

# The ltdocinit module

The L<sup>A</sup>T<sub>E</sub>X Project\*

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## 1 ltdocinit documentation

This small module 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`.

Here only a few newer keys are defined and the older `\DeclareDocumentMetadata` is provided.

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

This module will slowly disappear.

### 1.1 `\DocumentMetadata/\DeclareDocumentMetadata`

---

`\DeclareDocumentMetadata` `\DeclareDocumentMetadata{<key-value list>}` (deprecated)

This is an older alias for `\DocumentMetadata`

Additionally to the keys described in `documentmetadata-support-doc.pdf` the following keys/values are implemented

**testphase** This key is used to load testphase code. The values it accepts and their effect will change over time, when testphase packages are added or removed or when the code is moved into the kernel. A new value here is

**latest** This loads all existing modules.

The **testphase** key can only be used in the first `\DocumentMetadata`.

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## 1.2 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.

---

`\AddToDocumentProperties` `\AddToDocumentProperties[⟨label⟩]{⟨property⟩}{⟨value⟩}`

This stores `⟨value⟩` under the key `⟨label⟩/⟨property⟩`. By default `⟨label⟩` 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.

---

`\GetDocumentProperties` `\GetDocumentProperties{⟨label/property⟩}`  
`\pdfmanagement_get_documentproperties:n` `\pdfmanagement_get_documentproperties:n{⟨label/property⟩}`

Updated: 2022-10-09

Expands to the `⟨value⟩` corresponding to `⟨label/property⟩` in the container. If `⟨label/property⟩` is missing, this has an empty expansion. The result is returned within `\exp_not:n`, which means that the `⟨value⟩` does not expand further when appearing in an x-type argument expansion.

---

`\pdfmanagement_get_documentproperties:nNTF` `\pdfmanagement_get_documentproperties:nNTF{⟨label/property⟩}`  
`⟨token list variable⟩`  
New: 2022-10-09 `{⟨true code⟩} {⟨false code⟩}`

If the `⟨label/property⟩` is not present in the document properties container, leaves the `⟨false code⟩` in the input stream. The value of the `⟨token list variable⟩` 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 `⟨token list variable⟩` without removing it from the container, then leaves the `⟨true code⟩` in the input stream. The `⟨token list variable⟩` is assigned locally.

---

`\ShowDocumentProperties` `\ShowDocumentProperties`  
`\LogDocumentProperties` `\LogDocumentProperties`

This shows/logs the current content of the container.

## References

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

## 2 ltdocinit implementation

```
1 <@@=pdfmanagement>
2 <*header>
3 \ProvidesExplPackage{ltdocinit}{2025-03-26}{0.96q}
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.

`\g_pdfmanagement_firstaidoff_clist` A list to store the firstaid code which should be disabled

```
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`.)

`\g_pdfmanagement_testphase_tl` a tl to store the testphase loading code so that we can load them at the end of the command.

```
9 \tl_if_exist:NF \g_pdfmanagement_testphase_tl
10 { \tl_new:N \g_pdfmanagement_testphase_tl }
```

(End of definition for `\g_pdfmanagement_testphase_tl`.)

