

# BULKPDF BUSINESS

## DOCUMENTATION



VERSION  
2024.09.24.1311

BULKPDF.COM

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**8 References**



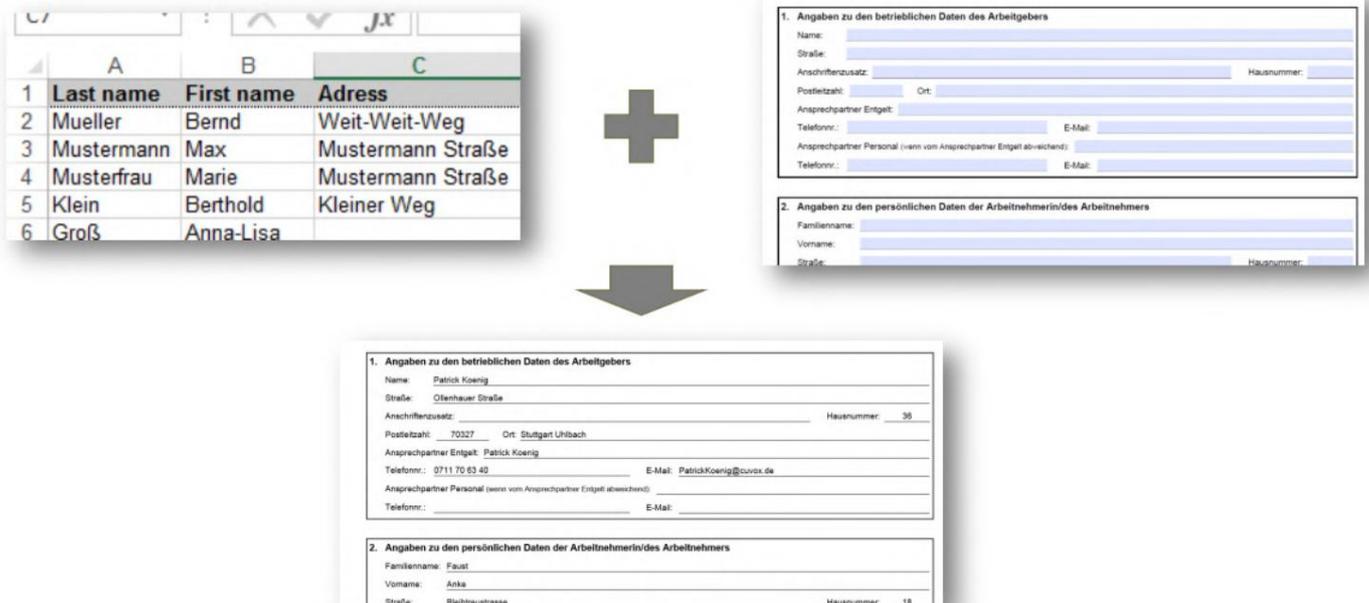
# Introduction

## 1.1 What is BulkPDF and how does it work?

In short: BulkPDF automatically detects the available data in the selected tabular data source (Excel, SQL databases, etc.). The found column names can then be assigned manually and/or automatically to the form fields. After filling has started,

The software scans the table line by line and inserts the cell value into the PDF form. The PDF file is then opened with the cell value also taken from the table.

saved under the selected file name. You will then receive a completed PDF form that is ready to be sent.



## 1.2 Functions

Below is a brief overview and a detailed list of the program's functions.

### Brief overview

**Easy to use** No expert knowledge required, clear and easy to use.

**Optimize for the future** Once created, a PDF configuration can be quickly be reused.

**Data source support** Various data sources are supported (For example: Excel, CSV, SQL databases, ...)

**Data protection** Without cloud. Without uploading your data. In compliance with European data protection regulations. Made in Germany.

