

Automated Function Documentation

What's new in Version 13.3.R0?

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1 Purpose and scope

This document describes the improvements and changes of FunDoc V13.3 compared to V11.3

2 What's new in Version V13.3.R0?

2.1 Highlights

2.1.1 FunDoc Java API [[FUNDOC-4983](#)]

Implemented a first version of a Java api for a specific usecase.

2.2 New Features, Major Improvements

2.2.1 Temporary TeX Files [[FUNDOC-5039](#)]

The temporary LaTeX files will not be deleted any more in case of an error.

2.2.2 TeXFormatter [[FUNDOC-5023](#)]

It is now possible to add arguments for the LaTeX compiler.

2.2.3 Data Object Tables [[FUNDOC-4967](#)]

It is possible to modify the Data Object Table caption with the FunDocTeXClass.cls

2.3 Minor Improvements / Correction of Bugs

2.3.1 Custom Formatter [[FUNDOC-5113](#)]

Fixed an issue regarding the temporary fux file path.

2.3.2 Hierarchy Overlay ToolTip [[FUNDOC-5069](#)]

Fixed an issue causing problems to generate PDF in case of missing data dictionary.

2.3.3 PDF Links [[FUNDOC-4951](#)]

Fixed an issue regarding external file links in PDFs

2.3.4 Text in lists [[FUNDOC-4828](#)]

Fixed an issue that caused text to be not correctly indented in lists.

2.3.5 TeX Verbatim and Verbatim [[FUNDOC-4824](#)]

Added the possibility to convert verbatim blocks back to regular text blocks

2.3.6 Documentation Data Link [[FUNDOC-5116](#)]

Fixed an issue that FunDoc crashed using a DDX file under certain circumstances.

2.3.7 PACES MDX-PACES [[FUNDOC-4961](#)]

Casual problems regarding PACES export fixed.

3 What's new in Version V13.2.R0?

3.1 Highlights

3.1.1 Ascet 6.4.3 support [\[FUNDOC-4862\]](#)

FunDoc supports now Ascet version 6.4.3.

3.1.2 History Chapter [\[FUNDOC-4780\]](#)

A history chapter can be generated by FunDoc where the changes to the documentation can be stored.

3.2 New Features, Major Improvements

3.2.1 GUI Icons [\[FUNDOC-3808\]](#)

New Icons were created and integrated in the user interface of the global and context-local search mechanism.

3.2.2 Formula editor [\[FUNDOC-4820\]](#)

Usability improvements for the formula editor.

3.2.3 Fonts for FunDoc [\[FUNDOC-4791\]](#)

The font used in the FunDocEditor can now be changed.

3.2.4 FunDoc Editor [\[FUNDOC-4788\]](#)

Improved the GUI by removing the inner scrollbar

3.2.5 Transform processor [\[FUNDOC-4733\]](#)

Modified FunDoc to prevent file conflicts while using multiple instances of the FunDoc transform processor

3.2.6 Zoom in FunDoc [\[FUNDOC-2346\]](#)

Improved the UI to enable zoom in FunDoc by using the common short cut control and mouse wheel.

3.2.7 CV PACES MDX [\[FUNDOC-4412\]](#)

Consider CodeVariant Settings for DataObjects via PACES MDX export process.

3.3 Minor Improvements / Correction of Bugs

3.3.1 Create by Config [\[FUNDOC-4914\]](#)

Fixed an issue that regarding the aggregation with create by config that caused the settings to be ignored.

3.3.2 Line breaks in tables [\[FUNDOC-4884\]](#)

Added possible line breaks for text in tables to enable line breaks for long words in tables and lists.

3.3.3 LaTeX output for Tables [\[FUNDOC-4868\]](#)

Fixed an issue that caused in tables with centered or right alignment to be not adjusted by page width.

3.3.4 PDF Formatter [\[FUNDOC-5005\]](#)

Fixed an issue that prevented one config setting to be ignored.

