

# **Manual**

# for Contao 5 extension "contao-pdfforms-bundle"

This Contao extension from Softleister extends the form generator with the option of filling out, saving and sending a PDF template with the data entered in the online form.

The **contao-pdfforms-bundle** extension is installed as a limited demo. The demo version prints a demo note in the PDF with full functionality and is limited to 2 output pages.

The full functionality is activated with a licence key. The licence allows you to use the extension in the domain specified at the time of purchase. Use in other domains requires an additional licence.

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# 1. System Requirements

The extension is released for Contao 5 from version 5.3. The Composer or the Contao Manager is required for the installation.

### 2. Interaction with other extensions

With the following extensions further features are available:

notification\_center <u>terminal42/notification\_center</u>

**contao-pdfforms-bundle** sends via the normal "Contao Form Generator Submissions". The generated file can be attached to the mail using a token.



### 3. Installation

Simply install the extension with the Contao Manager, search for

PDF form output

or

do-while/contao-pdfforms-bundle

or on the command line with the **Composer**:

composer require do-while/contao-pdfforms-bundle

You can first install the extension as a demo and check its suitability for your project. The demo has all the features, but is limited to 2 output pages. Before you go online, you will need your licence code:

www.softleister.de/kontakt/anfrage.html?erw=pdfforms

Enter the licence code in the .env.local file in the base directory of the Contao installation. This is described in more detail in your licence document, which you will receive after purchasing the licence.

# 4. Advanced form properties

After the installation, more functions are available in the properties of the form generator:

In the section *Fill PDF form*, you can turn on the creation of a PDF file.

☑ Fill PDF form Filling out a PDF template  PDF template file*	Further processing
illes/softleister/vorlagen/sl-vorlage.pdf (53.7 KiB)	Save PDF file and attach it to the email
Change selection	What will happen next with the PDF
Directory for storing illes/softleister/pdfforms	✓ Save in home directory If the member is logged in, the PDF should be saved in their private directory
Change selection	if the member is logged in, the FDF should be saved in their private directory
Please select the directory where the PDF files should be saved. The directory	
Please select the directory where the PDF files should be saved. The directory  Expand file name	

You provide a **PDF template file** containing the unfilled form. Please note that the PDF specification 1.4 (Acrobat 5.x) must be available; you may have to save the template in an older PDF format.

The PDF template is filled in and saved as a copy with the online entries. The page sizes of the template pages are adopted.

You can specify under **Further processing** that the generated file should be included as an e-mail attachment in the form e-mail.

To save the PDF files, specify a **directory for saving**. The generated, completed PDFs are saved here. You can use the "Save in home directory" checkbox to ensure that the PDF is saved there for logged-in users who have their own home directory. If



there is no home directory or the sender is not logged in, the normal specified directory is used for saving.

The file name consists of the form name and a timestamp; you can customise the structure of the file name in the **Expand file name** field. The default entry appends the current date and time. The use of InsertTags is possible.

It is possible to manage **multi-form templates** in one template PDF. For this purpose, all possible output pages are listed one after the other in the template PDF. By specifying the controlling fields as a condition, the output can be restricted to certain pages.

Condition(?)		Pages from the PDF template(?)	
tariff~A	▼	1-3, 7	0+++×
tariff~B		4-6, 7	0+++×
Take all valid docu			
Applies also template pag	es without position entries		
Applies also template pag		text color in PDF	
Applies also template pag Basic offset	es without position entries	text color in PDF  2012a3	ill in the entries
Applies also template pag Basic offset 0 K and Y displacement in n	es without position entries	text color in PDF  2012a3	ill in the entries
Applies also template pag Basic offset	es without position entries  -4.8  nillimeters of all positions or	text color in PDF  2012a3  The sides.  Please select the pen color to	ill in the entries

In the example, there is a radio button element where you can select tariff A or B. Depending on the selection in the form, only the specified pages are output, so pages 1, 2, 3 and 7 are output for tariff A, and pages 4, 5, 6 and 7 for tariff B (the page numbers always refer to the template). Further conditions can also be used to control attachments.

If you leave the Multiple templates element completely empty, the complete template PDF will be used.

