

## Automated Function Documentation

What's new in Version 13.2.R0?

June 30<sup>th</sup> 2017

### FunDoc Contact

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

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



© Copyright 2017

Visual Information Technologies GmbH

An der Schergenbreite 1

93059 Regensburg

## Contents

<b>1</b>	<b><i>Purpose and scope</i></b>	<b>6</b>
<b>2</b>	<b><i>What's new in Version V13.2.R0?</i></b>	<b>6</b>
2.1	<b>Highlights</b>	<b>6</b>
2.1.1	Ascet 6.4.3 support [ <a href="#">FUNDOC-4862</a> ]	6
2.1.2	History Chapter [ <a href="#">FUNDOC-4780</a> ]	6
2.2	<b>New Features, Major Improvements</b>	<b>6</b>
2.2.1	GUI Icons [ <a href="#">FUNDOC-3808</a> ]	6
2.2.2	Formula editor [ <a href="#">FUNDOC-4820</a> ]	6
2.2.3	Fonts for FunDoc [ <a href="#">FUNDOC-4791</a> ]	6
2.2.4	FunDoc Editor [ <a href="#">FUNDOC-4788</a> ]	6
2.2.5	Transform processor [ <a href="#">FUNDOC-4733</a> ]	6
2.2.6	Zoom in FunDoc [ <a href="#">FUNDOC-2346</a> ]	6
2.3	<b>Minor Improvements / Correction of Bugs</b>	<b>6</b>
2.3.1	Create by Config [ <a href="#">FUNDOC-4914</a> ]	6
2.3.2	Line breaks in tables [ <a href="#">FUNDOC-4884</a> ]	6
2.3.3	LaTeX output for Tables [ <a href="#">FUNDOC-4868</a> ]	6
2.3.4	PDF Formatter [ <a href="#">FUNDOC-5005</a> ]	6
2.3.5	Hierarchy Mapping [ <a href="#">FUNDOC-4958</a> ]	7
2.3.6	TeX and Pdf Formatter [ <a href="#">FUNDOC-4923</a> ]	7
2.3.7	FunDoc Dictionary [ <a href="#">FUNDOC-4312</a> ]	7
2.3.8	Functionpackages [ <a href="#">FUNDOC-4122</a> ]	7
<b>3</b>	<b><i>What's new in Version V13.1.R0?</i></b>	<b>7</b>
3.1	<b>Highlights</b>	<b>7</b>
3.1.1	FunDoc TeXFormatter [ <a href="#">FUNDOC-4521</a> ]	7
3.1.2	FunDoc Documentation [ <a href="#">FUNDOC-4413</a> ]	7
3.2	<b>New Features, Major Improvements</b>	<b>7</b>
3.2.1	FunDoc Documentation [ <a href="#">FUNDOC-4115</a> ]	7
3.2.2	FunDoc Editor [ <a href="#">FUNDOC-3809</a> ]	7
3.2.3	FunDocUserSettings [ <a href="#">FUNDOC-1888</a> ]	7
3.2.4	Manual Mapping [ <a href="#">FUNDOC-4686</a> ]	7
3.3	<b>Minor Improvements / Correction of Bugs</b>	<b>7</b>
3.3.1	Save Document Structure [ <a href="#">FUNDOC-4905</a> ]	7
3.3.2	Mapping Dialog Split-Behavior [ <a href="#">FUNDOC-4875</a> ]	7
3.3.3	Mapping dialog handling [ <a href="#">FUNDOC-4888</a> ]	7
3.3.4	Mapping dialog Abort button [ <a href="#">FUNDOC-4876</a> ]	8
3.3.5	RomanNumeral struct limits [ <a href="#">FUNDOC-4832</a> ]	8
3.3.6	FunDoc TeXFormatter [ <a href="#">FUNDOC-4789</a> ]	8
3.3.7	Automatic Guideline fix [ <a href="#">FUNDOC-4775</a> ]	8
<b>4</b>	<b><i>What's new in Version V12.3.R0?</i></b>	<b>8</b>
4.1	<b>Highlights</b>	<b>8</b>
4.1.1	FunDoc Documentation DataLink selection [ <a href="#">FUNDOC-4605</a> ]	8
4.2	<b>New Features, Major Improvements</b>	<b>8</b>
4.2.1	FunDoc Formatter Cross Reference Tables [ <a href="#">FUNDOC-4606</a> ]	8
4.2.2	FunDoc Formatter [ <a href="#">FUNDOC-4719</a> ]	8
4.2.3	FunDocEditor GUI [ <a href="#">FUNDOC-4657</a> ]	8
4.2.4	.Net Framework [ <a href="#">FUNDOC-4677</a> ]	8
4.3	<b>Minor Improvements / Correction of Bugs</b>	<b>8</b>