3.3.5 Hierarchy Mapping [[FUNDOC-4958](#)]

Fixed an issue that caused the order of subsystems to be changed within the hierarchy mapping dialog.

3.3.6 TeX and Pdf Formatter [[FUNDOC-4923](#)]

Fixed an issue with figure area maps that created invalid TeX code.

3.3.7 FunDoc Dictionary [[FUNDOC-4312](#)]

Fixed an issue that prevented new entries into the dictionary for words with ä, ü, ö and ß

3.3.8 Functionpackages [[FUNDOC-4122](#)]

Fixed an issue that caused the functions to be sorted incorrectly

4 What's new in Version V13.1.R0?

4.1 Highlights

4.1.1 FunDoc TeXFormatter [[FUNDOC-4521](#)]

FunDoc can now display tooltips within the hierarchy images.

4.1.2 FunDoc Documentation [[FUNDOC-4413](#)]

Added the option to trigger the MDX Export via PACES.

4.2 New Features, Major Improvements

4.2.1 FunDoc Documentation [[FUNDOC-4115](#)]

FunDoc now generates during the documentation process an overview for used processes similar to the overview for used parameter and variables

4.2.2 FunDoc Editor [[FUNDOC-3809](#)]

The editor now has an undo function.

4.2.3 FunDocUserSettings [[FUNDOC-1888](#)]

Improved the handling for the FunDocUserSettings.xml to enable a path selection for the setting file.

4.2.4 Manual Mapping [[FUNDOC-4686](#)]

Improved the handling for the manual mapping feature.

4.3 Minor Improvements / Correction of Bugs

4.3.1 Save Document Structure [[FUNDOC-4905](#)]

The 'Save Document Structure' button is now only visible for library documentation.

4.3.2 Mapping Dialog Split-Behavior [[FUNDOC-4875](#)]

The mapping dialog was extended by a description of the split behavior.

4.3.3 Mapping dialog handling [[FUNDOC-4888](#)]

Fixed an issue that caused the undo shortcut to be only used once.

4.3.4 Mapping dialog Abort button [\[FUNDOC-4876\]](#)

The 'Abort' button can now be hidden via the FunDocConfig.xml.

4.3.5 RomanNumeral struct limits [\[FUNDOC-4832\]](#)

RomanNumeral limits extended for cross references to support up to 32767 cross references

4.3.6 FunDoc TeXFormatter [\[FUNDOC-4789\]](#)

Fixed an issue that prevented a line break within table cells.

4.3.7 Automatic Guideline fix [\[FUNDOC-4775\]](#)

fixed an issue regarding not copied chapters and topics

5 What's new in Version V12.3.R0?

5.1 Highlights

5.1.1 FunDoc Documentation DataLink selection [\[FUNDOC-4605\]](#)

Mdx files can be used to select the DataLink

5.2 New Features, Major Improvements

5.2.1 FunDoc Formatter Cross Reference Tables [\[FUNDOC-4606\]](#)

Added a hyperlink for the column Defined In of the cross reference table.

5.2.2 FunDoc Formatter [\[FUNDOC-4719\]](#)

Added a FunDocConfig setting to select a specific TeX formatter for the pdf creation

5.2.3 FunDocEditor GUI [\[FUNDOC-4657\]](#)

Improved context menu for Windows classic theme

5.2.4 .Net Framework [\[FUNDOC-4677\]](#)

FunDoc uses now .Net Framework 4.6

5.3 Minor Improvements / Correction of Bugs

5.3.1 StatemachineHandler [\[FUNDOC-4696\]](#)

Fixed an issue preventing the config FunDocConfig.xml setting for the StatemachineHandler to be read correctly

5.3.2 FunDocEditor Tree View [\[FUNDOC-4292\]](#)

Fixed an issue that caused newly created chapters to be marked as 'changed' instead of 'new'.

