
XPubTag PDF Report Writer Version 2.1

Thank you for your interest in **XPubTag Report Writer** for PDF, the ideal tool for platform-independent document production.

The **Report Writer** supports you through a simple-to-use and easy-to-understand TAG markup language for the production of PDF documents. Automatic page creation and text breaks as well as dynamic table building enable you to save time and effort.

The TAG language was developed specially for the production of PDF documents. It provides the layout options of Rich Text Format (RTF). Through this association with RTF it is possible to produce a document directly for other text processors such as Word, Open Office or in RTF controls, for example.

The following operating systems are supported:

- Win2000, WinXP, Win2003
- Linux
- Mac OS X
- Sun / Solaris

Report Writer is a component of the **X-Publisher** programs. **X-Publisher** is a software tool with which complex documents can be automatically created and managed according to specific rules. In **X-Publisher** documents are resolved into units and templates. The configuration – the determination of document contents and layout – is carried out entirely via graphic definition elements. **X-Publisher** can easily be tailored to existing databases or ones that have been created by you through the use of add-in modifications and it has various output media. The execution of a configured document can be either on the client or server side. The transmission of the results generated or status queries is carried out via SOAP.

X-Publisher has already been successfully employed in projects for data selection, the production of form letters and HTML page generation.

If you have any questions or would like to send us suggestions for additional features, please contact us on: projects@x-publisher.com.

The **X-Publisher** team

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About XPubTag Report Writer

XPubTag Report Writer supports both continuous as well as page-oriented document layouts. For continuous-oriented page layout the pages are inserted automatically or through the insertion of page breaks. For page-oriented layout the texts and pictures are set via freely positioned text boxes that can be linked. As the library allows the inclusion of documents that have already been produced, there are many diverse application possibilities. So for example, forms can be filled in or modified with text and pictures. Headers and footers as well as the freedom to set text boxes and comprehensive table functions also allow the definition of complex printouts through simple procedures.

The setting and formatting of texts and pictures takes place in the library with a TAG language. The TAGs define where and how text and pictures shall appear. In a subsequent step the texts, to which TAGs have been applied, are transferred in a program library to a PDF generation module. This module carries out the preparation of the document. A tool has been developed to make the handling and inclusion in the TAG language easier. This tool, **XPubTagUtility.exe**, can help you to learn the TAG language. The TAG utility can be downloaded from our web pages. For more details of the program library and generation module, please refer to the document "XPubTag Programmer Reference.doc".

The library does not have any prerequisites of Adobe Acrobat products. Depending on the platform and component, the entire functionality is contained in different libraries "XPubTagNet.dll" for .NET and "XPubTagCom.dll" for ActiveX and "XPubTagStd.dll" for Win32 DLL.

Handling and structure of the manual

There follow important items about the library and its management.

Syntax of the description of the TAG language

The TAG language commands with the parameters are listed in a dual column table. In the left hand column the complete command with its parameters are given. In the right hand column there is the description of the command and parameters.

| | |
|----------------------------------------------|------------------------------------------------|
| <keyword parameter="Value"> | Description of the command and its parameters. |
|----------------------------------------------|------------------------------------------------|

Omission of parameters in the TAG language

There is always a keyword directly after the "<" symbol. There follow the parameters with or without values. For the value specifications the following may be entered:

| | |
|----------------------|-------------------------------------------------------------------------------|
| Value, -value | Numeric value; negative value, if there is a minus sign in front of the value |
| Character | Any valid ASCII character |
| List | Selection of pre-defined constants and value or character |
| File name | Any desired character except: „,“ |

If in this document under the description there is a value in brackets behind the parameter, e.g. "permission(none)", then it means that this value is the standard value used if the parameter is omitted.

Measurements in the TAG language

All measurements specified in the library are in millimetres as a standard. The TAG "<metric" allows the measurement system to be changed.

Decimal values in measurements

As the library reserves the comma for the separation of values in parameter specifications, decimals are given using a dot.

For example:

The following example sets the cell border in a table to 0.15 mm.

```
<table rowcol="1,1" borderwidth="0.15,0.15,0.15,0.15">
```

Colour specifications in the Report Writer

The library supports the RGB colour scheme.

Control commands in the TAG language

TAG language reserves certain characters for the recognition of a command. Check in the following table which characters you have to enter in order to produce these characters.

| | | | | | | | |
|------------------|---|-------------------|---|-------------------|---|-------------------|---|
| &lt; | < | &#220; | Ü | &quot; | \ | &apos; | ' |
| &gt; | > | &#252; | ü | &#196; | Ä | &#246; | ö |
| &amp; | & | &#214; | Ö | &#228; | ä | &#223; | ß |

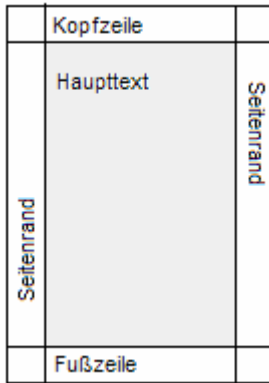
The program XPubTagUtility and examples of the TAG language

In the help program for the TAG language "XPubTagUtility.exe" there are examples for every chapter of the manual giving even more details of the options for the library. If you have any questions about specific examples or would like to send us suggestions for additional features or if you have uncovered a fault, please contact us. We are happy to give you information and to discuss individual functions and further developments with you.