**Updates** The program is constantly being developed and new features equipped.

### Automation in just a few steps

- 1. Select data source

- 2. Assign data to the PDF form fields, manually and/or automatically table
- 3. Select file name

**Create hundreds of PDF documents at once** Create any number of completed PDF documents at once with one click.

**Barcodes** Various barcodes are supported. (For example: QR, Data-Matrix, PDF417, EAN8, EAN13, Codabar, Code11, Code39, Code93, Code128[A,B,C], GS1-128, UPC)

#### **Additional features**

- AcroForm and XFA support
- PDF signatures
- Data dependent file names
- Write protection
- Images and hyperlinks
- PDF file

#### **Detailed feature list**

- Software License: Proprietary
- Automatically fill out PDF forms
- No watermark (outside DEMO)
- Unlimited number of PDF files
- Modern, clear interface
- Active development
- Live PDF preview
- Sign PDF files
- Microsoft Excel
- LibreOffice / OpenOffice

- Microsoft SQL Server
- MySQL / MariaDB
- Dynamic PDF file naming
- PDF compression
- Date formatting
- Pictures
- Hyperlink
- Email draft generator
- Unidimensional barcode (Codabar, Code11, Code128A, Code128, Code128B, Code128C, Code39, Code93, CodeUpc, Ean13, Ean8, GS1Code128)
- Bidimensional barcode (Pdf417, DataMatrix\_Barcode, QR)
- Documentation: Yes, but still under development.
- Can be used without internet (offline): Yes, after a one-time online activation.
- Supports BulkPDF Freeware configuration files
- Supports BulkPDF Business configuration files
- Console application (batch script integration)
- Support for different writing systems (Unicode)
- Selection of good-looking fonts for different languages or  
Writing systems: In development.
- Custom fonts
- AcroForm
- XFA: Yes, but some XFA documents may not be supported.
- Windows
- Mac OS: No, but can be used with a virtual machine (For example: Parallels Desktop, VirtualBox)
- Linux: No, but can be used with a virtual machine (For example: VirtualBox)

## 1.3 Requirements

### 1.3.1 Systems

Compatible with Windows 7, Windows 8, Windows 10 and Windows 11.

Approximately 500 MB of storage space is required for installation. The program requires a one-time Internet connection for license activation.

### 1.3.2 Data source - spreadsheet file

In order to use the data in the spreadsheet file, a certain

The first line is always

the column names. These should have a clear and understandable name

because they are used in the program to select the desired data sets

BulkPDF checks the column names until it finds an empty cell. Therefore, for example, the first

row in the first column must not be empty, otherwise no

further data can be found. The program then determines the maximum

Number of rows in the table. The program goes through line by line and

only stops when a row consists entirely of empty cells.

For example, a valid table could look like this:

First name	Last Name	Address	...
Miller	Bernd	Far-Far-Away	...
Mr. Smith		Mustermann Street ...	
Model Woman	Marie	Mustermann Street ...	
...	...	...	...

For another example, the included sample spreadsheet file  
be considered (see 2.1.1).

Furthermore, there is a separate data source for reading in a spreadsheet file, where the  
behavior of columns and rows is swapped so that, for example, the following table can also be  
used (see section

3.2.9):

<b>First name</b>	Bernd	Max	Mary	...
<b>Last name</b>	Mueller	Mustermann	Model woman	...
<b>Address</b>	Far-Far-Away	Mustermann Street	Mustermann Street ...	
...	...	...	...	...

It is worth noting that the use of Excel functions in the Excel  
data source and provides a useful way to store data

to process and prepare before inserting them into the PDF form field become.

The following spreadsheet file formats are supported by the program[7]:

File Type	Container	Format	File Format	.xlsx	OpenXml	Excel version(s)
2007 and newer	ZIP, CFB+ZIP					
.xlsb	ZIP, CFB				OpenXml 2007 and newer	
.xls	CFB		BIFF8			97, 2000, XP, 2003 98, 2001, vX, 2004 (Mac)
.xls	CFB		BIFF5			5.0, 95
.xls	-		BIFF4			4.0
.xls	-		BIFF3			3.0
.xls	-		BIFF2			2.0, 2.2
.csv	-		CSV			(All)

### 1.3.3 Data source - Microsoft SQL Server

There are several options available for obtaining data from a Microsoft SQL Server.

On the one hand, you can choose the option where you simply enter a “connection string” and then automatically find all available

Tables are displayed. One of these tables can then be selected to act as a data source. For

valid “connection string” examples, see

Please refer to section [6.5](#) .

The second option is the possibility, in addition to the “connection string”, simply

to enter an SQL query that will return the desired data. This

Option allows the full functionality of T-SQL on the Microsoft SQL

Server for the data source within BulkPDF.

