

The ltdocinit module

The L^AT_EX Project^{*}

Version 0.97d, released 2026-10-06

1 ltdocinit documentation

This small module previously defined `\DocumentMetadata` but the definition has been moved to latex-lab. The documentation can be found in `documentmetadata-support-doc.pdf`

`\DocumentMetadata` is also used to activate the new PDF management code and it loads a number of required files for the PDF management code. As this forces the loading of the backend files, a backend which can't be detected automatically like `dvipdfmx`, must be set in the first `\DocumentMetadata`.

The module also defines commands to store document properties in a global container.

This module will slowly disappear.

1.1 Container for document properties

The module provides a container where classes, packages and users can store properties of the document which are perhaps of interest or use for other packages or the author.

The properties are stored with a key `label/property`. The values can be retrieved expandably.

<code>\AddToDocumentProperties</code>	<code>\AddToDocumentProperties[\langle label \rangle]{\langle property \rangle}{\langle value \rangle}</code>
---------------------------------------	---

This stores `\langle value \rangle` under the key `\langle label \rangle/\langle property \rangle`. By default `\langle label \rangle` is the current package name `\@currname`. If another label is chosen, it should be one which avoids clashes with other packages using the container. The label `document` is reserved.

<code>\GetDocumentProperty</code>	<code>\GetDocumentProperty{\langle label/property \rangle}</code>
<code>\pdfmanagement_get_documentproperty:n</code>	<code>\pdfmanagement_get_documentproperty:n {\langle label/property \rangle}</code>

Updated: 2025-06-21

Expands to the `\langle value \rangle` corresponding to `\langle label/property \rangle` in the container. If `\langle label/property \rangle` is missing, this has an empty expansion. The result is returned within `\exp_not:n`, which means that the `\langle value \rangle` does not expand further when appearing in an x-type argument expansion. The older names `\GetDocumentProperties` and `\pdfmanagement_get_documentproperties:n` are still provided for compatibility.

^{*}E-mail: latex-team@latex-project.org

<code>\pdfmanagement_get_documentproperty:nNTF</code>	<code>\pdfmanagement_get_documentproperty:nNTF {<label/property>} <tl var> {<true code>} {<false code>}</code>
---	--

Updated: 2025-06-21

If the `<label/property>` is not present in the document properties container, leaves the `<false code>` in the input stream. The value of the `<tl var>` is not defined in this case and should not be relied upon. If the `<label/property>` is present in the container, stores the corresponding `<value>` in the `<tl var>` without removing it from the container, then leaves the `<true code>` in the input stream. The `<tl var>` is assigned locally. The older name `\pdfmanagement_get_documentproperty:nN` is still provided for compatibility.

<code>\ShowDocumentProperties</code>	<code>\ShowDocumentProperties</code>
<code>\LogDocumentProperties</code>	<code>\LogDocumentProperties</code>

This shows/logs the current content of the container.

References

- [1] Frank Mittelbach and Chris Rowley: *L^AT_EX Tagged PDF — A blueprint for a large project*. <https://latex-project.org/publications/indexbyyear/2020/>

2 ldocinit implementation

```

1 <@@=pdfmanagement>
2 <*header>
3 \ProvidesExplPackage{ldocinit}{2026-10-06}{0.97d}
4 {Initialize document metadata}
5 </header>

6 <*package>

```

2.1 Variables

This variable definitions can be remove once latex-lab has been updated to provide them too. TODO: check if that is needed if the pdfmanagement is loaded as standalone.

```

\g__pdfmanagement_firstaidoff_clist
7 \clist_if_exist:NF \g__pdfmanagement_firstaidoff_clist
8 { \clist_new:N \g__pdfmanagement_firstaidoff_clist }

(End of definition for \g__pdfmanagement_firstaidoff_clist.)

```

2.2 Container for document Properties

This should move into the kernel, so we test if the command is already defined.

```

9 \cs_if_exist:NTF\AddToDocumentProperties
10 {

\pdfmanagement_get_documentproperty:n

11 \cs_new:Npn\pdfmanagement_get_documentproperty:n #1
12 {
13 \prop_item:Nn \g__kernel_documentproperties_prop {#1}
14 }

```

(End of definition for \pdfmanagement_get_documentproperty:n. This function is documented on page 1.)

\pdfmanagement_get_documentproperty:nNTF

```

15 \prg_new_protected_conditional:Npnn
16 \pdfmanagement_get_documentproperty:nN #1#2 { T , F , TF }
17 {
18 \prop_get:NnNTF \g__kernel_documentproperties_prop {#1} #2
19 {
20 \prg_return_true:
21 }
22 {
23 \prg_return_false:
24 }
25 }

```

(End of definition for \pdfmanagement_get_documentproperty:nNTF. This function is documented on page 2.)

We provide the old commands as fallback:

```

26 \cs_new_eq:NN\GetDocumentProperties\GetDocumentProperty
27 \cs_new_eq:NN
28 \pdfmanagement_get_documentproperties:n
29 \pdfmanagement_get_documentproperty:n
30 \prg_new_eq_conditional:NNn
31 \pdfmanagement_get_documentproperties:nN
32 \pdfmanagement_get_documentproperty:nN
33 { T , F , TF }
34 }% else existence
35 {

```

The container for the document properties is a prop

\g__pdfmanagement_documentproperties_prop

```

36 \prop_new:N \g__pdfmanagement_documentproperties_prop %
(End of definition for \g__pdfmanagement_documentproperties_prop.)