5.3.3 Matlab Select from Hierarchy [\[FUNDOC-4737\]](#)

Fixed an issue that caused to throw an exception when selecting a Matlab model from hierarchy

5.3.4 Tables with lists in LaTeX [\[FUNDOC-4718\]](#)

Fixed an issue with lists in tables which caused an error during PDF creation.

5.3.5 Log Messages [[FUNDOC-4673](#)]

Improved the Logger to write log messages even when FunDoc could not be started due to e.g. corrupt FunDocConfig file.

5.3.6 CustomFormatter [[FUNDOC-4634](#)]

Fixed an issue that caused the original fux file to be replaced by a reduced one while using the CustomFormatter

5.3.7 TeX Formatter [[FUNDOC-4628](#)]

Fixed an issue causing overlapping hyperlinks for subsystem hierarchy links

5.3.8 ML Docu-Creation [[FUNDOC-4619](#)]

Randomly occurring MATLAB exceptions during the FunDoc ML-Docu-Update/Creation fixed.

5.3.9 Convert Function into Chapter Mode [[FUNDOC-4584](#)]

Solved an issue that caused a crash while converting all functions into chapter mode.

5.3.10 FunDoc Error-Messages [[FUNDOC-4579](#)]

Improved the error messages in case of failed license check or problems to connect to the ADD db

5.3.11 Matlab Evaluation [[FUNDOC-4560](#)]

Model references which can not be loaded will now be skipped to prevent exceptions.

5.3.12 Library aggregation [[FUNDOC-4121](#)]

Fixed an issue that caused functions to be documented at the wrong position. Additional config setting implemented

5.3.13 Library aggregation [[FUNDOC-4120](#)]

Fixed an issue that caused global classes to be documented in the wrong position.

5.3.14 Library aggregation [[FUNDOC-4119](#)]

Single functions are now grouped within the folder Functions which is located behind the function packages.

5.3.15 Library aggregation [[FUNDOC-4042](#)]

Fixed an issue that sorted classes located in container into the global class section.

5.3.16 Tree View Items [[FUNDOC-3803](#)]

Fixed an issue that caused items in the tree view to overlap

6 What's new in Version V12.2.R0?

6.1 Highlights

6.1.1 Automatic Document Guideline fix [[FUNDOC-3745](#)]

The user has the choice to automatically fix function documentations according to the configured guidelines.

6.1.2 Matlab 2015b support [[FUNDOC-4293](#)]

FunDoc supports now Matlab 2015b.

6.2 New Features, Major Improvements

6.2.1 FunDocConfig Behavior [\[FUNDOC-3869\]](#)

Added the opportunity to use relative paths and environment variables for the FunDocConfig.

6.2.2 Options in GUI [\[FUNDOC-4321\]](#)

Added option Include Related Models to the options in the GUI.

6.2.3 Formula editor [\[FUNDOC-4289\]](#)

Improved the formula editor to insert new items within the formula and UI improvements.

6.3 Minor Improvements / Correction of Bugs

6.3.1 Batch Processor transform operation [\[FUNDOC-4559\]](#)

Added and modified parameter to align output with format process.

6.3.2 Automatic Feature/DataObject linking [\[FUNDOC-4558\]](#)

fixed an issue to improve the OutOfMemoryException problem.

6.3.3 Automatic linking [\[FUNDOC-4586\]](#)

Fixed an issue causing a crash if an automatic link was created for formatted text.

6.3.4 FunDoc Editor [\[FUNDOC-4557\]](#)

fixed an issue regarding Technical Terms and Inline Formulas which were directly adjacent.

6.3.5 FunDoc Editor Table behavior [\[FUNDOC-4546\]](#)

Improved the behavior of the editor regarding tabs in tables.

6.3.6 Copy and paste from Eclipse [\[FUNDOC-4536\]](#)

Fixed an issue that caused a crash while copying and pasting from Eclipse.

6.3.7 Pdf and LaTeX Hierarchy Path [\[FUNDOC-4459\]](#)

Fixed an issue causing long hierarchy paths to exceed the page side.