### 1.3.4 Data source - Microsoft Access

There are several options available for using data from a Microsoft Access server.

Variants for data acquisition are available.

On the one hand, you can choose the option where you simply select a database file (.accdb or .mdb) and then all available tables for the respective database are automatically displayed.

From these tables, you can then

one must be selected to act as a data source.

The second option is the ability to enter an SQL query next to the file,

which gives you the desired data. This option allows the full

Functionality of SQL on the Microsoft Access database for the data source

within BulkPDF.

In some cases it may be necessary to download and install missing dependencies, such as the "Microsoft Access Database Engine 2010 Redistributable 64 Bit Version", see point 7.14.

### 1.3.5 JSON

In order to use the data in a JSON file, the data must be in a specific format. The following JSON structure would be in the complete state  
e.g. readable in BulkPDF:

```
1  {
2    "Table": [
3      {
4        "Last_name": "Mueller",
5        "First_name": "Bernd",
6        "Address": "Far-Far-Away",
7        "Checkbox_Value": "Yes",
8        "Radio_button_value": "2",
9        "Combobox_Value": "Cake"
10     },
11     {
12       "Last_name": "Doe",
13       ...
14       "Combobox_Value": "Test"
15     },
16     ...
17   ]
18 }
```

### 1.3.6 XML

In order to use the data in an XML file, the data must be in a specific format. The following XML structure would be in the complete state  
e.g. readable in BulkPDF:

```

1  <?xml version="1.0" encoding="UTF-8"?>
2  <root>
3    <row>
4      <Last_name>Mueller</Last_name>
5      <First_name>Bernd</First_name>
6      <Address>Far-Far-Away</Address>
7      <Checkbox_Value>Yes</Checkbox_Value>
8      <Radio_button_value>2</Radio_button_value>
9      <Combobox_Value>Cake</Combobox_Value>
10   </row>
11   <row>
12     <Last_name>Mustermann</Last_name>
13     ...
14     <Combobox_Value>Test</Combobox_Value>
15   </row>
16   ...
17 </root>

```

### 1.3.7 Data source - MySQL / MariaDB Server

Integrating data from a MySQL or MariaDB server into BulkPDF can be realized in several ways.

One of the possibilities involves entering a “connection string” through which automatically lists the available tables of the associated database. A table can then be selected from this list as a data source. For examples of valid “connection string” formats, refer to

Please refer to section [6.5](#).

Another way is to formulate a SQL query that provides the required data in addition to the connection string. This method allows the full range of SQL functions to be used on the MySQL or MariaDB.

Server can be used to configure the data source within BulkPDF.  
eren.

### 1.3.8 PDF form

A PDF form is a PDF file that contains form elements in the format of Acro-

Forms or XFA. Such form elements can be recognized, for example, in Acrobat Reader, for example, if you click in a text field and enter a text

If, on the other hand, in Acrobat Reader you have to first drag the frame of the text field itself in order to enter text, then

It is not a PDF form in the true sense, but a PDF

File that represents a form. This representation is then only a scanned image or a form marked with visible characters (e.g. underlines) that can only be filled out manually in the printed version. Such documents are only supported to a very limited extent by BulkPDF Business with the additional "text box", "radio button" and "checkbox" special field types.

In a real PDF form, all of these form fields have a name and possibly a value or a default value. To make BulkPDF easier to use, the form field names in the PDF file should be descriptive so that

these can be easily identified when assigning the data in BulkPDF.

For a valid example, see the sample form provided with the program or Section 2.

## 1.4 Standard PDF form field types and matching data

This subsection describes all field types that can appear in a PDF form. It also describes the data that BulkPDF Business expects for the correct completion of the

Fields.

### 1.4.1 Text box

A "text box" field contains a text that can be single-line or multi-line, depending on the design. Furthermore, the font, font size and write protection can be set for such a field. Based on the selected font,

all conceivable characters are supported.

#### TEXTFELD-BEISPIEL (TEXTBOX):

**Vorname:**

**Nachname:**

### 1.4.2 Check box

A checkbox field can be selected or deselected.

#### MARKIERFELD (CHECKBOX):

**Umweltfreundliche Verpackung:**

The following values can be used to fill in this field type:

“X” Selected “	” Not selected
x	
1	0
true	false
on	off
y	n
yes	no
Yes	no
yes	not
sí	

### 1.4.3 Radio button

A radio button is actually a group of selectable checkbox-like fields, but only one of these elements can be selected.

