



Variable Substitution Engine

Concept

Template is a plain text file. Template may contain substitution variables, which are replaced by actual values during processing. Substitution variable name is a text between percent signs '%'. To prevent misinterpretation, two escape sequences are supported when processing:

- \% is replaced by %
- \\ is replaced by \

Variable name consists from several parts separated by points. First (leftmost) part is the object name. Supported object names are:

- **job** - references to the job
- **client** - references to the client to which the job belongs
- **order** - references to the order to which the job belongs
- **revision** - references to the current revision on the job

Second part is a sub-object name or attribute name. For sub-objects, there are some attributes defined, depending on the sub-object type.

- for **jobs** and **orders**, there is **props** sub-object
- for **revisions**, there is **pdfInfo** sub-object

As long the syntax is correct, all variables yield valid strings. If a variable references to a not existing property, it yields an empty string.

If the syntax is not correct, then the variable will yield a corresponding error message.

Formatting

Inside percent signs, after the variable name, a format specification can be added. There are two types of format specifications.

Numbers and strings formatting

Example

```
%job.props.print_height|.3d%
```

See PHP [sprintf\(\)](http://php.net/manual/en/function.sprintf.php) [http://php.net/manual/en/function.sprintf.php] documentation for full description of possible format strings.

Note the differences:

- The format specification doesn't include leading % symbol
- An additional format type is added:
 - 't' - if precision is not specified, then it works identical to 's', else trims to the precision with adding ellipsis to the end of the string.
- A start offset can be specified before the format string in the following form: **20:.10s**. Note that the start offset can be specified only for 't' and 's' format types. If the start offset is greater than the argument's length, then the output will be empty.

Date and time formatting

Example

```
%job.ship_date|m-d-Y%
```

The previous example will yield “01-20-2016” assuming that the ship date is 20 January 2016. Full description of possible format strings can be found [here](http://php.net/manual/en/function.date.php) [http://php.net/manual/en/function.date.php].

Other examples on formatting

Template	Value of the variable	Result	Notes
>%job.props.quantity .5d%<	123	> 123<	Note the two spaces to the left of 123. That is because the format specified the field width of 5 symbols.
>%job.description .10t%<	20 characters length	20 char...	Note the output is exactly 10 symbols wide, with ellipsis ... added at the end.
>%job.description 10:.10s%<	20 characters length	ers length	Note that the output started from 10th symbol.
>%job.props.height .5f%<	0.0012345	0.00123	Note that the output is rounded up to 5 decimal digits.
>%job.ship_date \%1 \t\h\e j5%<	2016-01-20 16:10	Wednesday the 20th	Note that for dates, the formatting should be always specified, like this: %job.ship_date m/D/Y%

List of available variables

Referencing the job

Name	Description / Notes
job.name	
job.description	
job.kfpx	Preflighting profile
job.notes	
job.ship_date	This variable is of type DateTime , so, the suitable format strings must be used.
job.start_date	This variable is of type DateTime , so, the suitable format strings must be used.
job.props	<p>This sub-object contains values of defined dynamic properties. Currently, default dynamic properties for jobs are:</p> <ul style="list-style-type: none"> • email_contact • min_ppi • mis_contact • mis_job_number • phone_contact • pm_name • print_height • print_width • product_types • quantity • rep_name • sales_rep • shipping_address
job.props.printWidthMm	Value of print_width dynamic property converted to millimeters.
job.props.printHeightMm	Value of print_height dynamic property converted to millimeters.
job.props.printWidthInches	Value of print_width dynamic property converted to inches.
job.props.printHeightInches	Value of print_height dynamic property converted to inches.
job.formattedFinalSize	<p>Contains formatted final size of the job (created from print_width and print_height dynamic properties), in system dimension units. Example:</p> <p>2.450 x 3.457 in</p>

<code>job.createdBy.name</code>	Name of the user who initially created the job
<code>job.createdBy.email</code>	Email of the user who initially created the job
<code>job.scale_pages_x</code> , <code>job.scale_pages_y</code>	These variables are used for scaling PDFs. The <code>job.scale_pages_x</code> variable yields the <i>smaller</i> of properties <code>print_height</code> and <code>print_width</code> , or, if these properties are empty, the length of the <i>shorter</i> side of the <i>trimbox</i> of the first page in the PDF. Correspondingly, the <code>job.scale_pages_y</code> yields the <i>larger</i> of those properties or the length of the <i>longer</i> side of the <i>trimbox</i> . Both these variables are in inches.

