

Manual

for Contao extension "**contao-pdf-nc-attachment-bundle**"

This Contao extension extends the standard email gateway of the notification center in Contao 4 by the possibility to fill in a PDF template with the SimpleTokens which are sent to the notification center, to save it and to attach it to the mail.

The extension **contao-pdf-nc-attachment-bundle** installs itself as a limited demo. The demo version generates a demo hint in the PDF with full functionality and is limited to 2 output pages.

When you buy a license key, the restrictions are removed. The license allows you to use the extension in the domain specified at the time of purchase. The use in other domains requires an additional license.

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1. System Requirements

The extension is approved for Contao 4 from version 4.4

The Composer or Contao Manager is required for the installation.

If not available, the Notification Center (`terminal42/notification_center`) will be installed as well, because this is the basis for this extension.

2. Installation

Simply install the extension with the **Contao Manager**, search for

do-while/contao-pdf-nc-attachment-bundle

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

```
composer require do-while/contao-pdf-nc-attachment-bundle
```

3. Enhanced standard email gateway

After the installation has been completed, the Notification Center provides you with additional functions in the properties of the standard email gateway:
In the section *Fill in PDF form*, you can turn on the creation of a PDF file.

▼ Fill in PDF form

Fill PDF form
Filling out a PDF template

PDF template file*
files/pdftemplates/sl-vorlage.pdf (53.7 KiB)

Please select the PDF file as a template. You have the opportunity to make parts of submission dependent.

Directory for storing
files/attachments

Please select the directory where the PDF files should be saved. The directory can also be protected.

Expand file name

Expand the file name with InsertTags, e.g. {{date::ymd_His}} to make it unique.

You specify a **PDF template file** that includes an empty paper form. The form is filled out and saved as a copy with the entries. The page sizes of the template pages are copied.

To save the PDF files, you specify a **Directory for storing**. In this directory the complete generated PDFs are stored. The file name consists of the gateway title and a time stamp. You can adjust the structure of the file name in the **Expand file name** field. The default entry appends the current date and time. It is possible to use insert tags.

Multi-form template

Condition(?)	Pages from the PDF template(?)	
form_tarif==A	1-3,7	<input type="button" value="⊕"/> <input type="button" value="⊕"/> <input type="button" value="⊕"/> <input type="button" value="⊕"/> <input type="button" value="⊖"/> <input type="button" value="⊖"/> <input type="button" value="⊖"/> <input type="button" value="⊖"/> <input type="button" value="⊗"/>
form_tarif!=A	4-6,7	<input type="button" value="⊕"/> <input type="button" value="⊕"/> <input type="button" value="⊕"/> <input type="button" value="⊕"/> <input type="button" value="⊖"/> <input type="button" value="⊖"/> <input type="button" value="⊖"/> <input type="button" value="⊖"/> <input type="button" value="⊗"/>

If the template file contains different forms, applicable pages can be defined here, e.g. 1-4,7,10. Leave the fields blank to use all pages.

Take all valid document pages
Applies also template pages without position entries in the PDF.

List of SimpleTokens
Attaches a list with possible SimpleTokens to the PDF. Only if you are logged on to the backend!

It is possible to manage **multi-form templates** in one template PDF. To do this, all output pages are listed one after the other in one template PDF. By specifying the controlling fields as a condition, the output can be restricted to certain pages. In the example there is a checkbox element where you can select tariff A or B. According to the selection in the form a SimpleToken `##form_tarif##` is transmitted, which has the value "A" or "B". The first condition checks whether the token value is equal to (==) "A", then pages 1, 2, 3 and 7 are output, for tariff B the second condition applies, since the token value is not equal to (!=) "A", then pages 4, 5, 6 and 7 are output. Further conditions can also be used to control attachments in the PDF.


If you leave the multi-form template input fields completely empty, all pages, i.e. the complete template PDF, are used.

With **Take all valid document pages** you can control whether all pages from the template PDF are to be included into the output PDF, or only those pages on which valid positions are entered. So you have the possibility to create optional pages via the template. If a single empty page (e.g. AGB) is nevertheless contained, enter a position for this that prints a blank character. In the case of multiple templates, "All pages" refers only to the pages of the template that have been approved by the conditions.

To facilitate the creation a additional page with a **List of SimpleTokens** is possible. In the list you can see which SimpleTokens are sent to the PDF at all and can be used. In addition InsertTags in the position entries are also possible.

