requirement Removed for Some Components

The **By simulation order** option for sorting blocks no longer requires having the Real-Time Workshop product installed. The components affected by the removal of the Real-Time Workshop requirement for this option are:

- Block Loop
- Chart Loop
- Fixed-Point Block Loop
- Object Summary Table

Also, the Block Execution Order component no longer requires Real-Time Workshop.

Image Titles for Snapshot Components

You can add titles to images for the System Snapshot and Stateflow Snapshot (chart) components. This is in addition to the caption option that was available in earlier releases.

Upgrading from an Earlier Release

There are no upgrade issues moving from the Report Generator 1.2 to the Report Generator 1.3.

If you are upgrading from the Report Generator 1.0 to the Report Generator 1.3, then you should see “Upgrading from an Earlier Release” on page 3-7 in the MATLAB and Simulink Report Generator 1.1 Release Notes..

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New Features

Note These Release Notes document both the MATLAB Report Generator 1.1 and the Simulink Report Generator 1.1.

This section introduces the new features and enhancements added in the MATLAB Report Generator 1.1 since the MATLAB Report Generator 1.0 (Release 11.0).

MATLAB Report Generator New Features

New MATLAB Components

The MATLAB Report Generator 1.1 includes the following three new components.

Component	Purpose
Comment	Inserts a comment into the SGML source file created by the report generation process
MATLAB/Toolbox Version Number	Creates and inserts a table that shows the version number, release number, and/or release date of any MathWorks software you are currently using
Stop Report Generation	Halts report generation

Enhancements to MATLAB Components

The following components have been enhanced for Release 12:

- You can now put an image on a title page. See the Title Page component reference section for details.
- The Nest Setup File component now has a recursion limit.
- The For Loop component now allows a vector of indices.

Property Table Enhancement

For all property tables, you can now use a context menu to add rows above or below the current cell and add columns to the left or right of the current cell.

Summary Table Enhancement

For all summary tables, you can now use embedded looping components for table item generation.

Using MATLAB Variables with Components

You can enter `%<VariableName>` in any component field where the text appears blue to include the value of a variable from the MATLAB workspace. You cannot enter more than one variable in the `%<>`. If you enter an invalid variable name, then the report will contain `%<VariableName>` instead of the value of the variable.

This `%<VariableName>` syntax is supported for the following components:

- Image
- Link
- Report Options
- Text
- Variable Table

Example. If you enter the following

```
I have a %<ObjName> and it has %<NumLeaves> leaves. The word  
'%<ObjName>' has %<size(ObjName)> letters.
```

and if `ObjName='plant'` and `NumLeaves=3` in the MATLAB workspace, then the report will contain the following.

```
I have a plant and it has 3 leaves. The word 'plant' has 5 letters.
```

Simulink Report Generator New Features

New Simulink Components

The Simulink Report Generator 1.1 includes the following new Simulink components.

Component	Purpose
Block Automatic Property Table	Creates a two-column property name/property value table
Block Type: Bus	Creates a list of all signals exiting from a Bus Selector block
Block Type: Look-Up Table	Reports on one-dimensional and two-dimensional look-up table blocks
Model Change Log	Uses a reported model's ModifiedHistory parameter to construct a model history table that displays information about each logged revision to the model

New Stateflow Components

The Simulink Report Generator 1.1 includes the following new Stateflow components.

Component	Purpose
Chart Loop	Runs its children for each Stateflow chart that you choose
Stateflow Linking Anchor	Designates a location to which other links point (for use with Stateflow)
Stateflow Name (Chart)	Inserts the name of the Stateflow object specified by its parent component into the report

New Fixed-Point Components

The following components have been added to the Simulink Report Generator 1.1 to support the Fixed-Point Blockset 3.0.

Component	Purpose
Fixed-Point Block Loop	Runs its children for the Simulink model, system, or signal defined by its parent component; for example, if the Fixed-Point Block Loop is parented by the Simulink Model Loop, it will run its children for all fixed-point blocks in the Simulink model.
Fixed-Point Logging Options	Sets fixed-point options similar to those set in the Fixed-Point Blockset Interface GUI
Fixed-Point Property Table	Inserts a property name/property value table for a fixed-point block
Fixed-Point Summary Table	Shows properties or parameters of the selected fixed-point blocks in a table

Enhancements to Simulink Components

The following components have been enhanced for Release 12.

Component	Enhancement
Block Loop	You can create a loop list manually.
Object Report	New box object added
Block Type: Scope Snapshot	You can add captions.
Signal Loop	You can remove input/output/internal signals from a loop.
Stateflow Snapshot (chart)	You can turn off callouts.

Component	Enhancement
System Hierarchy	New list style (bulleted or numbered) control added
System Loop	You can loop on a manually created list of systems
System Snapshot	You can add captions.

Upgrading from an Earlier Release

This section describes the upgrade issues involved in moving from the Report Generator 1.0 to later versions of the Report Generator.

Use of Existing SGML Files

If you generated a report using the MATLAB Report Generator 1.0 and saved the report file as an SGML file, and then you try to convert that SGML file using the Report Generator 1.3 `rptconvert` program, the conversion fails.

In such cases, you need to regenerate the SGML file using the Report Generator 1.3.

