

## Automated Function Documentation

What's new in Version 12.3.R0?

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### FunDoc Contact

E-Mail: [hotline@visu-it.com](mailto:hotline@visu-it.com)

Internet: <https://www.visu-it.de/fundoc>



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Visual Information Technologies GmbH

An der Schergenbreite 1

93059 Regensburg

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## 1 Purpose and scope

This document describes the improvements and changes of FunDoc V12.3 compared to V11.3

## 2 What's new in Version V12.3.R0?

### 2.1 Highlights

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

Mdx files can be used to select the DataLink

### 2.2 New Features, Major Improvements

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

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

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

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

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

Improved context menu for Windows classic theme

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

FunDoc uses now .Net Framework 4.6

### 2.3 Minor Improvements / Correction of Bugs

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

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

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

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

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

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

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

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

#### 2.3.5 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.

#### 2.3.6 CustomFormatter [\[FUNDOC-4634\]](#)

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

### **2.3.7 TeX Formatter [\[FUNDOC-4628\]](#)**

Fixed an issue causing overlapping hyperlinks for subsystem hierarchy links

### **2.3.8 ML Docu-Creation [\[FUNDOC-4619\]](#)**

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

### **2.3.9 Convert Function into Chapter Mode [\[FUNDOC-4584\]](#)**

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

### **2.3.10 FunDoc Error-Messages [\[FUNDOC-4579\]](#)**

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

### **2.3.11 Matlab Evaluation [\[FUNDOC-4560\]](#)**

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

### **2.3.12 Library aggregation [\[FUNDOC-4121\]](#)**

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

### **2.3.13 Library aggregation [\[FUNDOC-4120\]](#)**

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

### **2.3.14 Library aggregation [\[FUNDOC-4119\]](#)**

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

### **2.3.15 Library aggregation [\[FUNDOC-4042\]](#)**

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

### **2.3.16 Tree View Items [\[FUNDOC-3803\]](#)**

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

## **3 What's new in Version V12.2.R0?**

### **3.1 Highlights**

#### **3.1.1 Automatic Document Guideline fix [\[FUNDOC-3745\]](#)**

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

#### **3.1.2 Matlab 2015b support [\[FUNDOC-4293\]](#)**

FunDoc supports now Matlab 2015b.

### **3.2 New Features, Major Improvements**

#### **3.2.1 FunDocConfig Behavior [\[FUNDOC-3869\]](#)**

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

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

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

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

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

## 3.3 Minor Improvements / Correction of Bugs

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

Added and modified parameter to align output with format process.

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

fixed an issue to improve the OutOfMemoryException problem.

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

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

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

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

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

Improved the behavior of the editor regarding tabs in tables.

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

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

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

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

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

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

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

Fixed an issue displaying the tabs for bullet points incorrectly.

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

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

## 4 What's new in Version V12.1.R0?

### 4.1 Highlights

#### 4.1.1 Ascet Project documentation [\[FUNDOC-4125\]](#)

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

#### 4.1.2 Class Documentation [\[FUNDOC-4109\]](#)

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

### 4.1.3 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.

## 4.2 New Features, Major Improvements

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

Added the possibility to modify technical terms completely by keyboard.

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

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

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

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

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

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

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

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

## 4.3 Minor Improvements / Correction of Bugs

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

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

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

It is possible to document state machines similar to classes.

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

Several new configuration options were added to the GUI.

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

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

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

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

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

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

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

Fixed an issue with line breaks within tables.

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

Fixed an issue that caused full justification in model notes.



#### **4.3.9 Display Formula in PDF [\[FUNDOC-4326\]](#)**

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

#### **4.3.10 Formula editor [\[FUNDOC-4319\]](#)**

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

#### **4.3.11 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.

#### **4.3.12 User customized colors [\[FUNDOC-4311\]](#)**

Fixed an issue that user customized colors were not saved.

#### **4.3.13 Find and Replace all [\[FUNDOC-4310\]](#)**

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

#### **4.3.14 MKS Project Information [\[FUNDOC-4301\]](#)**

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

#### **4.3.15 Editing Inline-Formula [\[FUNDOC-4288\]](#)**

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

#### **4.3.16 Matlab COM-Exceptions [\[FUNDOC-4274\]](#)**

fixed an issue that caused 2 exceptions during documentation process.

#### **4.3.17 Format string conversion in DataObject tables [\[FUNDOC-4273\]](#)**

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

#### **4.3.18 SortByName for Hierarchies [\[FUNDOC-4253\]](#)**

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

#### **4.3.19 FunDoc Process Feedback [\[FUNDOC-4240\]](#)**

Fixed an issue regarding wrong process feedback from FunDoc.

#### **4.3.20 Model update [\[FUNDOC-4239\]](#)**

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

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

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

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

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

#### **4.3.23 SaveAs function [\[FUNDOC-4114\]](#)**

Fixed an issue regarding the SaveAs function.

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

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

#### **4.3.25 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.

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

Added and modified parameter to align output with format process.

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

fixed an issue to improve the OutOfMemoryException problem.

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

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

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

Fixed an issue regarding Align with to improve usability.

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

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

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

Improved the algorithm to identify the hierarchies in imported models.

#### **4.3.32 Matlab handling [\[FUNDOC-4452\]](#)**

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

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

Fixed an issue that prevented the dialog to pop up.

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

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

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

The date in the document will now be updated.

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

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

#### **4.3.37 Automatic linking [\[FUNDOC-4586\]](#)**

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

## 5 What's new in Version V11.3.R2?

### 5.1 Highlights

### 5.2 New Features, Major Improvements

### 5.3 Minor Improvements / Correction of Bugs

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

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

## 6 What's new in Version V11.3.R1?

### 6.1 Highlights

### 6.2 New Features, Major Improvements

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

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

### 6.3 Minor Improvements / Correction of Bugs

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

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

## 7 What's new in Version V11.3.R0?

### 7.1 Highlights

#### 7.1.1 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.

#### 7.1.2 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.

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

The formula editor in FunDoc now also works with TeXLive.

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

FunDoc supports now Ascet 6.3

### 7.2 New Features, Major Improvements

#### 7.2.1 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.

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

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

#### 7.2.3 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.

#### 7.2.4 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

### 7.3 Minor Improvements / Correction of Bugs

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

Implemented bigger icons for the FunDoc toolbar.

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

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

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

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

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

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

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

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

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

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

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

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

### **7.3.8 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.

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

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

### **7.3.10 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.

### **7.3.11 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.

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

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

### **7.3.13 Progress Bar [\[FUNDOC-2350\]](#)**

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

## 8 No longer supported features

## 9 Questions?

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

### FunDoc Hotline

Tel.: +49 (0)941 – 49082-16  
email: [hotline@visu-it.com](mailto:hotline@visu-it.com)



### FunDoc Product page

Internet: <https://www.visu-it.de/fundoc>