Referencing the order

Name	Description / Notes
<code>order.name</code>	
<code>order.description</code>	
<code>order.kfpx</code>	preflight filename (without path) ?
<code>order.notes</code>	
<code>order.ship_date</code>	This variable is of type DateTime , so, the suitable format strings must be used.
<code>order.start_date</code>	This variable is of type DateTime , so, the suitable format strings must be used.
<code>order.props</code>	<p>This sub-object contains values of defined dynamic properties. Currently, default dynamic properties for orders are:</p> <ul style="list-style-type: none"> • <code>min_ppi</code> • <code>pm_name</code> • <code>print_height</code> • <code>print_width</code> • <code>product_types</code> • <code>rep_name</code>
<code>order.createdBy.name</code>	Name of the user who initially created the order
<code>order.createdBy.email</code>	Email of the user who initially created the order

Referencing the client

Name	Description / Notes
<code>client.name</code>	Name of the client

Referencing the revision

Name	Description / Notes
revision.original_filename	
revision.ordinalNumber	The ordinal number of the revision within the job.
revision.pdfInfo.pages.count	Number of pages.
revision.pdfInfo.pages.XXX.formattedPrintSize	The format is the same as for <code>job.formattedFinalSize</code> . XXX should be substituted with the page number. Note that pages are numbered from 1, not from 0.
revision.pdfInfo.pages.XXX.formattedMediaboxSize	Size of the mediabox.
revision.pdfInfoInches.pages.XXX.formattedMediaboxSize	Size of the mediabox in inches.
revision.pdfInfoMm.pages.XXX.formattedMediaboxSize	Size of the mediabox in mm.
revision.pdfInfo.pages.XXX.formattedCropboxSize	Size of the cropbox.
revision.pdfInfoInches.pages.XXX.formattedCropboxSize	Size of the cropbox in inches.
revision.pdfInfoMm.pages.XXX.formattedCropboxSize	Size of the cropbox in mm.
revision.pdfInfo.pages.XXX.formattedTrimboxSize	Size of the trimbox.
revision.pdfInfoInches.pages.XXX.formattedTrimboxSize	Size of the trimbox in inches.
revision.pdfInfoMm.pages.XXX.formattedTrimboxSize	Size of the trimbox in mm.
revision.pdfInfo.pages.XXX.formattedBleedboxSize	Size of the bleedbox.
revision.pdfInfoInches.pages.XXX.formattedBleedboxSize	Size of the bleedbox in inches.
revision.pdfInfoMm.pages.XXX.formattedBleedboxSize	Size of the bleedbox in mm.
revision.pdfInfo.filename	Same as <code>revision.original_filename</code>
revision.pdfInfo.pdf_version	
revision.pdfInfo.filesize_bytes	Size of the file in bytes
revision.pdfInfo.title	
revision.pdfInfo.author	
revision.pdfInfo.creator	
revision.pdfInfo.producer	

<code>revision.pdfInfo.colors.count</code>	Number of colors defined in the PDF file.
<code>revision.pdfInfo.colors.0 ... revision.pdfInfo.colors.N</code>	Color names as they defined in the PDF file, where N is a numeric index started from 0. If there is no color with such index, then the substitution variable yields empty string.
<code>revision.pdfInfo.pdfxversion</code>	
<code>revision.pdfInfo.trapped</code>	
<code>revision.pdfInfo.totalpages</code>	Nuber of pages. Same as <code>revision.pdfInfo.pages.count</code> .
<code>revision.pdfInfo.used_kfpx</code>	preflight filename (without path) as it reported by Callas.
<code>revision.pdfInfo.pages.XXX.page_height</code>	
<code>revision.pdfInfo.pages.XXX.page_width</code>	
<code>revision.pdfInfo.output_intent</code>	
<code>revision.createdBy.name</code>	Name of the user who initially created the revision (i.e. uploaded the artwork)
<code>revision.createdBy.email</code>	Email of the user who initially created the revision (i.e. uploaded the artwork)
<code>revision.preflightedFile</code>	Name of the preflighted file for this revision (according to the template defined in System Settings)

Note that `revision.pdfInfo...` variables yield values in system default measurement units. To get values in inches or millimeters, use `revision.pdfInfoInches...` or `revision.pdfInfoMm...` respectively. For example, `revision.pdfInfoMm.pages.1.formattedMediaboxSize` yields string like `10.000 x 20.000 mm` even if system default measurement units are inches.

Correspondence between old and new variables

This table shows correspondence between old and new variable specification syntax.

Old variable name	New syntax	Notes
<code>%JOB_NAME%</code>	<code>%job.name%</code>	
<code>%CLIENT_NAME%</code>	<code>%client.name%</code>	
<code>%SALES_REP_NAME%</code>	<code>%job.props.rep_name%</code>	
<code>%PM_NAME%</code>	<code>%job.props.pm_name%</code>	

[illegible]

%NOTES%

%job.notes%

Note: sample templates online at: <http://107.191.33.30:9040/> [<http://107.191.33.30:9040/>]

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