6.3.8 StateFlow progress bar [\[FUNDOC-4453\]](#)

Improved the progress bar handling for state flows and sub systems showing a continuous progress.

6.3.9 Bullet points in FunDoc [\[FUNDOC-4294\]](#)

Fixed an issue displaying the tabs for bullet points incorrectly.

6.3.10 FunDoc Editor [\[FUNDOC-4214\]](#)

Improved the handling for the FunDoc editor regarding text modifications adjacent to TechnicalTerms.

7 What's new in Version V12.1.R0?

7.1 Highlights

7.1.1 Ascet Project documentation [[FUNDOC-4125](#)]

Implemented within the Framework Aggregation the option to directly document a Ascet project without previously creating module documentations.

7.1.2 Class Documentation [[FUNDOC-4109](#)]

Data link for ADD Classes implemented. This gives FunDoc the opportunity to directly generate ADD Class documentations.

7.1.3 GUI - Documentation - Model Items Mapping [[FUNDOC-3972](#)]

During the documentation with model items the user has the chance to manually map the relation between document and model items.

7.2 New Features, Major Improvements

7.2.1 Modify Technical Terms via Keyboard [[FUNDOC-4127](#)]

Added the possibility to modify technical terms completely by keyboard.

7.2.2 Batch Processor transform operation [[FUNDOC-4118](#)]

Implemented a new parameter for the batch processor to modify existing fux files via the API.

7.2.3 Tool tip for hour glass [[FUNDOC-4116](#)]

Added a tool tip for the progress hour glass to indicate what process is currently running.

7.2.4 Background Matlab Documentation [[FUNDOC-3627](#)]

It is now possible to start a Matlab documentation in the background without Matlab opening several windows.

7.2.5 Model Mapping [[FUNDOC-4495](#)]

Added a config for the FunDocConfig to prevent alignments from the model side.

7.3 Minor Improvements / Correction of Bugs

7.3.1 Improved handling for encapsulated classes [[FUNDOC-4203](#)]

FunDoc now imports encapsulated classes correctly if the option "Include related models" is selected

7.3.2 State machines documentation [[FUNDOC-4044](#)]

It is possible to document state machines similar to classes.

7.3.3 Additional Options in GUI [[FUNDOC-4040](#)]

Several new configuration options were added to the GUI.

7.3.4 Shared file fragments [[FUNDOC-4282](#)]

Fixed an issue with shared file fragments (e.g. classes) within the same library.

7.3.5 Convert to Chapter Mode [[FUNDOC-4124](#)]

Fixed an issue which caused FunDoc to crash while converting all functions to chapter mode.

7.3.6 Reading MKS Info from Matlab [[FUNDOC-4393](#)]

Fixed an issue that caused a problem reading the MKS information via Matlab.

7.3.7 LaTeX linebreaks in tables [[FUNDOC-4369](#)]

Fixed an issue with line breaks within tables.

7.3.8 Model notes in PDF [[FUNDOC-4363](#)]

Fixed an issue that caused full justification in model notes.

7.3.9 Display Formula in PDF [[FUNDOC-4326](#)]

Fixed an issue regarding formulas. Caption for the formulas will be placed under the formula.

7.3.10 Formula editor [[FUNDOC-4319](#)]

Fixed an issue regarding an error message in the formula editor.

7.3.11 Log File Improvement [[FUNDOC-4313](#)]

Fixed an issue that caused FunDoc to be locked during the time the log file is opened in an external editor.

7.3.12 User customized colors [[FUNDOC-4311](#)]

Fixed an issue that user customized colors were not saved.

7.3.13 Find and Replace all [[FUNDOC-4310](#)]

Fixed an issue that caused a crash after using find and replace all functionality.

7.3.14 MKS Project Information [[FUNDOC-4301](#)]

Fixed an issue that caused FunDoc to display the wrong MKS information within projects.