To fill in this field type, you must specify a number that corresponds to the index of the element. In the following example, "Male" would be the value "1", "Female" the value "2" and "Diverse" the value "3".

#### OPTIONSFELD-BEISPIEL (RADIOBOX):

**Geschlecht:** Männlich  Weiblich  Divers

### 1.4.4 List box

A "Listbox" is a list field type where one or more values can be selected from the list, depending on the PDF form settings.

The values specified by the creator of the PDF form can be filled in whether via a constant value or dynamically via a data source. In the dynamic variant, the text to be selected must be as in the PDF form must be written out.

#### LISTENFELD (LISTBOX):

**Zugehörige Branche:** IT  
Industrial  
Cake-Factory  
Tax

### 1.4.5 Combo box

A "combo box" behaves largely like a "list box" with the difference that this field type is intended to allow you to enter your own non-predefined

values, can use.

**KOMBINATIONSFELD (COMBOBOX):**

**Derzeitige Tätigkeit:**

## **1.5 BulkPDF Business special field types and matching data**

### **1.5.1 Hyperlink**

A hyperlink consists of two components, the text and the URL to which it is to be linked.

Both values must be specified next to the position of the field.

You can also set a font for a hyperlink.

### **1.5.2 Image**

In addition to a position and the desired size, an image requires a file path as a value.

The following file types are supported:

1. BMP
2. JPEG
3. GIF
4. PNG
5. TIFF
6. ICO & ICON

### **1.5.3 File attachment**

A file attachment has a path to a file on the system as a value. The description of the file is the file name and the MIME type is automatically determined based on the file extension.

### **1.5.4 Additional buttons for filling out scanned forms**

If it is not a PDF form in the true sense, but

to create a PDF that only contains images of forms, there is no

Ability to edit the form fields as you would with a real PDF

form field. In BulkPDF Business, however, you can add additional fields

over it and of course fill it with data. The form fields shown in the PDF file can be visually overlaid by using the following

The more precisely explained "Textbox", "Radio button" and "Checkbox button" are placed appropriately above it.

#### **1.5.5 Additional "text box"**

An additional "text box" corresponds to a "text box" that is read-only and can be added to the PDF document using BulkPDF without the presence of an actual "text box" field in the PDF document. In addition to the normal necessary settings, the position and size of the field are also required.

#### **1.5.6 Additional radio button**

An additional "radio button" corresponds to a "radio button" that is read-only and can be added to the PDF document using BulkPDF without the presence of an actual "text box" field. In addition to the normal necessary settings, the position and size of the field are also required.

The field is a single radio button, so if you want to have a group of elements, you need to add several of these special field types.

#### **1.5.7 Additional "Checkbox button"**

An additional "Checkbox button" corresponds to a "Checkbox button" that is read-only and can be added to the PDF document using BulkPDF without the actual "Checkbox button" field being present in the PDF document. In addition to the normal necessary settings, the position and size of the field are also required.

#### **1.5.8 Barcodes**

Barcode fields can be generated dynamically based on the data for each individual PDF form and are inserted as an image at the corresponding selected position in the form. The following is a list of the two barcode groups with all supported barcode types:

##### **Bidimensional Barcode**

1. PDF417: <https://en.wikipedia.org/wiki/PDF417>
2. DataMatrix: [https://en.wikipedia.org/wiki/Data\\_Matrix](https://en.wikipedia.org/wiki/Data_Matrix)
3. QR: [https://en.wikipedia.org/wiki/QR\\_code](https://en.wikipedia.org/wiki/QR_code)