4.3.1	StatemachineHandler <a href="#">[FUNDOC-4696]</a>	8
4.3.2	FunDocEditor Tree View <a href="#">[FUNDOC-4292]</a>	8
4.3.3	Matlab Select from Hierarchy <a href="#">[FUNDOC-4737]</a>	8
4.3.4	Tables with lists in LaTeX <a href="#">[FUNDOC-4718]</a>	8
4.3.5	Log Messages <a href="#">[FUNDOC-4673]</a>	9
4.3.6	CustomFormatter <a href="#">[FUNDOC-4634]</a>	9
4.3.7	TeX Formatter <a href="#">[FUNDOC-4628]</a>	9
4.3.8	ML Docu-Creation <a href="#">[FUNDOC-4619]</a>	9
4.3.9	Convert Function into Chapter Mode <a href="#">[FUNDOC-4584]</a>	9
4.3.10	FunDoc Error-Messages <a href="#">[FUNDOC-4579]</a>	9
4.3.11	Matlab Evaluation <a href="#">[FUNDOC-4560]</a>	9
4.3.12	Library aggregation <a href="#">[FUNDOC-4121]</a>	9
4.3.13	Library aggregation <a href="#">[FUNDOC-4120]</a>	9
4.3.14	Library aggregation <a href="#">[FUNDOC-4119]</a>	9
4.3.15	Library aggregation <a href="#">[FUNDOC-4042]</a>	9
4.3.16	Tree View Items <a href="#">[FUNDOC-3803]</a>	9
<b>5</b>	<b>What's new in Version V12.2.R0?</b>	<b>9</b>
<b>5.1</b>	<b>Highlights</b>	<b>9</b>
5.1.1	Automatic Document Guideline fix <a href="#">[FUNDOC-3745]</a>	9
5.1.2	Matlab 2015b support <a href="#">[FUNDOC-4293]</a>	9
<b>5.2</b>	<b>New Features, Major Improvements</b>	<b>10</b>
5.2.1	FunDocConfig Behavior <a href="#">[FUNDOC-3869]</a>	10
5.2.2	Options in GUI <a href="#">[FUNDOC-4321]</a>	10
5.2.3	Formula editor <a href="#">[FUNDOC-4289]</a>	10
<b>5.3</b>	<b>Minor Improvements / Correction of Bugs</b>	<b>10</b>
5.3.1	Batch Processor transform operation <a href="#">[FUNDOC-4559]</a>	10
5.3.2	Automatic Feature/DataObject linking <a href="#">[FUNDOC-4558]</a>	10
5.3.3	Automatic linking <a href="#">[FUNDOC-4586]</a>	10
5.3.4	FunDoc Editor <a href="#">[FUNDOC-4557]</a>	10
5.3.5	FunDoc Editor Table behavior <a href="#">[FUNDOC-4546]</a>	10
5.3.6	Copy and paste from Eclipse <a href="#">[FUNDOC-4536]</a>	10
5.3.7	Pdf and LaTeX Hierarchy Path <a href="#">[FUNDOC-4459]</a>	10
5.3.8	StateFlow progress bar <a href="#">[FUNDOC-4453]</a>	10
5.3.9	Bullet points in FunDoc <a href="#">[FUNDOC-4294]</a>	10
5.3.10	FunDoc Editor <a href="#">[FUNDOC-4214]</a>	10
<b>6</b>	<b>What's new in Version V12.1.R0?</b>	<b>11</b>
<b>6.1</b>	<b>Highlights</b>	<b>11</b>
6.1.1	Ascet Project documentation <a href="#">[FUNDOC-4125]</a>	11
6.1.2	Class Documentation <a href="#">[FUNDOC-4109]</a>	11
6.1.3	GUI - Documentation - Model Items Mapping <a href="#">[FUNDOC-3972]</a>	11
<b>6.2</b>	<b>New Features, Major Improvements</b>	<b>11</b>
6.2.1	Modify Technical Terms via Keyboard <a href="#">[FUNDOC-4127]</a>	11
6.2.2	Batch Processor transform operation <a href="#">[FUNDOC-4118]</a>	11
6.2.3	Tool tip for hour glass <a href="#">[FUNDOC-4116]</a>	11
6.2.4	Background Matlab Documentation <a href="#">[FUNDOC-3627]</a>	11
6.2.5	Model Mapping <a href="#">[FUNDOC-4495]</a>	11
<b>6.3</b>	<b>Minor Improvements / Correction of Bugs</b>	<b>11</b>
6.3.1	Improved handling for encapsulated classes <a href="#">[FUNDOC-4203]</a>	11
6.3.2	State machines documentation <a href="#">[FUNDOC-4044]</a>	11
6.3.3	Additional Options in GUI <a href="#">[FUNDOC-4040]</a>	11
6.3.4	Shared file fragments <a href="#">[FUNDOC-4282]</a>	11