7.3.15 Editing Inline-Formula [[FUNDOC-4288](#)]

Fixed an issue that caused a crash while editing inline formulas.

7.3.16 Matlab COM-Exceptions [[FUNDOC-4274](#)]

fixed an issue that caused 2 exceptions during documentation process.

7.3.17 Format string conversion in DataObject tables [[FUNDOC-4273](#)]

Fixed an issue regarding the format string conversion in DataObject tables.

7.3.18 SortByName for Hierarchies [[FUNDOC-4253](#)]

Fixed an issue that caused the hierarchies which begin with a number to be sorted in the wrong order.

7.3.19 FunDoc Process Feedback [[FUNDOC-4240](#)]

Fixed an issue regarding wrong process feedback from FunDoc.

7.3.20 Model update [[FUNDOC-4239](#)]

Fixed an issue regarding the update function and models within the Fux file.

7.3.21 LaTeX DataObject Tables [\[FUNDOC-4216\]](#)

Fixed an issue regarding the DataObject names in the DataObject Tables.

7.3.22 Hierarchy Area Mapping [\[FUNDOC-4198\]](#)

Fixed an issue regarding misplaced area links in the Hierarchy Area Mapping

7.3.23 SaveAs function [\[FUNDOC-4114\]](#)

Fixed an issue regarding the SaveAs function.

7.3.24 Documentation with Ascet Model [\[FUNDOC-3824\]](#)

Fixed an issue with a documentation with diagrams of type esdl or c-code

7.3.25 Skipping of local classes [\[FUNDOC-4423\]](#)

Fixed an issue that skipped local classes due to the visibility of the class if it was included multiple times.

7.3.26 Batch Processor transform operation [\[FUNDOC-4559\]](#)

Added and modified parameter to align output with format process.

7.3.27 Automatic Feature/DataObject linking [\[FUNDOC-4558\]](#)

fixed an issue to improve the OutOfMemoryException problem.

7.3.28 TeX-PDF Text Align [\[FUNDOC-4538\]](#)

Issues related to changing text alignments within the PDF (TeX) - Output fixed.

7.3.29 Aling with for Mapping feature [\[FUNDOC-4482\]](#)

Fixed an issue regarding Align with to improve usability.

7.3.30 Mapping Feature Align with [\[FUNDOC-4481\]](#)

Fixed an issue regarding a crash under certain circumstances with 'Align with selection'.

7.3.31 Pdf overlay for hierarchies [\[FUNDOC-3872\]](#)

Improved the algorithm to identify the hierarchies in imported models.

7.3.32 Matlab handling [\[FUNDOC-4452\]](#)

Improved log messages in case Matlab causing problems to clarify the source of the problems.

7.3.33 Model Mapping Dialog [\[FUNDOC-4476\]](#)

Fixed an issue that prevented the dialog to pop up.

7.3.34 Search and Replace [\[FUNDOC-4441\]](#)

Fixed an issue that caused the search and replace feature to crash.

7.3.35 Document date update [\[FUNDOC-4451\]](#)

The date in the document will now be updated.

7.3.36 Manual Mapping Dialog [\[FUNDOC-4477\]](#)

The dialog will not appear if only some additional models were added.

7.3.37 Automatic linking [[FUNDOC-4586](#)]

Fixed an issue causing a crash if an automatic link was created for formatted text.

8 What's new in Version V11.3.R2?

8.1 Highlights

8.2 New Features, Major Improvements

8.3 Minor Improvements / Correction of Bugs

8.3.1 Shared file fragments [[FUNDOC-4282](#)]

Fixed an issue with shared file fragments (e.g. classes) within the same library.

9 What's new in Version V11.3.R1?

9.1 Highlights

9.2 New Features, Major Improvements

9.2.1 FunDoc Editor [[FUNDOC-4233](#)]

A new auto-complete feature is implemented for the FunDoc Editor.

