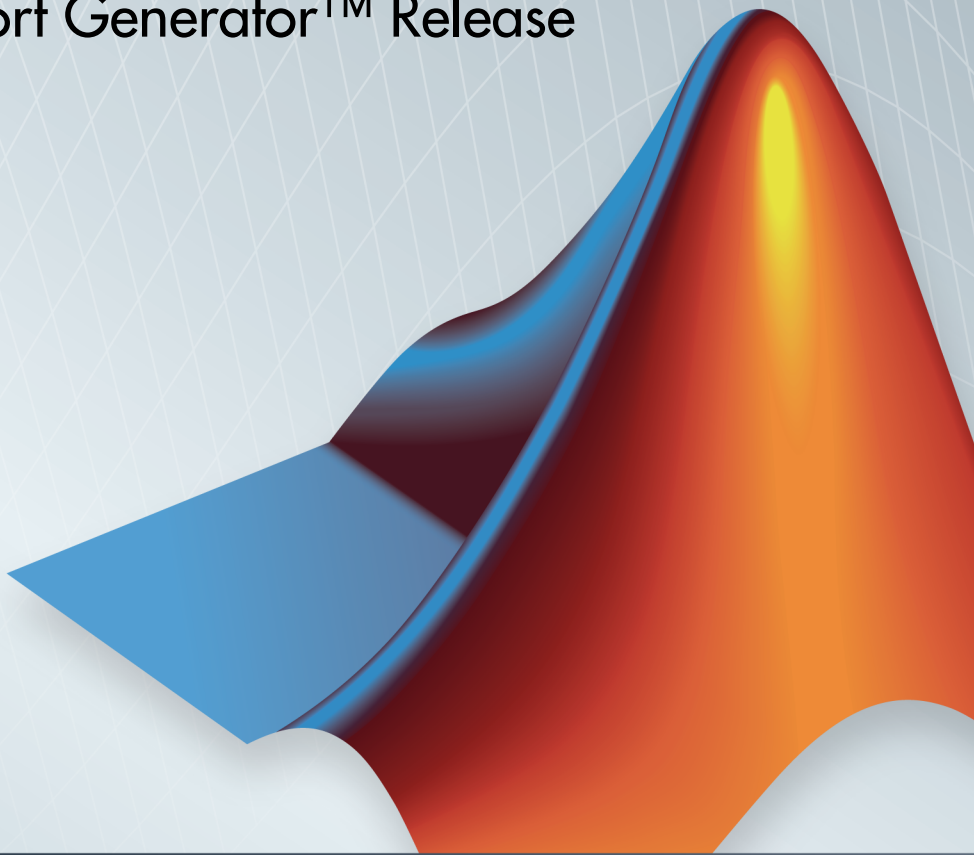
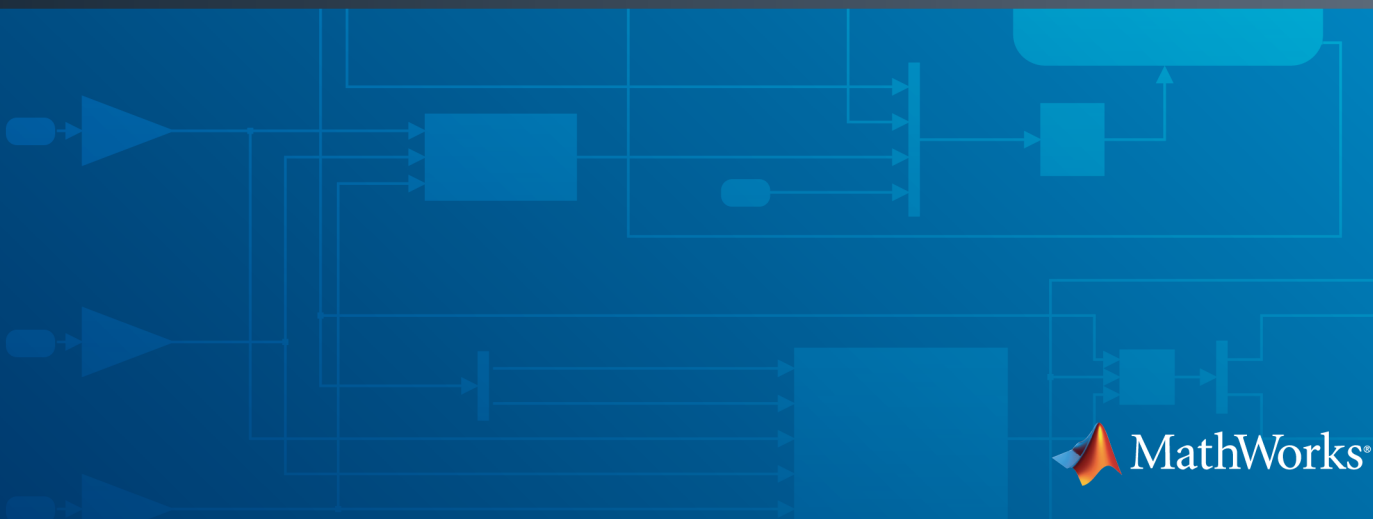