## **Unidimensional Barcode**

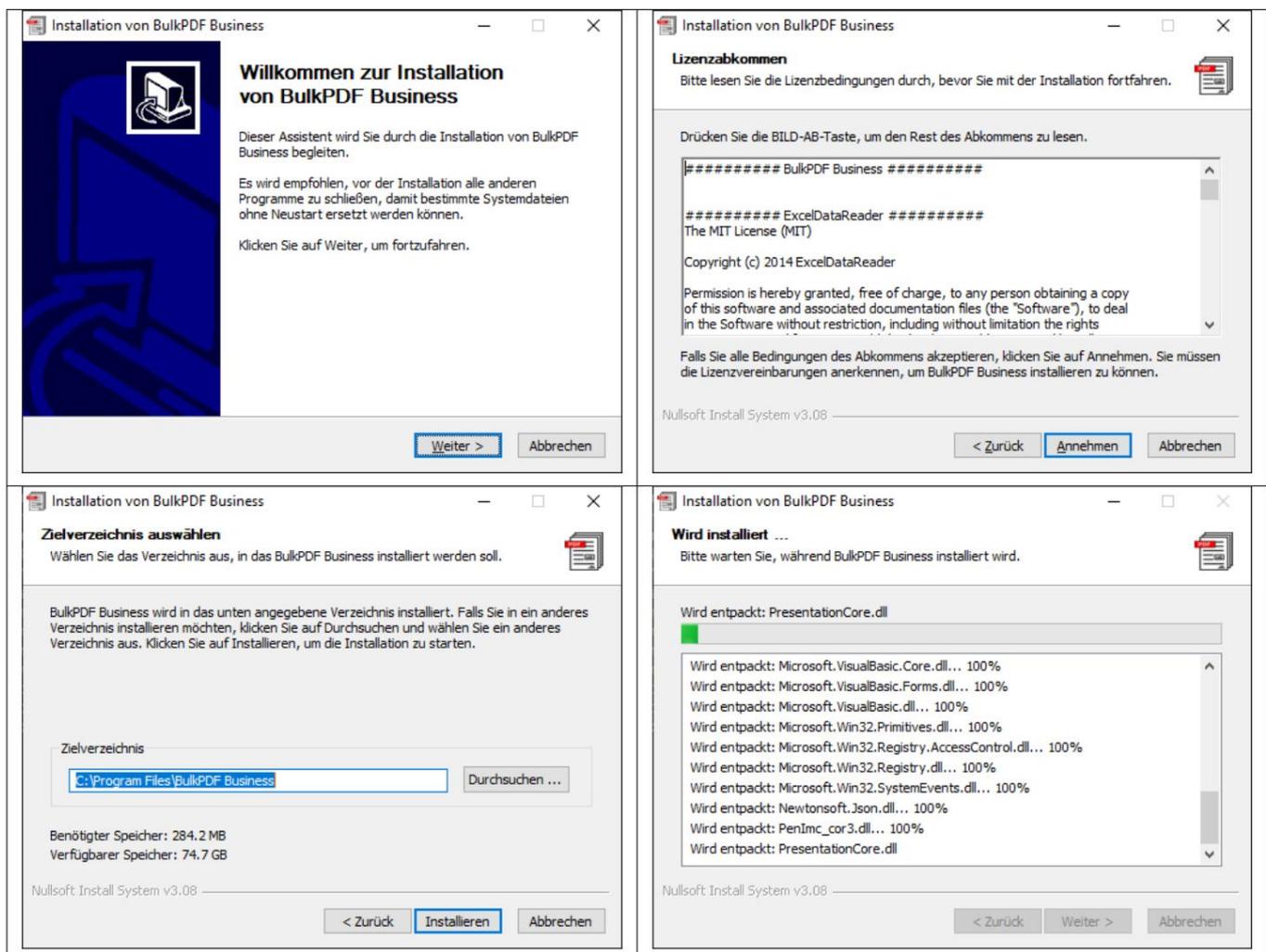
1. Codabar: <https://en.wikipedia.org/wiki/Codabar>
2. Code11: [https://en.wikipedia.org/wiki/Code\\_11](https://en.wikipedia.org/wiki/Code_11)
3. Code128, Code128A, Code128B , Code128C: [https://en.wikipedia.org/wiki/Code\\_128](https://en.wikipedia.org/wiki/Code_128)
4. Code39: [https://en.wikipedia.org/wiki/Code\\_39](https://en.wikipedia.org/wiki/Code_39)
5. Code93: [https://en.wikipedia.org/wiki/Code\\_93](https://en.wikipedia.org/wiki/Code_93)
6. CodeUpc: [https://en.wikipedia.org/wiki/Universal\\_Product\\_Code](https://en.wikipedia.org/wiki/Universal_Product_Code)
7. Ean8, Ean13: [https://en.wikipedia.org/wiki/International\\_Article\\_Number](https://en.wikipedia.org/wiki/International_Article_Number)
8. GS1Code128: <https://en.wikipedia.org/wiki/GS1-128>

## **1.6 Installation & Licensing**

Below you will find information regarding installation types and licensing types.