Documents

A document consists of one or more pages. With the TAG language the text to be positioned is formatted and integrated into the document. If a text is positioned, the library automatically produces a document page. As a standard, this page is set to "A4" portrait format. Header and footer lines and page side margins are also produced and set to standard values. These settings can be changed using TAG commands.

A document has the following structure:



Special commands allow a switch between the main text and header or footer. In the individual parts of the document (header, footer, or main text) an imaginary insertion marker moves around. At the start of working the insertion marker is positioned in the main text. If now text or one of the TAGs is set, the insertion marker moves in accordance with the command. If the text goes beyond the end of the document, then a new page is automatically added to the document and the text that has not been positioned flows onto the new page. This page break is called *automatic page break*. A *manual page break* can be set using the "<pagebreak>" command.

Commands from TAG language such as **Specify document format** amongst other things, allow the settings described above to be changed. This makes it possible to output single pages in landscape format or to specify some pages to have a different page size.

For example:

```
<document format="Letter" orientation="landscape">
```

Hello World!

In this example the document is changed to the format "Letter" and the text "Hello World!" is written in landscape format. The margin settings, headers and footers are set to standard values.

For example:

```
<document format="Letter" orientation="landscape">
```

```
<margins left="10" top="10" right="10" bottom="10">
```

Hello World!

In the example above the document margins are set to 10 mm. Consequently the main text section has increased and more text can be placed on the page.

Specify document format

With this command the document size and format of the PDF document to be produced are specified.

| | |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre><document orientation="List" format="List", width="Value" height="Value"></pre> | <p>orientation:</p> <p>The values supported are "landscape" and "portrait".</p> <ul style="list-style-type: none">• landscape: <p>The constant switches the document into landscape format.</p> <ul style="list-style-type: none">• portrait: <p>Portrait is the default setting for document format.</p> <p>format:</p> <p>A constant can be selected from the following list of values:</p> <ul style="list-style-type: none">• Letter (default for American version)• Legal• Ledger• Tabloid• Statement• Executive• A3• A4 (default for European version)• A5 <p>E.g. format="A4"</p> <p>width:</p> <p>Specifies the page width in mm. This parameter is only used if no format parameter is specified.</p> <p>height:</p> <p>Specifies the page height in mm.</p> <p>Note:</p> <p>If the "format" parameter has been set, then the figures for page width and height are ignored.</p> |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Set page margins

With this command the page side margins of the PDF document to be produced are specified.

| | |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre><margins left="Value" top="Value" right="Value" bottom="Value"></pre> | <p>left:</p> <p>Sets the width of the left side margin in mm.</p> <p>top:</p> <p>Sets the width of the upper margin in mm.</p> <p>right:</p> <p>Sets the width of the right side margin in mm.</p> |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|--|-------------------------------------------------------------|
| | bottom: Sets the width of the lower margin in mm. |
|--|-------------------------------------------------------------|

Sections

Define sections

With this command sections (i.e. new document pages) are created for the PDF document to be produced.

A division into sections has the following advantages:

- Individual page layout (page margins, different headers and footers)
- Individual page format, for example, a large table can be integrated in landscape format.

| | |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><section numcols="Value" colspace="Value" pagenbr="Value"></code> | <p>numcols: Specifies the number of columns.</p> <p>colspace: Specifies the distance between the columns in mm.</p> <p>pagenbr: Specifies the number of the first page of the section.</p> |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Insert section

| | |
|-----------------------------------|---------------------------------------------------------------------------------------------------------|
| <code><sectionbreak></code> | <p>sectionbreak: With this TAG a break is forced to the next page with a section change.</p> |
|-----------------------------------|---------------------------------------------------------------------------------------------------------|

Change column in section

| | |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><columnbreak></code> | <p>columnbreak: With this TAG a break is forced into the next column. Columns can be configured with the <code><section...></code> command.</p> |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Text formatting

The formatting and control of the appearance of text takes place via a TAG markup language. A simple first example shows the general construction.

Example of a simple formatting:

```
<bold><font size="12">Formatting examples:</bold><p>
<tab><tab><bold>Bold</bold><p>
<tab><tab><underline>Underline</underline><p>
<tab><tab><double>Double underline</double><p>
<tab><tab><italic>Italic</italic><p>
<tab><tab><strike>Strike</strike><p>
<tab><tab>Colors:<p>
<tab><tab><tab><font color="red">Red</font><p>
<tab><tab><tab><font color="blue">Blue</font><p>
<tab><tab><tab><bold><font color="gray-40">Gray</font></bold><p>
<tab><tab><tab>usw. <p>
```

Result of the generation by the PDF renderer:

Formatierungsbeispiele:

Fett

Unterstrichen

Doppelt Unterstrichen

Kursiv

~~Durchgestrichen~~

Farben:

Rot

Blau

Grau

usw.

Font type

The pre-defined fonts in Acrobat as well as TrueType fonts are supported.