Use **Take all valid document pages** to control whether all template pages should be transferred to the PDF or only the pages on which valid items are entered. This allows you to create optional pages using the template. If a single blank page (e.g. terms and conditions) is nevertheless included, enter a position that prints a blank. For multiple templates, "All pages" only refers to the pages of the template released via the conditions.

When you measure the form and enter the positions, there are often differences to the paper margin. This shift then applies to all items in the PDF. To avoid having to adjust every position, you can simply equalise the **basic offset** by making an entry in the form properties.

For the display, you can enter the **text colour in the PDF** and the **title** and **author** for the file properties.

The text colour can be overwritten individually in the individual items, e.g. to set off a heading in colour.



It is possible to protect the generated PDF with a password. There are 2 ways:

PDF password for permissions	PDF password for opening
If this field is left blank, a random password is generated   Permissions	Leave the field blank if open without a password should be possible.

- a) Restriction of authorisations, enter all released authorisations here. If the PDF password for authorisations is left blank, a random password is generated. The password is then unknown.
- b) Password protection when opening the document You can enter a password here to prevent unauthorised opening of the PDF. For security reasons, send the password in a separate email or via SMS or a suitable messenger.

Note: The PDF protection is not completely secure. With appropriate programs, the password can be bypassed!

#### Use your own fonts:



TTF or OTF fonts can be assigned for each of the 4 possible font styles (regular, bold, italic, bold+italic) in the PDF positions. Where no font is selected, the default font remains.

It is also possible to assign different fonts to font styles. For example, a decorative font for special effects can be assigned to the bold+italic font style to highlight special entries.



## 5. Definition of positions in the PDF

There is an additional icon (a PDF symbol) in the overview of the created forms. The positions of the entries in the template PDF are defined in the following table. Any number of items can be created.



It is possible to generate a completed **test PDF** directly in the backend. This allows you to quickly check whether all items are filled in correctly in the form. All published items are output, and the field name is displayed for form fields.

As no input data is available, the conditions are not checked, all fields and all pages are transferred to the test PDF.

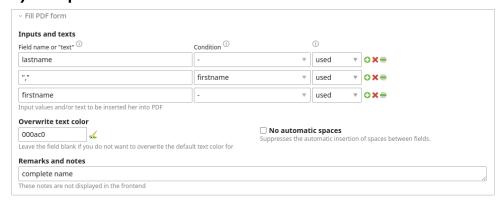


There are different types of positions:

- Text position: Output of form content, texts and insert tags
- Picture position: Output of image data
- Barcode: Output of a barcode from form content, text, InsertTags

### Creating the individual items:

### a) Text positions



The information to be entered is set in the first section. The following options are available:

- a field name from the form
- a fixed text in quotation marks
- InsertTags must also be set in quotation marks

In the example, these are the form fields lastname and firstname and a fixed text with a comma. These individual definition lines are strung together with spaces (no space before a comma). If the **automatic space** character is annoying in rare situations, you can switch it off.



A condition can be programmed for the output in the 2nd column. If the condition is empty, the position is always output. In the example, the comma depends on whether the firstname field in the form has been filled in (used). The comma is therefore only output if the firstname has been filled in.

The condition can also be inverted:

used = field filled in / checkbox or radio button selected

empty = field is empty / checkbox or radio button not selected

The fixed texts can also contain insert tags:

Fill PDF form				
nputs and texts				
Field name or "text" (?)	Condition (?)		(?)	
city	city	₩	used •	0+++×
", "	city	₩.	used •	0+++
"{{date::Y-m-d}}"	-	₩	used •	0+++

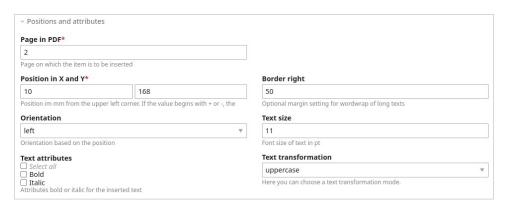
In this example, "Berlin, 2018-02-04" or only "2018-02-04" entered in the PDF, depending on whether **city** is specified or not.

To cross check boxes, we use an "X" with the checkbox value in the condition:



In the **Remarks and notes** line, you can save notes on the position, for example for checkboxes or radio buttons where only an "X" is displayed, the option can be described here for the backend view.