### **1.6.1 Graphical installation**

The necessary steps for installation as screenshots:



## 1.7 Unattended installation (Silent installation)

The parameter "/S" allows an unattended installation. If the installation path should be specified, this can be done using the parameter /D=C:\NewInstallDir\ . For this type of installation,

For licensing, copy a "LicenseConfirmation" into the %appdata%\BulkPDF folder or copied into the installation path on the system. This "LicenseConfirmation" can be activated on any system via the activation in the program or via the "BulkPDF Business Terminal Licensor" as long as it is

This is a multi-user license. Depending on the activation type, this is in the %appdata%\BulkPDF folder or in the installation path on the system.

This is not possible for single-user licenses, as the "LicenseConfirmation" contains a fixed hardware ID and is checked at startup whether this still matches the executing system.

### **1.7.1 Licensing**

Normal licensing is done via the program on the home page.  
(See chapter 3.1.2)

### **1.7.2 Multi-user / Terminal Server Licenses**

To license a terminal server, the "BulkPDF-Business-Terminal-Licensor.exe" located in the installation folder must be called with elevated rights. After entering and activating a valid multi-user/terminal server license key, this application creates a license file in the installation folder itself. This license file is later used by BulkPDF Business for license verification for the terminal server users.



## Application scenarios (Step by Step explanation)

The following application scenarios describe an example use of the Software.

### 2.1 Supplied sample files

When starting the program, the example files can be loaded via the information text on the first page of the program. The example files can also be loaded directly (see section 2.1.1).

#### 2.1.1 Example files in detail

The example files consist of the configuration “ProcessExample.BulkPDF”, from the data source “ProcessExample.xlsx” and the PDF form “ProcessExample.pdf”, which can be found in the installation folder (“C:\Program Files\BulkPDF Business”, provided the installation path was not changed during installation).

**BulkPDF Business Configuration: “ProcessExample.BulkPDF”** This BulkPDF Business configuration file contains all the information that was used in a previous session as well as references to the individual files, such as data source (“ProcessExample.xlsx”) and PDF form (“ProcessExample.pdf”). These

The configuration can be loaded again and again to avoid having to make all the settings again and again. This file is encoded in JSON format[5], is reasonably readable for humans and can be edited manually with any text editor if necessary, which can be particularly necessary when manually adjusting file paths.

**Data source (Excel file): “ProcessExample.xlsx”**

The spreadsheet file consists of tables. The table “Table1 (Customer-data)” which is selected in the example configuration and the table “Table 2 (creditworthiness)”.

1	Nachname (Textbox)	Vorname	Straße	Hausnummer	Postleitzahl	Ort	Geschlecht (Radio Button / Radiobox)	Umweltfreundliche Verpackung (Checkbox)	Zugehörige Branche (Listbox)	Derzeitige Tätigkeit (Combobox)
2	Mueller	Bernd	Weit-Weit-Weg	23	10178	Berlin	1	1	IT	Angestellter
3	Mustermann	Max	Mustermann Straße	5	80331	München	1	2	Industrial	Ehrenamtlicher
4	Musterfrau	Marie	Mustermann Straße	7	31515	Wunstorf	2	Yes	Cake-Factory	Freelancer
5	Klein	Berthold	Kleiner Weg	3	70173	Stuttgart	3	No	Tax	König von Deutschland
6	Groß	Anna-Lisa	Blumenweg	13	40210	Düsseldorf	3	Ja	Top secret	Ehrenamtlicher
7	蛋糕	饼干		17	34117	Kassel	2	Yes	Industrial	Ehrenamtlicher
8	топт	неженка		2	39104	Magdeburg	1	Yes	Cake-Factory	Angestellter
9	ř, ů, ě, č	הקליטה	אורח	37	24103	Buam	1	Yes	IT	Angestellter
10										
11										
12										
13										

	A	B	C
1	Nachname (Textbox)	Vorname	Kreditwürdig
2	Mueller	Bernd	Yes
3	Mustermann	Max	y
4	Musterfrau	Marie	x
5	Klein	Berthold	oui
6	Groß	Anna-Lisa	si
7	蛋糕	蛋糕	是
8	топт	топт	да
9	ř, ů, ě, č	הקליטה	true
10			

**PDF form: “ProcessExample.pdf”**

The sample PDF form contains all standard PDF form elements so that you can fill them out once when testing the program.

