

# The ltdocinit module

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

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## 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.

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`\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.

---

`\GetDocumentProperty` `\GetDocumentProperty{⟨label/property⟩}`  
`\pdfmanagement_get_documentproperty:n` `\pdfmanagement_get_documentproperty:n {⟨label/property⟩}`

Updated: 2025-06-21

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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. The older names `\GetDocumentProperties` and `\pdfmanagement_get_documentproperties:n` are still provided for compatibility.

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```
\pdfmanagement_get_documentproperty:nNTF \pdfmanagement_get_documentproperty:nNTF {<label/property>} <t1 var>
                                         {(true code)} {(false code)}
```

---

Updated: 2025-06-21

If the  $\langle label/property \rangle$  is not present in the document properties container, leaves the  $\langle false code \rangle$  in the input stream. The value of the  $\langle t1 var \rangle$  is not defined in this case and should not be relied upon. If the  $\langle label/property \rangle$  is present in the container, stores the corresponding  $\langle value \rangle$  in the  $\langle t1 var \rangle$  without removing it from the container, then leaves the  $\langle true code \rangle$  in the input stream. The  $\langle t1 var \rangle$  is assigned locally. The older name  $\backslash pdfmanagement\_get\_documentproperty:nN$  is still provided for compatibility.

---

```
\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}{2026-04-21}{0.97a}
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 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  $\backslash g\_pdfmanagement\_firstaidoff\_clist$ .)

### 2.2 Container for document Properties

The container for the document properties is a prop

```
\g_pdfmanagement_documentproperties_prop
9 \prop_new:N \g_pdfmanagement_documentproperties_prop %
(End of definition for \g_pdfmanagement_documentproperties_prop.)
```

## `\AddToDocumentProperties`

```
10 \NewDocumentCommand\AddToDocumentProperties{O{\@currname}mm}  
11 {  
12   \exp_args:NNe  
13   \prop_gput:Nnn \g__pdfmanagement_documentproperties_prop  
14   {  
15     \tl_if_blank:eTF {#1}{top-level/}{#1/} #2  
16   }  
17   { #3}  
18 }
```

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

## `\GetDocumentProperty`

### `\GetDocumentProperties`

```
19 \cs_new:Npn\GetDocumentProperty #1  
20 {  
21   \prop_item:Nn \g__pdfmanagement_documentproperties_prop {#1}  
22 }  
23 \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`

```
24 \cs_new:Npn\pdfmanagement_get_documentproperty:n #1  
25 {  
26   \prop_item:Nn \g__pdfmanagement_documentproperties_prop {#1}  
27 }  
28 \cs_new_eq:NN  
29   \pdfmanagement_get_documentproperties:n  
30   \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`

```
31 \prg_new_protected_conditional:Npnn  
32   \pdfmanagement_get_documentproperty:nN #1#2 { T , F , TF }  
33   {  
34     \prop_get:NnNTF \g__pdfmanagement_documentproperties_prop {#1} #2  
35     {  
36       \prg_return_true:  
37     }  
38     {  
39       \prg_return_false:  
40     }  
39   }
```

```

41     }
42 \prg_new_eq_conditional:NNn
43   \pdfmanagement_get_documentproperties:nN
44   \pdfmanagement_get_documentproperty:nN
45   { T , F , TF }

```

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

## `\ShowDocumentProperties`

```

46 \msg_new:nnn { pdfmanagement } { show-properties }
47   {
48     The~following~document~properties~have~been~stored:
49     #1
50   }
51 \NewDocumentCommand\ShowDocumentProperties {}
52   {
53     \msg_show:nne {pdfmanagement}{show-properties}
54     {
55       \prop_map_function:NN \g__pdfmanagement_documentproperties_prop \msg_show_item:nn
56     }
57   }
58 \NewDocumentCommand\LogDocumentProperties {}
59   {
60     \msg_log:nne {pdfmanagement}{show-properties}
61     {
62       \prop_map_function:NN \g__pdfmanagement_documentproperties_prop \msg_show_item:nn
63     }
64   }

```

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

```
65 \endpackage
```

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