6.3.5	Convert to Chapter Mode <a href="#">[FUNDOC-4124]</a>	12
6.3.6	Reading MKS Info from Matlab <a href="#">[FUNDOC-4393]</a>	12
6.3.7	LaTeX linebreaks in tables <a href="#">[FUNDOC-4369]</a>	12
6.3.8	Model notes in PDF <a href="#">[FUNDOC-4363]</a>	12
6.3.9	Display Formula in PDF <a href="#">[FUNDOC-4326]</a>	12
6.3.10	Formula editor <a href="#">[FUNDOC-4319]</a>	12
6.3.11	Log File Improvement <a href="#">[FUNDOC-4313]</a>	12
6.3.12	User customized colors <a href="#">[FUNDOC-4311]</a>	12
6.3.13	Find and Replace all <a href="#">[FUNDOC-4310]</a>	12
6.3.14	MKS Project Information <a href="#">[FUNDOC-4301]</a>	12
6.3.15	Editing Inline-Formula <a href="#">[FUNDOC-4288]</a>	12
6.3.16	Matlab COM-Exceptions <a href="#">[FUNDOC-4274]</a>	12
6.3.17	Format string conversion in DataObject tables <a href="#">[FUNDOC-4273]</a>	12
6.3.18	SortByName for Hierarchies <a href="#">[FUNDOC-4253]</a>	12
6.3.19	FunDoc Process Feedback <a href="#">[FUNDOC-4240]</a>	12
6.3.20	Model update <a href="#">[FUNDOC-4239]</a>	12
6.3.21	LaTeX DataObject Tables <a href="#">[FUNDOC-4216]</a>	13
6.3.22	Hierarchy Area Mapping <a href="#">[FUNDOC-4198]</a>	13
6.3.23	SaveAs function <a href="#">[FUNDOC-4114]</a>	13
6.3.24	Documentation with Ascet Model <a href="#">[FUNDOC-3824]</a>	13
6.3.25	Skipping of local classes <a href="#">[FUNDOC-4423]</a>	13
6.3.26	Batch Processor transform operation <a href="#">[FUNDOC-4559]</a>	13
6.3.27	Automatic Feature/DataObject linking <a href="#">[FUNDOC-4558]</a>	13
6.3.28	TeX-PDF Text Align <a href="#">[FUNDOC-4538]</a>	13
6.3.29	Align with for Mapping feature <a href="#">[FUNDOC-4482]</a>	13
6.3.30	Mapping Feature Align with <a href="#">[FUNDOC-4481]</a>	13
6.3.31	Pdf overlay for hierarchies <a href="#">[FUNDOC-3872]</a>	13
6.3.32	Matlab handling <a href="#">[FUNDOC-4452]</a>	13
6.3.33	Model Mapping Dialog <a href="#">[FUNDOC-4476]</a>	13
6.3.34	Search and Replace <a href="#">[FUNDOC-4441]</a>	13
6.3.35	Document date update <a href="#">[FUNDOC-4451]</a>	13
6.3.36	Manual Mapping Dialog <a href="#">[FUNDOC-4477]</a>	13
6.3.37	Automatic linking <a href="#">[FUNDOC-4586]</a>	14
<b>7</b>	<b><i>What's new in Version V11.3.R2?</i></b>	<b>15</b>
7.1	<b>Highlights</b>	15
7.2	<b>New Features, Major Improvements</b>	15
7.3	<b>Minor Improvements / Correction of Bugs</b>	15
7.3.1	Shared file fragments <a href="#">[FUNDOC-4282]</a>	15
<b>8</b>	<b><i>What's new in Version V11.3.R1?</i></b>	<b>16</b>
8.1	<b>Highlights</b>	16
8.2	<b>New Features, Major Improvements</b>	16
8.2.1	FunDoc Editor <a href="#">[FUNDOC-4233]</a>	16
8.3	<b>Minor Improvements / Correction of Bugs</b>	16
8.3.1	Model path in cms function <a href="#">[FUNDOC-4257]</a>	16
<b>9</b>	<b><i>What's new in Version V11.3.R0?</i></b>	<b>17</b>
9.1	<b>Highlights</b>	17
9.1.1	Automatic Feature/DataObject linking <a href="#">[FUNDOC-4036]</a>	17
9.1.2	MKS Information in Documentation <a href="#">[FUNDOC-3879]</a>	17
9.1.3	Formula Editor - TeXLive <a href="#">[FUNDOC-3790]</a>	17
9.1.4	ASCET <a href="#">[FUNDOC-4009]</a>	17