MATLAB[®] Report Generator[™] Release Notes



MATLAB[®]



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MATLAB[®] Report Generator[™] Release Notes

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R2014b

Version: 4.0

New Features

Bug Fixes

Report formatting based on Word and HTML templates

You can use Microsoft® Word or HTML templates for reports that you create using:

- The Report Explorer. For details, see “Generate a Report Using a Template”.
- MATLAB® report objects. See “Document Object Model”.

MATLAB report objects for creating report scripts

You can use the DOM (Document Object Model) API to create MATLAB programs to generate reports. The DOM API provides a set of objects for creating text, paragraphs, tables, images, lists, and other kinds of report content. When you create a report program, you can:

- Produce Microsoft Word, HTML, and PDF output using the same code.
- Specify formatting for report objects, such as color and bold for text objects.
- Use format objects (for example, **Bold** and **FontFamily**) to format report objects.
- Add MATLAB data directly to report objects (for example, a `char` array to a `Text` object).
- Use formatting and fixed content that is defined in a Word or HTML template.
- Create form-based reports that contain fixed and generated content.
- Modularize a report into parts for generation of reports that have repetitive elements of the same format.

For information about how to create report programs, see “Document Object Model”.

Fast file converter with reduced memory requirements

Generate template-driven reports much faster than in previous releases, without using Java memory.

To take advantage of these performance advantages, use one of these **File format** report options:

- HTML (from template)
- PDF (from template)
- Word (from template)

For details, see “Report Generation Using Templates”.

Zipped package option for HTML reports

You can use a zip file to package reports that use an HTML template. Zip file packaging compresses and consolidates the files. You can also package the HTML files as unzipped files or as both zipped and unzipped files.

Fill-in-the-blanks Word and HTML forms for generating reports

You can use the DOM (Document Object Model) report objects in a MATLAB program along with Word and HTML fill-in-the-blanks templates that contain fixed and holes to include generated content. The report program uses report objects to generate the variable information. See “Form-Based Reporting”.

Color settings preferences in MATLAB Comparison Tool

You can now change and save your diff color preferences for the MATLAB Comparison Tool. You can apply your color preferences when comparing text files, MAT-files, variables, zip files or folders.

R2014a

Version: 3.16

New Features

Bug Fixes

OpenOffice support

On Linux[®] and Macintosh platforms, the report output appears in Apache OpenOffice if you:

- Set **File format** to either Word Document (RTF) or Rich Text Format
- Enable **View report generation**

In the MATLAB Report Generator™ Preferences, the **View command** preference default now enables viewing the report in OpenOffice for Linux and Macintosh platforms.

For details, see Report Output Format and Stylesheet.

R2013b

Version: 3.15

Bug Fixes

R2013a

Version: 3.14

Bug Fixes

R2012b

Version: 3.13

Bug Fixes

Non-English character set report formats

The MATLAB Report Generator provides basic PDF font support for:

- English
- Japanese
- Korean
- Russian (Cyrillic)

You can use the language font map to:

- Add or modify specifications for PDF font usage for supported non-English languages.
- Create PDF font support for a non-supported language.
- Change the default English fonts, if you do not specify a stylesheet.