In the lower part of the backend form it comes to the position in the PDF where the selected information is entered and the font attributes.



The **position** consists of the PDF page (refers to the page in the template), the horizontal distance from the left margin and the vertical distance from the top margin. Optionally, a right margin can also be entered. This is often useful for form fields of



the textarea type, where the line text should wrap. Depending on the font used, there may be a constant shift due to over- and descenders in the font.

A good way to determine the positions is to measure the PDF page in programs such as Photoshop. The offset can be quickly determined in a position test and included in the other positions.

Note: The positions always refer to the basic offset in the form properties

If a position specification begins with + or -, then the position is placed **relative** to the previous position. For example, the Y position "+5" can be used to set the output to 5 mm below the last output position.

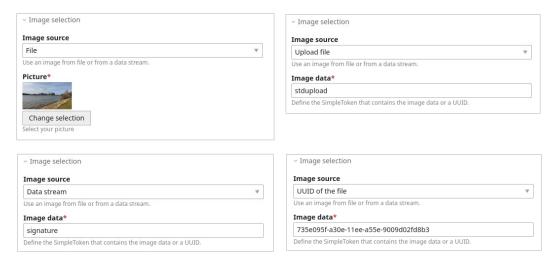
### b) Picture position

There are 4 options for integrating images into the PDF:

- Select an image from the file manager
- Take an image from the upload, i.e. from the form
- An image that is contained in the form data as a DataStream (e.g. from the signature extension <u>do-while/contao-signature-formfield-bundle</u>)
- Include an image via the UUID of the file



The page, position and size are specified for all image positions. The image is always cropped to the specified dimensions (MODE\_CROP = Exact format). It is also possible to specify a condition for inclusion, the image is then only included if the condition is met. For example, images can be integrated to match a selection field.





### c) Barcode

Include a barcode from your data in the PDF:

v Type of position		
Type of position		Barcode type
Bar code	₩	QR-CODE - Better error correction  ▼
Select the type of position		Select a barcode type
∨ Fill PDF form		
Inputs and texts		
Field name or "text" (1)	Condition (i)	0
"{{custom::partnumber}}	-	▼ used ▼ OX=
Input values and/or text to be inserted her into PDF		
Overwrite text color  111666  Leave the field blank if you do not want to overwrite the def	fault text color for this	☐ No automatic spaces Suppresses the automatic insertion of spaces between fields.
Remarks and notes		
Part number from insert tag		
These notes are not displayed in the frontend		

### The following barcode types are available:

(depending on the type, the character set is partially restricted)

#### 2D bar codes

- QR-CODE Low error correction
- QR-CODE Medium error correction
- QR-CODE Better error correction
- QR-CODE Best error correction
- PDF417 (ISO/IEC 15438:2006)
- Datamatrix (ISO/IEC 16022:2006)

#### 1D bar codes

- Code 39 ANSI MH10.8M-1983 USD-3 3 of 9
- Code 39 + Checksum
- Code 39 Extended
- Code 39 Extended + Checksum
- Code 93 USS-93
- Standard 2 of 5
- Standard 2 of 5 + Checksum
- Interleaved 2 of 5
- Interleaved 2 of 5 + Checksum
- Code 128 AUTO
- Code 128 A
- Code 128 B
- Code 128 C
- EAN 8
- EAN 13
- UPC-A
- UPC-E
- 5-Digits UPC-Based Extension
- 2-Digits UPC-Based Extension
- MSI
- MSI + Checksum (module 11)
- Codabar



- Code 11
- Pharmacode
- Pharmacode TWO-TRACKS
- IMB Intelligent Mail Barcode Onecode USPS-B-3200
- Postnet
- Planet
- RMS4CC (Royal Mail 4-state Customer Code) CBC (Customer Bar Code)
- KIX (Klant index Customer index)

As with text items, various form data, texts and insert tags can be linked here. The resulting text is encoded in the barcode. The barcode is normally output in the standard colour; if you want to use a different **color**, enter it in the Overwrite text color field.



Below this, enter the position in the PDF and the size of the barcode. It is also possible to specify a condition for inclusion; the barcode is only included if the condition is met.

# 6. Setting up the email attachment

In the form properties, there is the **Send form data via e-mail** checkbox. This checkbox usually sends the input data as raw data to the recipient address. If "Save PDF file and attach it to the email" is selected for further processing, the generated file is sent as an attachment with the email.