Set font type

The command formats the text that is contained between the begin TAG "<font " and the end TAG "</font ". After the end TAG the specifications apply that were set prior to the TAGs being set.

| | |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre></pre> | <p>name: The TrueType fonts of the operating system and those fonts pre-defined in Acrobat are supported.</p> <p>size: The font height in points is set.</p> <p>color: Here one of the pre-defined colors can be specified. By entering the keyword RGB any color desired can be assigned. E.g. </p> <p>codepage: The codepage describes in which language the font has been selected. The default value is "1252" for the Western codepage.</p> |
| <pre></pre> | <p>Sets the font attributes back to the values they had prior to being set with "<font".</p> |

The following pre-defined colors can be entered under "color": The **English** expressions are used.

| | | |
|------------------------|--------------------|-------------------|
| black = Schwarz | maroon = Dunkelrot | purple = Violett |
| silver = Hellgrau | green = Grün | navy = Blau |
| gray = Dunkelgrau | white = Weiß | red = Rot |
| fuchsia = Rosa | lime = Hellgrün | yellow = Gelb |
| blue = Hellblau | aqua = Türkis | gray-80 = Grau-80 |
| gray-50 = Grau-50 | gray-40 = Grau-40 | gray-25 = Grau-25 |
| gray-10 = Grau-10 | | |

Set font styles and font effects

| | |
|---------------------------|---------------------------------------------------------------------------------|
| <pre><bold></pre> | <p>bold: After the command, switches the font to bold.</p> |
| <pre></bold></pre> | <p>/bold: Switches back to the font set prior to "<bold>".</p> |
| <pre><italic></pre> | <p>italic: Italic</p> |

| | |
|---------------------------|---------------------------------------------------|
| </italic> | /italic: Switch off italic formatting. |
| <underline> | underline: Underline is switched on. |
| </underline> | /underline: Switches underline off. |
| <strike> | strike: Switches to strike out. |
| </strike> | /strike: Switches strike out off. |
| <double> | double: Switches to double underline. |
| </double> | /double: Switches double underline off. |

Paragraphs

A paragraph is created through the TAG "<p>". It corresponds to the character "¶" in Microsoft Word. The paragraph symbol encloses the text before the paragraph symbol back to the previous paragraph symbol into a unit. The insertion marker is moved to the next line in the document by the paragraph symbol.

With the help of format templates paragraphs can simply be set to a uniform layout format. A specific format template is applied to a paragraph with the command "<style select=".

Set line break

| | |
|-----|-------------------------------------------------------------------------------------------------------------------|
| <p> | p: The command causes a line change and encloses the text before the paragraph symbol into a paragraph. |
| < > | l: This TAG causes a line break within a paragraph. |

Set pagination

| | |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <par keepnext="Value" keep="Value" widow="Value" pagebreak="Value"> | keep: Prevents a page break within the lines of a paragraph. keepnext: Prevents a page break between the selected and the following paragraph. If this command is issued in the first cell of a table line, then it links the current table line to the following table line and therefore prevents a page break within the linked table lines. widow (orphan): Prevents the library from placing the last line of a paragraph at the top of the next page or the first line of a paragraph at the end of a page as the only single paragraph line. paragraph: Inserts a page break before the current paragraph. If the paragraph happens to be on a new page, then the page break is not executed. |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Set indentation and alignment

The following paragraph command works at paragraph level, i.e. all characters up to the next paragraph character "<p>" are formatted to the setting specified.

| | |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre><par left="Value" right="Value" ident="Value" align="List"></pre> | <p>left: Specifies the left distance to the page edge or cell edge in a table or text box in mm.</p> <p>right: Specifies the right distance to the page edge or object edge in mm.</p> <p>ident: Specifies the hanging indentation in mm. A negative value pulls the first line in.</p> <p>align: Specifies how the text in the paragraph is to be aligned. The following values are allowed:</p> <ul style="list-style-type: none">• left: Left aligned• right: Right aligned• center: Center aligned• justified: Block setting |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Tabulators

With the tabulators parts of text are aligned to certain positions in a document line. The command can be issued in table cells, text boxes, headers, footers or in the document text.

Set tabulator

The following tabulator settings are available:

| | |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <tab clear pos="Value" align="List"> | clear: Deletes all tabulator settings in the current paragraph. pos: Specifies the position of the tabulator in mm. align: Specifies the text alignment. <ul style="list-style-type: none">• left: Left aligned tabulator• right: Right aligned tabulator• center: Center aligned tabulator• decimal: Decimal aligned tabulator |
| <tab> | tab: Sets the tabulator to the next set position. If no regular tabulator is defined, then a standard tabulator is inserted. The standard tabulator position can be specified via <tabdef...> . |

Set standard tabulator

With this command the standard tabulator for the PDF document to be produced is set.

| | |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <tabdef decimal="List" pos="Value"> | decimal: Specifies in which position the decimal tabulator is to be placed. The specifications comma or dot may be given. <ul style="list-style-type: none">• comma: The decimal tabulator is aligned to the position of the comma.• dot: The decimal tabulator is aligned to the position of the dot. pos: Specifies the tabulator width of the simple tabulator " <tab> ". The figure is in mm. |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Example:

```
<bold>A few tabulators:</bold><p>
<tab clear><tab pos="12">Tab right<tab align="right" pos="80">123,45<p>
<tab clear><tab pos="12">Tab right <tab align="right" pos="80">23,45<p>
<tab clear><tab pos="12">Tab right <tab align="right" pos="80">1.893,45<p>
<p><bold>Decimal tabulator:</bold><p>
<tab clear><tab pos="12">Tab decimal<tab align="decimal" pos="80">21.345,451<p>
<tab clear><tab pos="12">Tab decimal <tab align="decimal" pos="80">1.345,52<p>
<p><bold>Center tabulator:</bold><p>
<tab clear><tab pos="12">Tab centered<tab align="center" pos="80">21.345,45<p>
<tab clear><tab pos="12">Tab centered <tab align="center" pos="80">1.345,451<p>
<p>
```