The language font map specifications indicate what font to use on a specific platform (for example, Windows[®]) for basic report elements such as body text. For details, see PDF Fonts for Non-English Platforms.

R2012a

Version: 3.12

New Features

Bug Fixes

Compatibility Considerations

Enhanced Table Components

You can use the following new components to create and format a table:

- Table
- Table Column Specification
- Table Header
- Table Body
- Table Footer
- Table Row
- Table Entry

Formatting options that the Table component and its child components support include:

- Text color and alignment
- Row background colors
- Inclusion of images
- Inclusion of hyperlinks
- Table cells spanning columns and rows

You can conditionally control the content or format of a table.

For more information, see [Table Formatting Components](#).

Compatibility Considerations

Releases earlier than R2012a included a different Table component. Starting in R2012a, that component is now called the Array-Based Table component.

The Array-Based Table component produces the same output, and has the same properties, as it did when it was called the Table component. The Array-Based Table component converts a rectangular array into a table and inserts the table into the report.

If a report that was created in a previous release already includes a Table component, the output is the same as in previous releases. To change property values for that component in R2012a or later, use the Array-Based Table dialog box.

Title Page Formatting Enhancements

For PDF and HTML reports, you can use the Stylesheet Editor to position title page elements (for example, title, copyright, and images) anywhere on the front or reverse side of the title page in any order. You can specify the size, color, weight, and slant of text elements.

For details, see [Modify Title Page Properties](#).

Text Component Supports Subscripts and Superscripts

You can include a subscript or superscript in a paragraph, using a Text component.

R2011b

Version: 3.11

New Features

Bug Fixes

Full Page Image Option for PDF Reports

To display full-page images in PDF reports, set the **Paper orientation** property to the new **Full page image (PDF only)** option. The following components provide this new option:

- Axes Snapshot
- Figure Snapshot

The Image component has a **Full page image (PDF only)** check box, which provides the same functionality as the **Full page image (PDF only)** property option.

Include Legal Notice, Report Creation Date, and Copyright on the Title Page

The Title Page component includes a new **Display legal notice on title page** check box. Use this option to include the legal notice, report creation date, and copyright information on the title page of reports that use PDF or Microsoft Word format.

R2011a

Version: 3.10

New Features

Bug Fixes

Improved PDF Pagination

Reports generated using PDF output format produce better pagination, including:

- Section titles are on the same page as the associated text (now section titles cannot appear as orphans at the bottom of a page).
- Captions are on the same page as their associated images.

Export XML Comparison Results to the Workspace

You can now export XML comparison results to the MATLAB base workspace. You can use the results data for tasks such as further analysis or incorporating into different reports.

For details, see [Export Results to the Workspace](#) in the MATLAB Report Generator User's Guide.

R2010b

Version: 3.9

New Features

Bug Fixes

Complete Text Included in Reports

Any component that displays text in reports now displays the whole text, without any truncation.

Linking to MATLAB Commands

Using the Link component, in a report you can now include a link that executes a MATLAB command.

Insert Variable Component Enhancements

The Insert Variable component includes several new options for specifying the content that the component displays and the table layout that the component uses.

Nest Setup File Component Supports Relative Links

The Nest Setup File component includes a new **Link to external report is relative** option, which makes the link to the nested report a relative link. This feature facilitates including a report on a Web site.

Enhanced Error Handling Code for Evaluate MATLAB Expression Component

The Evaluate MATLAB Expression component includes enhanced error handling code that you can easily customize (for example, the error handling code can stop report generation, with or without displaying an exception). The default error handling code now supports MATLAB class exception handling, using the `evalException` variable instead of `lastError`.

Transposable Columns for Handle Graphics Summary Table Component

For the Handle Graphics Summary Table component, use the new **Transpose table** check box to change the summary table rows into columns in the generated report. Specifying this option puts the property names in the first column and the values in the other columns.

Additional Date Format for Title Page Component

The Title Page component includes an additional date format for the **Include report creation date** field: yyyy/mm/dd.