9.3 Minor Improvements / Correction of Bugs

9.3.1 Model path in cms function [[FUNDOC-4257](#)]

The absolute model path is now available in the cms function for Matlab.

10 What's new in Version V11.3.R0?

10.1 Highlights

10.1.1 Automatic Feature/DataObject linking [[FUNDOC-4036](#)]

It is possible to automatically replace mentioned features and data object by a link to this feature/data object. This is possible during the saving process/custom formatter process.

10.1.2 MKS Information in Documentation [[FUNDOC-3879](#)]

MKS information are now included in the documentation. This information is included in the fux file as well as the created pdf.

10.1.3 Formula Editor - TeXLive [[FUNDOC-3790](#)]

The formula editor in FunDoc now also works with TeXLive.

10.1.4 ASCET [[FUNDOC-4009](#)]

FunDoc supports now Ascet 6.3

10.2 New Features, Major Improvements

10.2.1 FunDoc Image Format Support [[FUNDOC-3782](#)]

FunDoc now supports more image formats. This is completely controlled by the FunDocConfig.xml where image converter can be defined for specific image formats.

10.2.2 Improved handling for encapsulated classes [[FUNDOC-4203](#)]

FunDoc now imports encapsulated classes correctly if the option "Include related models" is selected

10.2.3 Automatic Data Source recognition [[FUNDOC-4039](#)]

FunDoc can now switch automatically to the setting UseDDSMdx if a ddx file is used as a data source. This behavior is activated by a FunDocConfig.xml setting.

10.2.4 Batch Mode Automatic Conversion [[FUNDOC-3795](#)]

It is now possible to automatically convert a document into a different hierarchy format in case of a document update. This behavior is activated by an additional parameter

10.3 Minor Improvements / Correction of Bugs

10.3.1 Toolbar Icons [[FUNDOC-1157](#)]

Implemented bigger icons for the FunDoc toolbar.

10.3.2 Aggregation with .ddx file [[FUNDOC-4143](#)]

Fixed an issue that occurred while aggregation with a ddx file regarding the import of VarCodes.

10.3.3 LibraryAggregation [[FUNDOC-4041](#)]

Fixed an issues regarding the introduction chapter generation for the library aggregation.

10.3.4 TeX Formatter [[FUNDOC-4038](#)]

Fixed an issue regarding an error during Pdf/TeX creation with figure area maps

10.3.5 MatLab Model Print [\[FUNDOC-3865\]](#)

Fixed an issue that prevented the correct LogMessage was printed when an error occurred.

10.3.6 Matlab model parsing [\[FUNDOC-4066\]](#)

Fixed an issue regarding the model parsing process which caused the parsing to stop.

10.3.7 SC Condition Import [\[FUNDOC-4046\]](#)

Fixed an issue regarding the SC condition import with activated replication.

10.3.8 GUI - Documentation - Model Items [\[FUNDOC-3985\]](#)

Fixed an issue that the open dialog for the model item selection disappeared when clicking somewhere within the FunDoc editor.

10.3.9 FSX File - Calibration Notes [\[FUNDOC-3965\]](#)

Fixed an issue regarding the calibration note long name, which are now written correctly in the fsx files.

10.3.10 Indent for Bulletpoints [\[FUNDOC-3860\]](#)

Fixed an issue regarding the indent for bullet points or numbered lists. The bullet point/number is now indented too.

10.3.11 TeX Data Object Table output [\[FUNDOC-3752\]](#)

Fixed an issue that resulted in different output due to culture settings. Values are now written culture invariant.

10.3.12 Library Aggregation Status Window [\[FUNDOC-3436\]](#)

Opening and filling the aggregation status window is improved to prevent the impression that the GUI is crashed.

10.3.13 Progress Bar [\[FUNDOC-2350\]](#)

Fixed an issue that prevented the progress bar to close after loading a document.

11 No longer supported features

12 Questions?

If you have any questions about this release, please contact the Visu-IT! FunDoc Hotline:

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FunDoc Product page

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