Result:

Ein paar Tabulatoren:

| | |
|------------|----------|
| Tab rechts | 123,45 |
| Tab rechts | 23,45 |
| Tab rechts | 1.893,45 |

Dezimaler Tabulator:

| | |
|-------------|------------|
| Tab dezimal | 21.345,451 |
| Tab dezimal | 1.345,52 |

zentrierter Tabulator:

| | |
|---------------|-----------|
| Tab zentriert | 21.345,45 |
| Tab zentriert | 1.345,451 |

Format templates

Format templates allow the combining of format commands (text attributes) into a larger unit. This unit can then be applied to paragraphs with the command “<style select=”. Text formatted in this way does not get a copy of the settings through this, but instead a reference to the format template. **The format templates decouple content and format.** Text format changes are thus easier to carry out.

Define format template

| | |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre><style name="Character" type="Character" nextstyle="Character" basedon="Character"></pre> | <p>name: Specifies the name of the format template. After the TAG “< style name=” there follows the list of settings caused by the commands for paragraph control. See the example below. The library in its basic state is set to standard values. These standard values can be overwritten using “<style name='normal'”.</p> <p>type: Specifies the format type. Possible settings are:</p> <ul style="list-style-type: none"> • Parameter • Character <p>nextstyle: Specifies with which style the next paragraph is to begin. If this parameter is not set then the settings of the previous paragraph are taken over in their entirety (“same style”).</p> <p>basedon: An existing format template style can be specified as a pre-setting for the style to be used.</p> |
| <pre></style></pre> | <p>Defines the area within which the listing of the paragraph commands to be set shall apply.</p> |
| <pre><style select="Character"></pre> | <p>select: With this a defined format template is employed. The specification of “<style select='Normal'>” selects the standard settings.</p> |

Example:

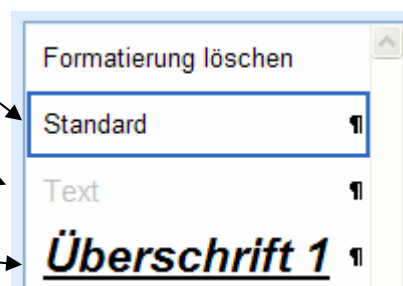
```
<style name="Normal">
  <font size="10" name="Arial">
  <par align="left">
</style>

<style name="Text">
  <font size="11" name="Arial" color="silver">
  <tab pos="50">
</style>

<style name="heading 1">
  <bold><italic><underline>
```

Result:

The format templates created in this way can be used with the command “<style select=“>”. In Word the format templates are listed in the format template list, as shown here.



<tab pos="50">

</style>

Tables

Tables permit the structured listing of texts and pictures. The library supports tables, multiple nesting of tables, header repetition, the joining of table rows even in the case of page breaks, etc. Settings allow simple structuring, also of multi-page complex tables.

Row and column control

A cell in a table is addressed with the command "rowcol='Row,Column'" (for more details see Activate table cells). Specify the first cell in the table via "rowcol='1,1'".

Special cases:

Row and column and value 0

If either the row or column is specified with the value "0", then the specification for the following formatting commands refers to all rows or columns of the table respectively. This value therefore serves to give area specifications and means as much as: select the cells and apply the following command to all these cells.

Rows and value -1

If in a table a new row is added with the "<table addrow >" command, then in a subsequent table command the table row just added can be addressed with "-1".

Table create

| | |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><table create="Rows,columns"></code> | <p>create:</p> <p>The command creates a new table. The insertion marker is located in the cell "rowcol="1,1"". </p> <p>If the command is used in the cell of an existing table, then a new table is inserted in the cell. The insertion marker is automatically located in the inserted table. The cell positioning within the inserted table occurs with "rowcol", the same as in the superior table. The command </table> moves the insertion marker out of the inserted table.</p> |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The following command creates a table with 3 rows and 5 columns. Then it sets a table border.

Example:

```
<table create="3,5">
```

```
<table rowcol="0,0" borderwidth=".10,.10,.10,.10">
```

Result:

| | | | | |
|--|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |

Activate table cells

| | |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><table rowcol="Row,column"></code> | rowcol: Activates the selected cell of the currently active table. The insertion marker is placed at the end of the cell. See also Row and column control in the table. |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Table add row

| | |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><table addrow></code> | addrow: The command adds a new row to the currently active table. The new row has the same formatting as the last row of the table. The formats of the cell frames of the previous table row are adopted. Note: No further parameters must follow this parameter. The following is not allowed: <code><table addrow keeprow></code> |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Table add new cell

| | |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><table addcell></code> | addcell The command adds a new cell to the currently active table. This command must not be issued with other commands. The following is not allowed: <code><table addcell keeprow></code> |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Rotate table cell

| | |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><table rowcol="Row,column" rotate="List"></code> | rotate: Rotates the contents of the table cell. The following settings are permitted: <ul style="list-style-type: none">• horizontal: Displays the contents of the table row horizontally.• bottomtop: The text in the table cell is displayed from bottom to top.• topbottom: The text in the table cell is displayed from top to bottom. |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Specify row height

| | |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <table rowheight="Value"> | rowheight: Specifies the minimum row height in mm of the currently active table row. With "rowcol='0,0'" the row height of all rows in the table can be assigned. |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Specify cell width

| | |
|----------------------------------------|-----------------------------------------------------------------------------------------|
| <table cellwidth="Value"> | cellwidth: Specifies the cell width in mm of the currently active table cell. |
|----------------------------------------|-----------------------------------------------------------------------------------------|

The following example creates a table with 4 cells and a row and specifies the first cell to be 50 mm in size.