<b>9.2</b>	<b>New Features, Major Improvements</b>	<b>17</b>
9.2.1	FunDoc Image Format Support [ <a href="#">FUNDOC-3782</a> ]	17
9.2.2	Improved handling for encapsulated classes [ <a href="#">FUNDOC-4203</a> ]	17
9.2.3	Automatic Data Source recognition [ <a href="#">FUNDOC-4039</a> ]	17
9.2.4	Batch Mode Automatic Conversion [ <a href="#">FUNDOC-3795</a> ]	17
<b>9.3</b>	<b>Minor Improvements / Correction of Bugs</b>	<b>17</b>
9.3.1	Toolbar Icons [ <a href="#">FUNDOC-1157</a> ]	17
9.3.2	Aggregation with .ddx file [ <a href="#">FUNDOC-4143</a> ]	17
9.3.3	LibraryAggregation [ <a href="#">FUNDOC-4041</a> ]	17
9.3.4	TeX Formatter [ <a href="#">FUNDOC-4038</a> ]	17
9.3.5	MatLab Model Print [ <a href="#">FUNDOC-3865</a> ]	18
9.3.6	Matlab model parsing [ <a href="#">FUNDOC-4066</a> ]	18
9.3.7	SC Condition Import [ <a href="#">FUNDOC-4046</a> ]	18
9.3.8	GUI - Documentation - Model Items [ <a href="#">FUNDOC-3985</a> ]	18
9.3.9	FSX File - Calibration Notes [ <a href="#">FUNDOC-3965</a> ]	18
9.3.10	Indent for Bulletpoints [ <a href="#">FUNDOC-3860</a> ]	18
9.3.11	TeX Data Object Table output [ <a href="#">FUNDOC-3752</a> ]	18
9.3.12	Library Aggregation Status Window [ <a href="#">FUNDOC-3436</a> ]	18
9.3.13	Progress Bar [ <a href="#">FUNDOC-2350</a> ]	18
<b>10</b>	<b>No longer supported features</b>	<b>19</b>
<b>11</b>	<b>Questions?</b>	<b>19</b>

## 1 Purpose and scope

This document describes the improvements and changes of FunDoc V13.1 compared to V11.3

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

### 2.1 Highlights

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

FunDoc supports now Ascet version 6.4.3.

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

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

### 2.2 New Features, Major Improvements

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

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

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

Usability improvements for the formula editor.

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

The font used in the FunDocEditor can now be changed.

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

Improved the GUI by removing the inner scrollbar

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

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

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

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

### 2.3 Minor Improvements / Correction of Bugs

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

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

#### 2.3.2 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.

#### 2.3.3 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.

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

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

### **2.3.5 Hierarchy Mapping [\[FUNDOC-4958\]](#)**

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

### **2.3.6 TeX and Pdf Formatter [\[FUNDOC-4923\]](#)**

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

### **2.3.7 FunDoc Dictionary [\[FUNDOC-4312\]](#)**

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

### **2.3.8 Functionpackages [\[FUNDOC-4122\]](#)**

Fixed an issue that caused the functions to be sorted incorrectly

## **3 What's new in Version V13.1.R0?**

### **3.1 Highlights**

#### **3.1.1 FunDoc TeXFormatter [\[FUNDOC-4521\]](#)**

FunDoc can now display tooltips within the hierarchy images.

#### **3.1.2 FunDoc Documentation [\[FUNDOC-4413\]](#)**

Added the option to trigger the MDX Export via PACES.

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

#### **3.2.1 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

#### **3.2.2 FunDoc Editor [\[FUNDOC-3809\]](#)**

The editor now has an undo function.

