

# The documentmetadata-support code\*

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## 1 Introduction

The kernel command `\DocumentMetadata`, which can be used as the very first declaration in a document (i.e., before `\documentclass`), defines metadata and other configuration data that applies to the document as a whole (using a key/value syntax).

While the underlying functionality is still under development (e.g., further keys will be added over time and keys marked temporary may vanish again) the code for `\DocumentMetadata` is placed in a separate bundle, so that it is easier to update it without the need to build a full L<sup>A</sup>T<sub>E</sub>X release. Over time the functionality will move fully into the kernel.

From a process perspective `\DocumentMetadata` loads the `pdfmanagement` code the first time it is called and then redefines itself to only manage key/value pairs in case it is called more than once. In particular, this means that a document without a `\DocumentMetadata` declaration has no code available for extended management of PDF output as needed for various features developed as part of the multi-year “Tagged PDF” project [1].

## 2 Currently supported key/values

Currently the following keys are implemented for `\DocumentMetadata`:

**backend** Passes the backend name to `expl3`. This is needed only if the needed backend can’t be automatically determined or if the workflow used requires a special backend.

**pdfversion** Sets the PDF version explicitly, e.g., `pdfversion=1.7`

**uncompress** (no value) Forces an uncompressed pdf — mainly for debugging purposes.

**lang** Explicitly sets the Lang entry in the Catalog, e.g., `lang=de-DE`. If not given the default value used is `en-US`.

**pdfstandard** Choice key to set the pdf standard. Currently `A-1b`, `A-2a`, `A-2b`, `A-2u`, `A-3a`, `A-3b`, `A-3u` and `A-4` are accepted as values. The casing is irrelevant, `a-1b` works too. The underlying code to ensure the requirements (as far as they can be ensured) is still incomplete, but a color profile is included and the `/OutputIntent` is set. The `u` variants for example do not force unicode, but they will pass the

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information to hyperref and hyperxmp. The **a** variants do *not* enforce (or even test) a tagged pdf yet. The **A-4** support is currently incomplete. More information can be found in the documentation of `l3pdfmeta`.

**colorprofiles** This allows to load icc-colorprofiles. Details are described in the documentation of `l3pdfmeta`.

**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.

**phase-I** This value loads code implementing the first phase of the project [1], i.e., it will load the `tagpdf` package. It will also activate tagging by issuing `\tagpdfsetup{activate,interwordspace}`. This phase is frozen.

**phase-II** This is the current development phase. Currently it differs from **phase-I** only in one point: It will additionally activate tagging of paragraphs with `\tagpdfsetup{paratagging}`. In the upcoming months it will also enable automatic tagging of other basic document elements.

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

**debug** This key activates some debug options. It takes a list of key-values as value. Currently the following keys are known:

**para** with the default and only value `show`. It will activate the `paratagging-show` option of `tagpdf`,

**log** with the values as described in the documentation `tagpdf`,

**uncompress** which does the same as `uncompress` as main key

**pdfmanagement** a boolean which allows to deactivate the `pdfmanagement`.

**firstaidoff** This accepts a comma lists of keywords and disables the patches related to them. More information can be found in the documentation of `pdfmanagement-firstaid`.

## 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/>

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