Example:

```
<table create="2,4">
```

```
<table rowcol="0,0" borderwidth=".10,.10,.10,.10">
```

```
<table rowcol="1,1" cellwidth="50">
```

```
<table rowcol="1,2" cellwidth="25">
```

```
<table rowcol="1,3" cellwidth="50">
```

```
<table rowcol="1,4" cellwidth="25">
```

```
<table rowcol="2,1" cellwidth="50">
```

```
<table rowcol="2,2" cellwidth="25">
```

```
<table rowcol="2,3" cellwidth="50">
```

```
<table rowcol="2,4" cellwidth="25">
```

Result:

| | | | |
|--|--|--|--|
| | | | |
| | | | |

Specify cell spacing

| | |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <table cellmargin="Left, top, right, bottom"> | cellmargin: Specifies the distance between the text and the cell edge within a cell in mm. |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------|

Specify cell border width, cell border color and table border color

| | |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><table borderwidth=" Left, top, right, bottom"></code> | borderwidth: The thickness of the table border in mm can be specified with the left, top, right and bottom values. Minus 1 (-1) in a specification means that the cell border should not be changed. |
| <code><table bordercolor="List"></code> | bordercolor: Specifies the border color of the cell or the entire table. |

Delete table cell

| | |
|-----------------------------------|------------------------------------------------------------------------------|
| <code><table delete></code> | delete: This command deletes the currently active cell in a table. |
|-----------------------------------|------------------------------------------------------------------------------|

Example:

The following example deletes the cell 1,3. The cell is removed and the following cells are all shifted forward.

```
<table create="2,5">
<table rowcol="0,0" borderwidth=".10,.10,.10,.10">
```

```
<table rowcol="1,1">1,1
<table rowcol="1,2">1,2
<table rowcol="1,3">1,3
<table rowcol="1,4">1,4
<table rowcol="1,5">1,5
```

```
<table rowcol="2,1">2,1
<table rowcol="2,2">2,2
<table rowcol="2,3">2,3
<table rowcol="2,4">2,4
<table rowcol="2,5">2,5
```

```
<table rowcol="1,3" delete>
```

Before deletion:

| | | | | |
|-----|-----|-----|-----|-----|
| 1,1 | 1,2 | 1,3 | 1,4 | 1,5 |
| 2,1 | 2,2 | 2,3 | 2,4 | 2,5 |

After deletion:

| | | | | |
|-----|-----|-----|-----|-----|
| 1,1 | 1,2 | 1,4 | 1,5 | |
| 2,1 | 2,2 | 2,3 | 2,4 | 2,5 |

Skip table cell

| | |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><table rowcol="Skip,skip"></code> | <p>skip(column): Places the insertion marker in the next table cell.</p> <p>skip(row): Places the insertion marker in the next table row.</p> |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Specify table start position

| | |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <code><table rowposition="Value"></code> | <p>rowposition: With this command the start position of the table from the left edge of the page in mm can be specified.</p> |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|

Keep table row together

| | |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><table rowcol="1,0" keeprow></code> | <p>keeprow: Causes a table row to be not separated when there is a page change. The standard setting is that a row is split when there is a page change.</p> |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Specify table header

| | |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><table rowcol="Row,column" header></code> | <p>header: This command determines that the table row specified will be repeated on the following page if there is a page break. Several rows may be specified.</p> |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Specify cell color or table color

| | |
|---------------------------------------------|------------------------------------------------------------------------------------------|
| <code><table cellcolor="List"></code> | <p>cellcolor: Specifies the background color of the active cell or table.</p> |
|---------------------------------------------|------------------------------------------------------------------------------------------|

Align cell contents vertically

| | |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><table valign="List"></code> | <p>valign: Aligns the cell contents. Possible values are:</p> <ul style="list-style-type: none"> • top: Text is aligned vertically at the top as a standard. • middle: Text is aligned vertically in the center. • bottom: Text is aligned vertically at the bottom. |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Specify cell graphic and table graphic

| | |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><table bgimage="Filename"></code> | bgimage: Here the file name of the graphic file is specified. The graphic can be specified as background for a cell or for the entire table by entering "rowcol='0,0'". All the usual graphic types are supported. |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Exit table

| | |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code></table></code> | </table>: Places the cursor behind the active table, so that input can continue outside the table range or in table rows for an integrated table. |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Graphics

The command inserts graphics into the PDF document to be produced. The formats PNG and JPG are directly supported. With the help of the "shrink" parameter, BMP, PCX and GIF graphic files can be inserted into the document. Prior to insertion, the graphics are converted to JPG files.