```

\AddToDocumentProperties

```

37 \NewDocumentCommand\AddToDocumentProperties{0{\@currname}mm}
38 {
39 \exp_args:NNe
40 \prop_gput:Nnn \g__pdfmanagement_documentproperties_prop
41 {
42 \tl_if_blank:eTF {#1}{top-level/}{#1/} #2
43 }
44 { #3}
45 }

```

(End of definition for \AddToDocumentProperties. This function is documented on page 1.)

\GetDocumentProperty

\GetDocumentProperties

```

46 \cs_new:Npn\GetDocumentProperty #1
47 {
48 \prop_item:Nn \g__pdfmanagement_documentproperties_prop {#1}
49 }
50 \cs_new_eq:NN\GetDocumentProperties\GetDocumentProperty

```

(End of definition for `\GetDocumentProperty` and `\GetDocumentProperties`. These functions are documented on page 1.)

For uses in modules (e.g. `l3pdfmeta`) we provide an `expl3` version without the `xparse` overhead:

`\pdfmanagement_get_documentproperty:n`

```

51   \cs_new:Npn\pdfmanagement_get_documentproperty:n #1
52   {
53     \prop_item:Nn \g__pdfmanagement_documentproperties_prop {#1}
54   }
55   \cs_new_eq:NN
56   \pdfmanagement_get_documentproperties:n
57   \pdfmanagement_get_documentproperty:n

```

(End of definition for `\pdfmanagement_get_documentproperty:n`. This function is documented on page 1.)

The following allows to retrieve the values with branching.

`\pdfmanagement_get_documentproperty:nTF`

```

58   \prg_new_protected_conditional:Npnn
59   \pdfmanagement_get_documentproperty:nN #1#2 { T , F , TF }
60   {
61     \prop_get:NnNTF \g__pdfmanagement_documentproperties_prop {#1} #2
62     {
63       \prg_return_true:
64     }
65     {
66       \prg_return_false:
67     }
68   }
69   \prg_new_eq_conditional:NNn
70   \pdfmanagement_get_documentproperties:nN
71   \pdfmanagement_get_documentproperty:nN
72   { T , F , TF }

```

(End of definition for `\pdfmanagement_get_documentproperty:nTF`. This function is documented on page 2.)

`\ShowDocumentProperties`

```

73   \msg_new:nnn { pdfmanagement } { show-properties }
74   {
75     The~following~document~properties~have~been~stored:
76     #1
77   }
78   \NewDocumentCommand\ShowDocumentProperties {}
79   {
80     \msg_show:nne {pdfmanagement}{show-properties}
81     {
82       \prop_map_function:NN \g__pdfmanagement_documentproperties_prop \msg_show_item:nn
83     }
84   }
85   \NewDocumentCommand\LogDocumentProperties {}
86   {

```

```

87     \msg_log:nne {pdfmanagement}{show-properties}
88     {
89         \prop_map_function:NN \g__pdfmanagement_documentproperties_prop \msg_show_item:nn
90     }
91 }

92 } % end of existence test

(End of definition for \ShowDocumentProperties. This function is documented on page 2.)

93 \end{package}

```

Index

The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.

A	<code>\msg_show_item:nn</code> 82, 89
<code>\AddToDocumentProperties</code> 1, 9, <u>37</u>	
C	N
clist commands:	<code>\NewDocumentCommand</code> 37, 78, 85
<code>\clist_if_exist:NTF</code> 7	
<code>\clist_new:N</code> 8	
cs commands:	P
<code>\cs_if_exist:NTF</code> 9	pdfmanagement commands:
<code>\cs_new:Npn</code> 11, 46, <u>51</u>	<code>\pdfmanagement_get_documentproperties:n</code>
<code>\cs_new_eq:NN</code> 26, 27, 50, <u>55</u>	 1, 28, 56
	<code>\pdfmanagement_get_documentproperties:nN</code>
D	 31, 70
<code>\DocumentMetadata</code> 1	<code>\pdfmanagement_get_documentproperty:n</code>
	 1, <u>11</u> , 11, 29, <u>51</u> , 51, 57
E	<code>\pdfmanagement_get_documentproperty:nN</code>
exp commands:	 2, 16, 32, 59, 71
<code>\exp_args:NNe</code> 39	<code>\pdfmanagement_get_documentproperty:nNTF</code>
<code>\exp_not:n</code> 1	 2, <u>15</u> , <u>58</u>
	pdfmanagement internal commands:
G	<code>\g__pdfmanagement_documentproperties_-</code>
<code>\GetDocumentProperties</code> 1, 26, <u>46</u>	prop 36, 40, 48, 53, 61, 82, 89
<code>\GetDocumentProperty</code> 1, 26, <u>46</u>	<code>\g__pdfmanagement_firstaidoff_-</code>
	clist <u>7</u>
K	prg commands:
kernel internal commands:	<code>\prg_new_eq_conditional:NNn</code> .. 30, 69
<code>\g__kernel_documentproperties_-</code>	<code>\prg_new_protected_conditional:Npnn</code>
prop 13, 18	 15, 58
	<code>\prg_return_false:</code> 23, 66
L	<code>\prg_return_true:</code> 20, 63
<code>\LogDocumentProperties</code> 2, 85	prop commands:
	<code>\prop_get:NnNTF</code> 18, 61
M	<code>\prop_gput:Nnn</code> 40
msg commands:	<code>\prop_item:Nn</code> 13, 48, 53
<code>\msg_log:nnn</code> 87	<code>\prop_map_function:NN</code> 82, 89
<code>\msg_new:nnn</code> 73	<code>\prop_new:N</code> 36
<code>\msg_show:nnn</code> 80	<code>\ProvidesExplPackage</code> 3

S

`\ShowDocumentProperties` 2, 73

T

TeX and LaTeX 2_ε commands:

`\currname` 37

tl commands:

`\tl_if_blank:nTF` 42