The list of tokens is only available if you are additionally logged into the backend during sending. For the normal web user this page will never be included.

Attaches a list with possible simple tokens to the PDF. Only if you are logged on to the backend:

Basic offset <input type="text" value="0"/> <input type="text" value="0"/> <small>X and Y displacement in millimeters of all positions on the sides.</small>	text color in PDF <input type="text" value="00c000"/>  <small>Please select the pen color to fill in the entries</small>
Title <input type="text" value="Test"/> <small>Title of PDF document</small>	Author <input type="text" value="Softleister"/> <small>Stated author in the PDF properties</small>

If you determine the positions of the entries, there are often differences to the edge of the paper. This offset is true for all positions of the PDF. To avoid having to adjust each item, you can just define a **Basic offset** by an entry in the gateway properties.

For the presentation, you can define the **text color in PDF** and the **Title** and the **Author** for the file properties.

<input checked="" type="checkbox"/> Protect PDF <small>The PDF is provided with password protection</small>	
PDF password for permissions <input type="text"/> <small>If this field is left blank, a random password is generated</small>	PDF password for opening <input type="text"/> <small>Leave the field blank if open without a password should be possible.</small>
Permissions <input type="checkbox"/> <i>Select all</i> <input type="checkbox"/> Print <input checked="" type="checkbox"/> Print in high resolution <input type="checkbox"/> Modify the document <input type="checkbox"/> Insert pages, rotate, delete, bookmarks <input type="checkbox"/> Remove pages <input checked="" type="checkbox"/> Copying content <input type="checkbox"/> comment on <input type="checkbox"/> Fill in form fields <small>Select everything that should be possible without a password.</small>	

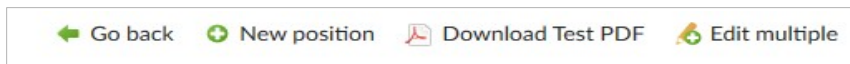
It is possible to protect the created PDF with a password. There are 2 ways:

- a) Password protection when opening the document
- b) Restriction of privileges, select all allowed permissions. If the PDF password for permissions is left blank, a random password is generated. The password is then unknown.

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

4. Definition of text positions in the PDF

In the overview of the defined gateways there is an additional icon (PDF icon). The following table, the positions of the entries in the template PDF are created. Any number of positions can be created.



It is possible to create a completed test PDF file directly in the backend. This allows you to quickly check that all the positions are on the right places in the form. All published positions are output, form fields are printed with its field name. Because no input data is available in the test output, the conditions are not checked, all fields and all pages are copied into the test PDF.

Creating the individual positions:

▼ Fill PDF form

Inputs and texts

Field name or "text" (?)	Condition (?)	
<input type="text" value="form_lastname"/>	<input type="text"/>	⊕ + ⊕ ↓ ⊕ ×
<input ,"="" type="text" value=""/>	<input type="text" value="form_firstname"/>	⊕ + ⊕ ↓ ⊕ ×
<input type="text" value="form_firstname"/>	<input type="text"/>	⊕ + ⊕ ↓ ⊕ ×

Input values and/or text to be inserted here into PDF

In the first section the text information are set. There are 2 options: A SimpleToken from the transmitted data or a fixed text in quotation marks.

In the example these are the tokens form_firstname, form_lastname and a fixed text with comma/space. This individual line definitions are lined up with spaces (no space before the comma).

In the 2nd column a condition can be programmed for the output. In the example, the comma depends on the fact that the token form_firstname exists and has a value.

Simple comparisons can also be made in the conditions, e.g. form_question==yes, if you want to test for a radio button, for example.

You can check for equality (==), two equal signs or test for inequality (!=), exclamation mark, and an equals sign

The fixed texts can also contain Insert tags:

▼ Fill PDF form

Inputs and texts

Field name or "text" (?)	Condition (?)	
<input type="text" value="form_city"/>	<input type="text" value="form_city"/>	⊕ + ↑ ↓ ×
<input "="" type="text" value=","/>	<input type="text" value="form_city"/>	⊕ + ↑ ↓ ×
<input type="text" value="{{date::Y-m-d}}"/>	<input type="text"/>	⊕ + ↑ ↓ ×

Input values and/or text to be inserted her into PDF

In this example, "Berlin, 2018-09-23" or only "2018-09-23" entered in the PDF, depending on whether **form_city** is specified or not.