When using the **Notification Center**, there is a SimpleToken for the "Attachments via tokens" field in the notification. Enter the token ##form\_pdfattachment## there to attach the generated PDF file.

# 7. Directory protection, protected PDF

To prevent direct downloads of PDF files, which often contain personal data, the template and storage directory can be protected in the file manager. The files can still be used as email attachments without restriction.

In addition, the created PDF can be protected with a password. The protection can prevent opening or restrict authorisations.

Note: The PDF protection is not completely secure. With appropriate programs, the password can be bypassed!



# 8. Insert tags

The extension replaces insert tags in the position definitions, so that, if necessary, dynamic data or the data of the registered member may be used.

The extension also provides its own insert tags available:

```
{{pdf_forms::pdfdocument}}
```

can be used to include the file link of the generated document in a download link. If you are not using the Contao download content element, the file must be publicly accessible; in the case of a protected PDF directory, the download must take place via the Contao content element.

```
{{pdf_forms::pdfdocument::name}}
```

can be used to insert only the file name of the generated document in the reply page. This is also the file name of the PDF attachment to the email.

# 9. For programmers and developers

This section is aimed at programmers who want to influence this extension in their own modules. In the program flow, you can link in at various points using a HOOK registration. The extension **contao-pdfforms-bundle** calls the registered hooks, if any are available.

The following hooks are available:

#### pdf\_formsBeforePdf

Is called after data preparation **before** the PDF is created. Here, further entries can be added to the \$arrPDF array or existing entries can be modified. The hook must return the \$arrPDF as the return value.

#### Example:

```
// src/EventListener/Pdf_formsBeforePdfListener.php
<?php

namespace App\EventListener;
use Contao\CoreBundle\DependencyInjection\Attribute\AsHook;

#[AsHook('pdf_formsBeforePdf')]
class Pdf_formsBeforePdfListener
{
   public function __invoke(array $arrPDF)
   {
        // any code
        return $arrPDF;
   }
}</pre>
```



#### pdf\_formsPositions

Is called up for **each item** in the form during PDF creation. It is still possible to manipulate data here. The page number cannot be changed, otherwise the output will not work correctly. The passed and possibly modified array \$arrItem is expected as the return value.

### Example:

```
// src/EventListener/Pdf_formsPositionsListener.php
<?php

namespace App\EventListener;
use Contao\CoreBundle\DependencyInjection\Attribute\AsHook;
#[AsHook('pdf_formsPositions')]
class Pdf_formsPositionsListener
{
   public function __invoke(array $arrItem)
   {
       // any code
      return $arrItem;
   }
}</pre>
```

#### pdf\_formsAfterPdf

Is called up **after** creation, saving and transfer to form processing. Further final activities can be inserted here using a hook. The hook has no return value.

#### Example:

```
// src/EventListener/Pdf_formsAfterPdfListener.php
<?php
namespace App\EventListener;
use Contao\CoreBundle\DependencyInjection\Attribute\AsHook;
#[AsHook('pdf_formsAfterPdf')]
class Pdf_formsAfterPdfListener
{
    public function __invoke(string $pdfdatei, array $arrPDF): void
    {
        // any code
    }
}</pre>
```



### 10. Troubleshooting

Collection of some points which could cause errors:

### The template PDF file can not be read

The template PDF must be readable for the extension **tcpdf\_ext**, it must be available in the PDF specification format 1.4 (Acrobat 5.x). Recent PDF versions must be converted to the older format before.

In Adobe Acrobat on "Save As ..." select "Adobe PDF files optimized (\*.pdf)" and then adjust the settings to "Acrobat 5.0 and higher."

### The text does not have the right position in the form PDF generator

The measured positions usually have a fixed offset, which comes from the over- and under-lengths in the font. The easiest way is to set a text on test position and measure the difference to the desired position. This basic offset can be entered in the form properties and will calculate in the output at each position.

# There are fields that do not exist in PDF form, but should be output in the document anyway.

Simply enter an additional page number, if the target page is not included in the template, a blank page is added where additional information can be placed in the same way.

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Softleister, Dipl. Ing. Hagen Klemp, info@softleister.de, www.softleister.de