Embed graphic

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre><image name="File name" thumbnail="Value" width="Value" height="Value" zoom="Value" shrink="True/False" dpi="Value"></pre> | <p>name: Here the file name together with path can be specified.</p> <p>thumbnail: If this constant is set, then the graphic is reduced in size to the size specified by zoom, and it is given a border.</p> <p>width: Here the width of the graphic can be specified in mm.</p> <p>height: Here the height of the graphic can be specified in mm. If the height or width is not specified, then the other value is automatically calculated in the correct proportion to the page size.</p> <p>zoom: Here the zoom factor for the graphic can be specified. The graphic is reduced to this size.</p> <p>shrink: Here can be specified whether a reduction of the graphic file should be carried out or not. Possible values are "True" or "False". Upon reduction the resolution of the graphic file is converted to 96dpi. In the PDF, PNG or JPG are supported. If you set the shrink parameter to True, then BMP, PCX and GIF graphic files can be inserted. The setting of the parameter causes these files to be converted to PNG prior to insertion.</p> <p>dpi: Here the resolution for the shrink parameter can be specified, if a resolution other than 96dpi is desired.</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Text boxes

Text boxes are text areas that can be freely defined. Text boxes can accept tables and graphics. Thanks to the linking option for text boxes, it is possible to realise very easily the flow-around and multi-column appearance of documents.

Define text boxes

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre><textframe name="Character" left="Value" top="Value" width="Value" height="Value" borderwidth="Value" bordercolor="Character" bgcolor="Character" join="Character" ypos="List" wrap="List" valign="List" columns="Value" colwidth="Value" gutter="Value" rotate="List"></pre> | <p>name:</p> <p>The name of the text box is for the subsequent identification of the text box. If two text boxes are joined together then the name is specified under the "join" parameter.</p> <p>left:</p> <p>Specifies the left position of the text box in mm. The figure refers to the margin or the paragraph, depending on how the ypos parameter has been set.</p> <p>top:</p> <p>Specifies the upper position of the text box in mm. The figure refers to the upper page edge or margin or the paragraph, depending on how the ypos parameter has been set.</p> <p>width:</p> <p>Specifies the width of the text box in mm.</p> <p>height:</p> <p>Specifies the height of the text boxes in mm. If the height is omitted, then the text box is automatically enlarged until the entered text appears in full.</p> <p>borderwidth:</p> <p>Specifies the border width of the text box in mm. The standard value for border width is "0.0".</p> <p>bordercolor:</p> <p>Specifies the border color of the text box. RGB values can be entered, e.g. "RGB(12,12,12)" or one of the pre-defined colors may be set.</p> <p>bgcolor:</p> <p>Specifies the background color of the text box. If this parameter is omitted or set to -1, the text box is filled transparently.</p> <p>join:</p> <p>Allows a predecessor to be specified. Through this</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

specification the text box specified is joined to the text box defined here and text can automatically overflow.

ypos:

Specifies the relative Y-position in mm. The following values are allowed:

- **margin:**
The text box is relative to the margin.
- **page:**
The text box is relative to the page.
- **paragraph:**
The text box is relative to the previous paragraph of the main document.

wrap:

If two or more text boxes overlap, then the action of the text can be defined here.

- **nowrap:**
The text does not flow around an overlapping text box.
- **around:**
If several text boxes overlap each other, then an output text flows around the other text boxes.

valign:

Here the vertical alignment of the text in the text box can be specified.

- **top:**
The text is aligned vertically at the top. This is the standard setting for text boxes.
- **middle:**
The text is aligned vertically in the center of the text box.
- **bottom:**
The text is aligned vertically at the bottom of the text box.

columns:

Specifies the number of text columns in the text box.

colwidth:

Specifies the width of the text columns.

gutter:

Specifies the spacing between the text columns to each other in mm.

| | |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>rotate:</p> <p>Allows the rotation of a text box. The point of rotation is the left lower corner. One of the following constants or any number of degrees desired may be specified:</p> <ul style="list-style-type: none"> • horizontal: The text box is placed horizontally. • bottomtop: The output direction corresponds to a specification of 270°. • topbottom: The output direction corresponds to a specification of 90°. |
| </textframe> | Switches back to the standard text. |

Shapes

With this command different kinds of shapes, such as lines, can be inserted into the PDF document to be produced.

Draw lines

| | |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre><line x1="Value" y1="Value" x2="Value" y2="Value" color="List" width="Value"></pre> | <p>x1: Here the start coordinate on the x-axis can be specified in mm.</p> <p>y1: Here the start coordinate on the y-axis can be specified in mm.</p> <p>x2: Here the end coordinate on the x-axis can be specified in mm.</p> <p>y2: Here the end coordinate on the y-axis can be specified in mm.</p> <p>color: Here the color of the line can be specified.</p> <p>width: Here the line width can be specified in mm.</p> |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

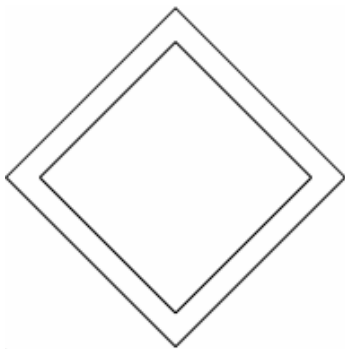
Example:

```
<line y1="0" y2="25" x1="25" x2="50" color="black"> <line y1="25" y2="50" x1="50" x2="25"
color="black">
```

```
<line y1="50" y2="25" x1="25" x2="0" color="black"> <line y1="25" y2="0" x1="0" x2="25"
color="black">
```

```
<line y1="5" y2="25" x1="25" x2="45" color="black"> <line y1="25" y2="45" x1="45" x2="25"
color="black">
```

```
<line y1="45" y2="25" x1="25" x2="5" color="black"> <line y1="25" y2="5" x1="5" x2="25"
color="black">
```



Forms

Form fields allow the interactive use of PDF documents. The library supports the filling in of form fields. The filled in form fields are integrated into the document and saved along with it.