Improved XML Comparison Report

Reports for comparisons of XML files have a new faster user interface, with changed parameters displayed in a separate panel for easier review. The enhanced report now has color highlighting for new and changed items.

For details, see [Explore the XML Comparison Report](#) in the MATLAB Report Generator User's Guide.

R2010a

Version: 3.8

Bug Fixes

R2009b

Version: 3.7

New Features

Bug Fixes

Compatibility Considerations

Stylesheets and Stylesheet Data Items Now Alphabetized

When you create or modify a stylesheet, the Report Explorer **Options** pane now alphabetically sorts the stylesheets and the data items in each stylesheet category.

Compatibility Considerations

The order in which a stylesheet or data item appears in a list may have changed from the order used in previous releases.

Improved Images in Word and RTF Reports on Windows Platforms

To provide better graphics quality in reports using the Word document format or RTF (Rich Text format) on Windows platforms, the default format for Handle Graphics® images is now Windows metafile format. The default had been black and white TIFF.

You can control the image format using the MATLAB preferences or the MATLAB Report Generator preferences, or from snapshot components such as the Axes Snapshot component.

Compatibility Considerations

To change the image format back to the previous default of black and white TIFF, change the preferences.

Required Products Information for MATLAB/Toolbox Version Number Component

The MATLAB/Toolbox Version Number component now supports options to display information based on whether a Simulink model or Stateflow chart requires a MathWorks™ product. This feature does not apply to reports on MATLAB or toolbox code.

Adobe Illustrator Image File Format No Longer Supported

Compatibility Considerations

The **Image file format** options for the Axes Snapshot and the Figure Snapshot components no longer include Adobe® Illustrator. If you wish to integrate a MATLAB Report Generator image into Adobe Illustrator, specify an image file format supported by Adobe Illustrator, such as PDF, and then open the image file in Adobe Illustrator.

Navigation Controls for XML Comparison Report

The XML comparison report has new navigation controls to step through differences in the report. You can use the toolbar buttons or the **XML** menu to move to the next or previous group of changes.

For details, see *Explore the XML Comparison Report in the MATLAB Report Generator User's Guide*.

R2009a

Version: 3.6

No New Features or Changes

R2008b+

Version: 3.5

New Features

Bug Fixes

Comparison of XML Files

New comparison report for pairs of XML files.

For details, see [Comparing XML Files](#) in the MATLAB Report Generator documentation.

See also the following new example: `mlxml_testplan`.

R2008b

Version: 3.4

Bug Fixes

R2008a

Version: 3.3

Bug Fixes

R2007b

Version: 3.2.1

New Features

Bug Fixes

Text Formatting Options for Title Page, Text, and Paragraph Components

This release includes new text formatting options for the Title Page, Text, and Paragraph components.

For more information, see the MATLAB Report Generator documentation.

R2007a

Version: 3.2

Bug Fixes

R2006b

Version: 3.1

Bug Fixes

R2006a+

Version: 3.0.1

Bug Fixes

R2006a

Version: 3.0

New Features

Bug Fixes

Compatibility Considerations

User Interface and Performance Enhanced

The Report Explorer interface has a number of enhancements. The **View** menu has commands to increase and decrease font size and to show the message window if it is not displayed.

MATLAB Report Generator performance has improved. Reports are often generated more rapidly and with less chance of running out of memory.

XML File Format Changed

The format of XML files has changed in V3.0 (R2006a).

Compatibility Considerations

In V3.0 (R2006a), Report Explorer and the `rptconvert` command can convert XML files produced by the report generation process in V2.3.1 (R14SP3) and previous versions. However, in V2.3.1 (R14SP3) and previous versions, Report Explorer and the `rptconvert` command cannot convert XML files produced by the report generation process in V3.0 (R2006a).

R14SP3

Version: 2.3.1

New Features

Bug Fixes

Stylesheets Modify PDF Headers and Footers

This release adds support for modifying the content of headers and footers in PDF reports. This feature is implemented using stylesheet cells and cell groups. A *cell group* contains one or more stylesheet cells. A *stylesheet cell* is a set of values that determine the content of a particular portion of the header or footer for a page.