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

Inputs and texts

Field name or "text" (?)	Condition (?)	
<input type="text" value="X"/>	<input type="text" value="form_terms_conditions_accepted"/>	⊕ + ↑ ↓ ×

Input values and/or text to be inserted her into PDF

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.

▼ Positions and attributes

Page in PDF*

Page on which the item is to be inserted

Position in X and Y*	Border right	
<input type="text" value="10"/> <input type="text" value="168"/>	<input type="text" value="50"/>	
Position in mm from the upper left corner	Optional margin setting for wordwrap of long texts	
Orientation	Text size	
<input type="text" value="left"/>	<input type="text" value="11"/>	
Orientation based on the position	Font size of text in pt	

Text attributes

Select all

Bold

Italic

Attributes bold or italic for the inserted text

The **position** consists of the PDF page, the horizontal distance from the left edge and the vertical distance from the top edge. Optionally, also a right margin can be entered. This is often useful in form fields of type textarea as a position where the lines of text to wrap. Depending on the font used (defined as PDF_FONT_NAME_MAIN /system/config/tcpdf.php), there may be a constant offset of over- and under-lengths in this font.

A good way to determine the positions, is a measurement of the PDF page e.g. in Photoshop. With a test position you can easily detect the offset values. Enter these offsets in the form properties and the offset will be included in all other positions.

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

5. PDF as email attachment

To send the generated PDF file together with the mail, the SimpleTokens of the Notification Center are extended in the notifications. In the token list you will now find a token **##pdfnc_document##** to use the PDF document name in the texts. In the "Attachments via tokens" you will find the token **##pdfnc_attachment##** to attach the PDF document.

6. Directory protection, protected PDF

To prevent direct downloads of PDF files, which often contain personal data, the storage directory can be protected in the file manager of Contao. The files are still fully usable as an e-mail attachment.

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

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

7. For programmers and developers

This section is intended for programmers who want to take in your own modules influence on these extensions. In the program sequence you can inject at different locations by means of a HOOK-registration. The extension **contao-pdf-nc-attachment-bundle** then calls the registered hooks, provided there are any.

The following hooks are available:

```
$GLOBALS['TL_HOOKS']['pdfnc_BeforePdf']
```

Called after the data preparation **before** the PDF is created. Here you can add items in the passed array \$arrPDF or modified existing ones. The hook should return the \$arrPDF as return value.

Example:

```
// config.php
$GLOBALS['TL_HOOKS']['pdfnc_BeforePdf'][] = array('vendor\MyExtension\MyClass',
                                                'myPdfNcBeforePdf');

// MyClass.php
namespace vendor\MyExtension;

public function myPdfNcBeforePdf( $arrPDF, $this )
{
    // beliebiger Code

    return $arrPDF;
}
```

```
$GLOBALS['TL_HOOKS']['pdfnc_Positions']
```

Called when creating a PDF for each position item on the form. It is possible to manipulate data. The page number can not be changed, otherwise the output will not work correctly. The return value is the modified array \$arrItem.

Example:

```
// config.php
$GLOBALS['TL_HOOKS']['pdfnc_Positions'][] = array('vendor\MyExtension\MyClass',
                                                'myPdfNcPositions');

// MyClass.php
namespace vendor\MyExtension;

public function myPdfNcPositions( $arrItem )
{
    // beliebiger Code

    return $arrItem;
}
```

```
$GLOBALS['TL_HOOKS']['pdfnc_AfterPdf']
```

Called after the generation, storage and shipping. You can add more final activities by this Hook. The hook has no return value.

Example:

```
// config.php
$GLOBALS['TL_HOOKS']['pdfnc_AfterPdf'][] = array('vendor\MyExtension\MyClass',
                                                'myPdfNcAfterPdf');

// MyClass.php
namespace vendor\MyExtension;

public function myPdfNcAfterPdf( $pdfdatei, $arrPDF, $this )
{
    // beliebiger Code
}
```

8. 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 PDF generator, 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 mea-

sure 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 for a note page, 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.

8. Tips and hints

Use a different font

TCPDF does not use TTF or OTF fonts directly, the fonts have to be converted first. This can be done online:

<http://fonts.snm-portal.com/>

Copy the received files (3 files per font) into the directory *vendor/tecnickcom/tcpdf/fonts/* of the Contao installation.

To use the font also in the PDF, the file *system/config/tcpdf.php* must be adapted:

```
\define('PDF_FONT_NAME_MAIN', 'fontname');
```

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