## 2.2 New, temporary testphase keys

TODO: remove after 2025-06-01 release

```
11 \msg_new:nnn { meta } { testphase-latest-loading-temp }
12 {
13   Loading~testphase~modules\\
14   #1
15 }
16 \keys_define:nn { document / metadata }
17 {
18   ,testphase / latest .code:n =
19   {
20     \keys_set:nn
21     {document / metadata}
22     {testphase={phase-III,title,table,math,firstaid}}
23     \tl_gput_right:Nn\g_pdfmanagement_testphase_tl
24     {
25       \msg_note:nnn { meta } { testphase-latest-loading-temp }
26       { phase-III,~title,~table,~math,~firstaid }
27     }
28   }
29   ,tagging .choice:,
30   ,tagging / on .code:n =
31   {
32     \keys_set:nn { document / metadata }{ testphase=latest }
33   }
34   ,tagging / off .code:n =
35   {
36     \keys_set:nn { document / metadata }{ testphase=latest }
37     \AddToHook{class/before}
38     {
39       \tagpdfsetup{activate/mc=false,activate/tree=false,
40                   activate/struct=false,activate/socket=false,
41                   para/tagging=false,math/setup=}
42       \AddToDocumentProperties [document]{tagging}{inactive}
43       \AddToDocumentProperties [document]{tagging/para}{inactive}
```

```

44     % perhaps, need to test
45     %\tag_suspend:n {global}
46     %\cs_set_eq:NN\tag_suspend:n\use_none:n
47     %\cs_set_eq:NN\tag_resume:n \use_none:n
48     %\cs_new_protected:Npn \tag_mc_begin:n #1 { \__tag_whatsits: \int_gincr:N \c@g__tag_
49     %\cs_new_protected:Nn \tag_mc_end:{ \__tag_whatsits: }
50     %\cs_new_protected:Npn \tag_struct_begin:n #1 {\int_gincr:N \c@g__tag_struct_abs_i
51     %\cs_new_protected:Npn \tag_struct_end:{}_
52   }
53 }
54 ,tagging / draft .code:n =
55 {
56   \keys_set:nn { document / metadata }{ testphase=latest }
57   \AddToHook{shipout/lastpage}[tagging-setup]{\tagpdfsetup{activate/tree=false}}
58   \DeclareHookRule{shipout/lastpage}{tagging-setup}{before}{tagpdf}
59 }
60 ,tagging-setup .code:n =
61 {
62   \tl_gclear:N\g__pdfmanagement_testphase_tl
63   \keys_set:nn { document / metadata }{ testphase=latest }
64   \keys_set_groups:nnn{__tag/setup}{load}{#1}
65   \AddToHook{class/before}
66   {\keys_set_exclude_groups:nnn {__tag/setup}{load}{#1}}
67 }
68 }
69 \keys_define:nn{__tag/setup}
70 {
71   ,modules .code:n =
72   {
73     \tl_gclear:N\g__pdfmanagement_testphase_tl
74     \keys_set:nn { document / metadata }{testphase={phase-II,#1}}
75   }
76   ,modules .groups:n = { load }
77   ,extra-modules .code:n =
78   {
79     \keys_set:nn { document / metadata }{testphase={#1}}
80   }
81   ,extra-modules .groups:n = { load }
82 }

```

## 2.3 \DeclareDocumentMetadata

\DocumentMetadata is defined by the kernel. We only define the older alias \DeclareDocumentMetadata

**\DeclareDocumentMetadata**

```
83 \NewCommandCopy\DeclareDocumentMetadata\DocumentMetadata
```

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

## 2.4 Container for document Properties

The container for the document properties is a prop

`\g_pdfmanagement_documentproperties_prop`

```
84 \prop_new:N \g_pdfmanagement_documentproperties_prop %
```

(End of definition for `\g_pdfmanagement_documentproperties_prop`.)

### `\AddToDocumentProperties`

```
85 \NewDocumentCommand\AddToDocumentProperties{0{\@currname}mm}
```

```
86 {
```

```
87   \exp_args:NNe
```

```
88   \prop_gput:Nnn \g_pdfmanagement_documentproperties_prop
```

```
89   {
```

```
90     \tl_if_blank:eTF {#1}{top-level/}{#1/} #2
```

```
91   }
```

```
92   { #3}
```

```
93 }
```

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

### `\GetDocumentProperties`

```
94 \NewExpandableDocumentCommand\GetDocumentProperties{m}
```

```
95 {
```

```
96   \prop_item:Nn \g_pdfmanagement_documentproperties_prop {#1}
```

```
97 }
```

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

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

`\pdfmanagement_get_documentproperties:n`

```
98 \cs_new:Npn\pdfmanagement_get_documentproperties:n #1
```

```
99 {
```

```
100   \prop_item:Nn \g_pdfmanagement_documentproperties_prop {#1}
```

```
101 }
```

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

The following allows to retrieve the values with branching.

`\pdfmanagement_get_documentproperties:nNTF`

```
102 \prg_new_protected_conditional:Npnn
```

```
103   \pdfmanagement_get_documentproperties:n #1#2 { T , F , TF }
```

```
104 {
```

```
105   \prop_get:NnNTF \g_pdfmanagement_documentproperties_prop {#1} #2
```

```
106   {
```

```
107     \prg_return_true:
```

```
108   }
```

```
109   {
```

```
110     \prg_return_false:
```

```
111   }
```

```
112 }
```

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

## `\ShowDocumentProperties`

```
113 \msg_new:nnn { pdfmanagement } { show-properties }
114 {
115   The~following~document~properties~have~been~stored:
116   #1
117 }
118 \NewDocumentCommand\ShowDocumentProperties {}
119 {
120   \msg_show:nne {pdfmanagement}{show-properties}
121   {
122     \prop_map_function:NN \g__pdfmanagement_documentproperties_prop \msg_show_item:nn
123   }
124 }
125 \NewDocumentCommand\LogDocumentProperties {}
126 {
127   \msg_log:nne {pdfmanagement}{show-properties}
128   {
129     \prop_map_function:NN \g__pdfmanagement_documentproperties_prop \msg_show_item:nn
130   }
131 }
```

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

```
132 </package>
```

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