#### **3.2.3 FunDocUserSettings [\[FUNDOC-1888\]](#)**

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

#### **3.2.4 Manual Mapping [\[FUNDOC-4686\]](#)**

Improved the handling for the manual mapping feature.

### **3.3 Minor Improvements / Correction of Bugs**

#### **3.3.1 Save Document Structure [\[FUNDOC-4905\]](#)**

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

#### **3.3.2 Mapping Dialog Split-Behavior [\[FUNDOC-4875\]](#)**

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

#### **3.3.3 Mapping dialog handling [\[FUNDOC-4888\]](#)**

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

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

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

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

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

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

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

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

fixed an issue regarding not copied chapters and topics

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

### 4.1 Highlights

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

Mdx files can be used to select the DataLink

### 4.2 New Features, Major Improvements

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

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

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

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

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

Improved context menu for Windows classic theme

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

FunDoc uses now .Net Framework 4.6

### 4.3 Minor Improvements / Correction of Bugs

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

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

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

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

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

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

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

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



#### 4.3.5 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.

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

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

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

Fixed an issue causing overlapping hyperlinks for subsystem hierarchy links

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### 5.1 Highlights

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

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

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

FunDoc supports now Matlab 2015b.

## 5.2 New Features, Major Improvements

### 5.2.1 FunDocConfig Behavior [[FUNDOC-3869](#)]

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

### 5.2.2 Options in GUI [[FUNDOC-4321](#)]

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

### 5.2.3 Formula editor [[FUNDOC-4289](#)]

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

## 5.3 Minor Improvements / Correction of Bugs

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

Added and modified parameter to align output with format process.

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

fixed an issue to improve the OutOfMemoryException problem.

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

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

### 5.3.4 FunDoc Editor [[FUNDOC-4557](#)]

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

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

Improved the behavior of the editor regarding tabs in tables.

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

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

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

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

### 5.3.8 StateFlow progress bar [[FUNDOC-4453](#)]

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

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

Fixed an issue displaying the tabs for bullet points incorrectly.

### 5.3.10 FunDoc Editor [[FUNDOC-4214](#)]

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

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

### 6.1 Highlights

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

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

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

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

#### 6.1.3 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.

### 6.2 New Features, Major Improvements

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

Added the possibility to modify technical terms completely by keyboard.

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

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

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

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

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

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

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

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

### 6.3 Minor Improvements / Correction of Bugs

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

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

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

It is possible to document state machines similar to classes.

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

Several new configuration options were added to the GUI.

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

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

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

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

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

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

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

Fixed an issue with line breaks within tables.

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

Fixed an issue that caused full justification in model notes.

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

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

### **6.3.10 Formula editor** [[FUNDOC-4319](#)]

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

### **6.3.11 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.

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

Fixed an issue that user customized colors were not saved.

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

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

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

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

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

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

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

fixed an issue that caused 2 exceptions during documentation process.

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

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

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

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

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

Fixed an issue regarding wrong process feedback from FunDoc.

### **6.3.20 Model update** [[FUNDOC-4239](#)]

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

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

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

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

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

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

Fixed an issue regarding the SaveAs function.

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

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

### **6.3.25 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.

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

Added and modified parameter to align output with format process.

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

fixed an issue to improve the OutOfMemoryException problem.

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

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

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

Fixed an issue regarding Align with to improve usability.

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

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

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

Improved the algorithm to identify the hierarchies in imported models.

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

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

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

Fixed an issue that prevented the dialog to pop up.

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

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

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

The date in the document will now be updated.

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

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

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

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

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

### 7.1 Highlights

### 7.2 New Features, Major Improvements

### 7.3 Minor Improvements / Correction of Bugs

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

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

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

### 8.1 Highlights

### 8.2 New Features, Major Improvements

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

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

### 8.3 Minor Improvements / Correction of Bugs

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

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



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

### 9.1 Highlights

#### 9.1.1 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.

#### 9.1.2 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.

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

The formula editor in FunDoc now also works with TeXLive.

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

FunDoc supports now Ascet 6.3

### 9.2 New Features, Major Improvements

#### 9.2.1 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.

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

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

#### 9.2.3 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.

#### 9.2.4 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

### 9.3 Minor Improvements / Correction of Bugs

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

Implemented bigger icons for the FunDoc toolbar.

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

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

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

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

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

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

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

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

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

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

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

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

### **9.3.8 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.

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

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

### **9.3.10 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.

### **9.3.11 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.

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

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

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

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

## 10 No longer supported features

## 11 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>