Two cell groups, **Header Content** and **Footer Content**, are available for PDF reports. You can use templates to specify XML code that defines the content for a header or footer.

R14SP2+

Version: 2.3

New Features

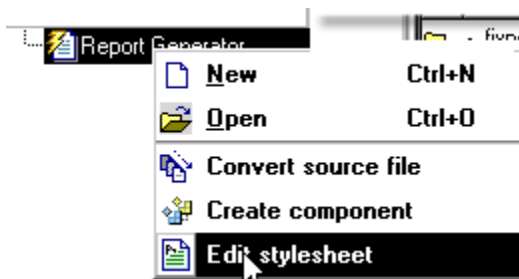
Bug Fixes

Stylesheet Editor

You can use the Stylesheet Editor to customize the formatting of your HTML, PDF, and Word documents. For example, you can specify fonts, paper layout, table presentation, as well as other characteristics of your final report.

Customizing reports by editing stylesheets gives you the flexibility to create reports that conform to corporate style guidelines and requirements.

To open the Stylesheet Editor, right-click **Report Generator** in the Outline pane of the Report Explorer and then click **Edit Stylesheet** on the shortcut menu, as shown:



For more information about using the Stylesheet Editor, see [Create Custom Stylesheets](#) in the MATLAB Report Generator documentation.

Table Cell Spanning

You can create advanced table layouts for property tables. The advanced layouts include cells that span multiple rows or columns.

Generating Microsoft Word Documents as .doc Files

You can generate reports that are saved as Microsoft Word documents with the `.doc` extension. You can also convert XML source files that are generated by the report generation process to `.doc` files.

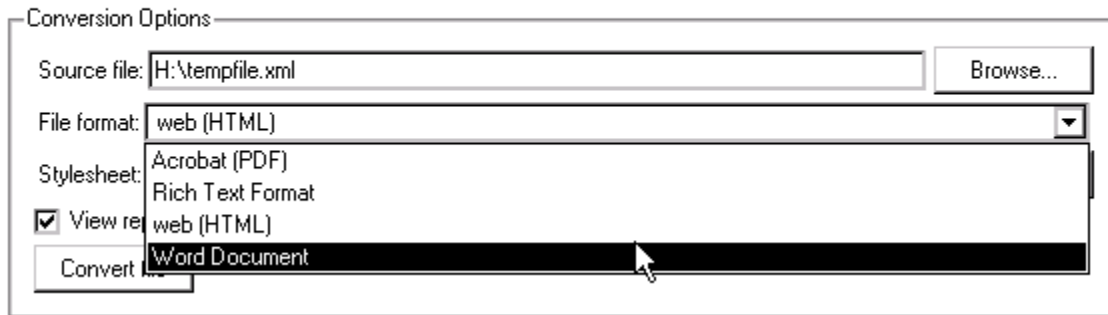
The reports you create are easier to distribute via e-mail, to share with others, and to manage.

You must have Microsoft Word software installed to use this feature, and you must be running the MATLAB Report Generator software on a Microsoft Windows system.

To use this feature select **Word Document** from the **Stylesheet** drop-down list in the Convert Source File dialog box, as shown:

Convert Source File

The Source File Converter transforms DocBook XML source files created by the Report Generator into a formatted document, such as HTML, RTF, or PDF.



Improved Graphical User Interface

This version of the MATLAB Report Generator software has the following changes and improvements to the graphical user interface:

- The File Converter has a **Source File** drop-down list. Click **Browse** to navigate to a folder to select a source file. The default folder is the current folder.
- In the File Converter, you can select a stylesheet from the drop-down list and click **Edit** to open the Stylesheet Editor.
- An improved mechanism detects and displays errors that occur when you attempt to add a component that makes the style hierarchy invalid. Users of earlier versions may notice that warnings are now issued for components that had no problems in earlier versions. In this release, warning messages contain instructions about how to fix the problem.
- The **Figure Screen Capture** component has been improved to capture window decorations such as menus, title bars, and toolbars.