The library works independently and does not need any Acrobat product to provide this function.

Fill form fields

| | |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre><formfield name="Character" value="Value" fontname="Character" fontsize="Value" codepage="Value"></pre> | <p>name: The name of the form field to which the following parameters are assigned.</p> <p>value: Here the value that appears as a standard in the relevant form field when the PDF document is opened can be specified.</p> <p>fontname: If the parameter is omitted, then the font as set in the form field will be used.</p> <p>fontsize: Specifies the font size in which the contents of the form field shall appear.</p> <p>codepage: The codepage specifies in which language the font is selected. The standard value is "1252" for the Western codepage.</p> |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Levels

With this command levels are inserted into the PDF document. Levels can accept any desired texts, tables, graphics or templates. On viewing the PDF document produced, the reader can make visible or hide individual levels from the PDF document.

Create levels

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre><layer name="Character" intent="List" defstate="List" group="Character" parent="Character" locked="List" visible="List" print="List" export="List"></pre> | <p>name: Specifies the name of the level. The name appears in the list of levels in Acrobat.</p> <p>intent: Here can be specified whether the level shall appear as reference or standard level after the PDF document has been produced.</p> <ul style="list-style-type: none">• reference: With this parameter can be specified whether the level appears as reference (i.e. the level is always visible). Subsequent options are therefore ignored.• view: With this parameter (which is set as standard) can be specified whether the level is made visible or hidden. Subsequent options are therefore accepted. <p>defstate: Here can be specified whether the level can be changed or not as a standard measure.</p> <ul style="list-style-type: none">• on: The level can be changed.• off: The level cannot be changed. <p>group: Here can be specified whether the level is assigned to a group. If several levels are assigned to a group, then only one of these can ever be visible at a time.</p> <p>parent: The parameter takes the name of an other level and so allows the level to be made subordinate to this one.</p> <p>locked: Allows a level to be locked.</p> <ul style="list-style-type: none">• on: With this parameter single levels can be changed after opening the PDF document.• off: |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

With this parameter single levels can no longer be changed after opening the PDF document.

visible:

Specifies whether the levels can be displayed or not, and if so then when.

- **always:**

With this parameter the relevant level is always displayed.

- **never:**

With this parameter the relevant level is never displayed.

- **whenon:**

With this parameter the relevant level is only displayed if the defstate is set to on.

print:

Specifies whether the levels can be printed or not, and if so then when.

- **always:**

With this parameter the relevant level can always be printed.

- **never:**

With this parameter the relevant level can never be printed.

- **whenon:**

With this parameter the relevant level can only printed if the defstate is set to on.

export:

Specifies whether the levels can be exported or not, and if so then when.

- **always:**

With this parameter the relevant level can always be exported.

- **never:**

With this parameter the relevant level can never be exported.

- **whenon:**

With this parameter the relevant level can only exported if the defstate is set to on.

Bookmarks

References allow the placement of bookmarks at locations in a PDF document. They speed up the search for particular texts.

Bookmarks

With this command bookmarks can be inserted into a PDF document to be produced.

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre><bookmark name="Character" level="Value" anchor="Character" zoom="Value" color="Character" format="List", ignore="True/False" ></pre> | <p>name: Enter the name of the bookmark here.</p> <p>level: Here the level of the bookmark can be specified, e.g. "1.1". If nothing is specified here, then all bookmarks are entered in the order of definition.</p> <p>anchor: Here a reference to an anchor can be specified. An anchor is a reference to a text position within the document. With the help of the "<anchor>" TAG text locations in the PDF document can be defined and skipped to.</p> <p>zoom: Here can be specified with which zoom factor the page called up should be presented.</p> <p>color: Here the font color of the bookmark can be specified.</p> <p>ignore: Here can be specified whether the current line position should be taken into account. If the parameter is not specified, then the active page is set as position definition.</p> <p>format: Here can be specified how the bookmark should look.</p> <ul style="list-style-type: none">• bold: With "bold" the bookmark is written in bold font.• italic With "italic" the bookmark is written in italic font.• both: With "both" the bookmark is written in both bold and italic font. |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

References

Defines an area of text that refers to another section of text or to an external document on the web.

| | |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><reference name="File name" anchor="Character" pagenbr="Value" zoom="Value" ></p> | <p>name: File or URL address that is to be called up. If the parameter is omitted, then the parameter "anchor" can be used to refer to a text location in the document being created.</p> <p>anchor: An anchor is a reference to a text location in the document to be created. For the definition of an anchor a name is provided. This name is entered here for the "anchor" parameter in the reference.</p> <p>pagenbr: Specifies the page to skip to. Skip specifications within a page are given with "<anchor>".</p> <p>zoom: Zoom specifies the zoom factor for the document called up. This specification is evaluated if under "name" an external PDF file is skipped to.</p> |
| <p></reference></p> | <p>Ends the reference command.</p> |

Specify anchor

Anchors serve to mark text locations. The name of the anchor is used for "bookmark" or "reference" in the "anchor" parameter and thus allows a direct skip to these document locations.

| | |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><anchor name="Value"></p> | <p>name: The name is employed for references and bookmarks to determine positions. If the same name is issued several times, then only the most recently defined name is valid.</p> |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Page control

The area of document to be printed on is divided up into the following fields: header, footer and print area. The following commands allow a switchover into the individual areas. In the print area, the "<argins> ..." command can also be used to further subdivide the area to be printed on.

Specify header and footer areas

| | |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <header> and </header> | header: Switches to the header area to allow text to be entered into it. /header: Switches back to the main text area. |
| <header top="Value"> | top: With this command you can specify the distance between the header and the top edge of the page. |
| <footer> and </footer> | footer: Switches to the footer area to allow text to be entered into it. /footer: Switches back to the main text area. |
| <footer bottom="Value"> | bottom: With this command you can specify the distance between the footer and the bottom edge of the page in mm. Mit diesem Befehl können Sie den Abstand des Kopfes zum unterem Blattrand in Millimetern festlegen. |

Insert page counter

With this command page counters can be inserted into the PDF document to be produced. The page counters are automatically filled with current values.

| | |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pagenbr> | pagenbr: Here a page counter can be integrated into your PDF document. It provides the current page number for every page of the document. |
| <pagenbrs> | pagenbrs: Here a counter can be integrated into your PDF document. It provides the total number of document pages on every page. |

Execute page break

| | |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pagebreak> | pagebreak: The command inserts a page break. Any existing <nopagebreak> is removed. The difference between section break and page break: Both types of break insert a new page. However, if after a section break the current page is changed in document size or the margins, then the change applies only to the newly inserted page. |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Holding text areas together

The output text contained in this command pair is held together (bracketed). If within the text bracket an automatic page break occurs, then the start bracket "**<nopagebreak>**" is looked for and replaced by a page break. The insertion marker is then placed at the end of the document.

| | |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| <nopagebreak> | nopagebreak: Defines the start of a text bracket within which no page break must occur. |
| </nopagebreak> | </nopagebreak> Identifies the end of the text bracket. |

Note:

A start bracket is searched for on the current and previous pages. If there is no bracket then no page break is inserted. If the text of the text bracket is already on a new page then here too no page break is issued.

Set body position

With this command the position of the cursor can be set to a desired position in a loaded PDF document.

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <pagebody pos="Value"> | pos: With this command can be specified where the body is to start on the y-axis of the document. |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------|

Templates

Templates are already laid out PDF documents. These documents can be inserted into a target document that is to be produced and supplemented with additional text.

Load PDF documents

The command allows the loading of already produced PDF documents. If a loaded PDF document consists of several pages, then individual pages within the loaded document can be switched to with the “<pagebreak>” command. Then text may be added to each page. Furthermore the command “<textframe” allows the positioning of additional text to the nearest mm on each single PDF page.

| | |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre><template name="File name" mode="List" masterpwd="Character" userpwd="Character"></pre> | <p>name: File name with extension and path of an existing PDF document. If no path is entered then the document is searched for in the current directory. With the command “searchpath” further directories to search through can be specified.</p> <p>mode: Specifies how the document shall be inserted into the target document. The following settings are allowed:</p> <ul style="list-style-type: none">• repeat: The inserted PDF document is repeated on every page of the current section of the target document.• append: Loads the PDF document behind the already loaded templates (PDF documents). If no document is loaded yet, then the document is placed on the first page. <p>masterpwd: Allows access to open the PDF document to be loaded.</p> <p>userpwd: Allows access to the PDF document to be loaded.</p> |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Fill page break

If templates (PDF documents) are loaded into a document then the insertion marker does not automatically shift to the final page of the loaded template. If more pages need to be added at the end of the document for further writing however, then the “fillpagebreak” command can be used to fill the document with page breaks.

| | |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <pre><fillpagebreak></pre> | <p>fillpagebreak: With this command page breaks are automatically inserted up to the last loaded template page.</p> |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|

Miscellaneous

Enter document information

With this the document properties of the PDF document are set. Creation date and modification date are automatically set by the system and cannot be changed.

| | |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code><information title="Character" subject="Character" author="Character" keywords="Character"></code> | <p>title: Sets the title in the document description.</p> <p>subject: Sets the subject in the document description.</p> <p>author: Sets the author in the document description.</p> <p>keywords: Sets the keywords in the document description. Several keywords can be entered, separated by semicolons.</p> |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Search sequence for templates and graphics

The library allows the integration of graphics and already defined PDF documents. These files are integrated via the TAG language, e.g. "`<image ...`". If during the generation process the file specified cannot be found in the current directory then the directories stated under **searchpath** are used to continue the search.

| | |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <code><searchpath names="Path;path"></code> | <p>names: Here additional paths for the search for PDF documents and graphics can be specified.</p> |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|

Comment lines in TAG language

With this TAG comments can be added to the formatting stream. The text in brackets does not appear in the target document.

`<!Any desired text...>`

Document protection

Provides 128 bit document protection for the PDF document.

Specify password

With this command a password is set for the PDF document to be produced. The password protects the PDF document against access to its contents and modification.

| | |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre><password master="Character" user="Character" permission="Value"></pre> | <p>master: Here the password to open the target document can be specified.</p> <p>user: Defines the user authorisation password. Individual authorisations can be issued via the "permission" parameter. If the "permission" parameter is not set, then all options are not allowed.</p> <p>permission:</p> <ul style="list-style-type: none">• annotation Adding comments, filling in and signing form fields• assemble Document construction• copy Copying and removal of contents• extract Access to content activated• form Filling in and signing form fields• modify Document construction, document modification• printlow Low resolution 150dpi• printhigh High resolution |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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