## Beispiel-Bestell-Formular

[Company Name]  
[Street Address, City, ST ZIP Code]  
[Phone]  
[Email]  
[Website]

**TEXTFELD-BEISPIEL (TEXTBOX):**

**Vorname:**  **Nachname:**

**Straße:**  **Hausnummer:**

**Postleitzahl:**  **Ort:**

**OPTIONSFELD-BEISPIEL (RADIOBOX):**

**Geschlecht:** Männlich  Weiblich  Divers

**MARKIERFELD (CHECKBOX):**

**Umweltfreundliche Verpackung:**

**LISTENFELD (LISTBOX):**

**Zugehörige Branche:** IT  
Industrial  
Cake-Factory  
Tax

**KOMBINATIONSFELD (COMBOBOX):**

**Derzeitige Tätigkeit:**

### 2.1.2 Filling out the sample PDF form

Following a brief description of the steps taken, the sample PDF form is filled out with the data from the sample spreadsheet file.

#### Home

After starting the program, the “home page” of the program opens. This offers a short welcome text, a reference to this documentation, the

## Loading the example configuration and a link to the feedback page.

The screenshot shows the BulkPDF Business software interface. The title bar reads "BulkPDF Business [DEMO]". The navigation menu includes "Startseite", "Datenquelle", "PDF-Formular", "Optionen", and "Fertigstellung". The main content area is titled "BulkPDF Business" and contains the following text:

Vielen Dank, dass Sie sich für die Nutzung von BulkPDF Business entschieden haben. Die Software, welche automatisiertes Ausfüllen von PDF-Formularen benutzerfreundlich und datenschutzgerecht für jeden Verfügbar macht. In den nächsten Schritten wird Sie das Programm zur Auswahl einer Datenquelle, der Zuweisung der Daten zu PDF-Formular Felder, der Dateinamenseinstellungen sowie der Ausgabe Ihrer PDF-Formular-Dateien führen. Klicken Sie nun bitte, um zu dem nächsten Schritt zu gelangen, auf die Schaltfläche unten in der rechten Ecke.

Bitte nehmen Sie sich die Zeit einmal in den FAQ (häufig gestellte Fragen) und in die Dokumentation hineinzuschauen. [Klicken Sie hier, um die Dokumentation zu öffnen.](#)

Für einen schnellen Überblick über das Programm steht auch Beispiel-Konfiguration zur Verfügung. [Klicken Sie hier, um die Beispiel-Konfiguration zu laden.](#)

Falls Sie Kritik, Wünsche an die weitere Entwicklungen oder allgemeines Feedback geben möchten, [klicken Sie bitte hier.](#)

The interface also features a sidebar with the BulkPDF Business logo and a PDF icon, and a bottom navigation bar with buttons for "Dokumentation", "Rechtliches", "Support", "Konfiguration: Laden", "Speichern", and "Weiter".

Clicking the “Next” button in the bottom right corner takes you to the “Data Source” page.

### Data source

In this step, the data source type “Excel” is first selected and then the Excel file itself.

BulkPDF Business [DEMO]

Startseite Datenquelle PDF-Formular Optionen Fertigstellung

Datenquelle

↑

Wählen Sie eine Datenquelle.

BulkPDF Business

PDF

2021.12.30.811

Dokumentation

Rechtliches

Copyright © 2021 Julien Bartels

Support Konfiguration: Laden Speichern

← Zurück Weiter →

BulkPDF Business [DEMO]

Startseite Datenquelle PDF-Formular Optionen Fertigstellung

Datenquelle Tabellenkalkulation / Excel

Tabellenkalkulation

Tabellenkalkulation-Datei: Auswählen...

Tabelle:

↑

Wählen Sie eine Tabellenkalkulationsdatei und eine Tabelle aus.

BulkPDF Business

PDF

2021.12.30.811

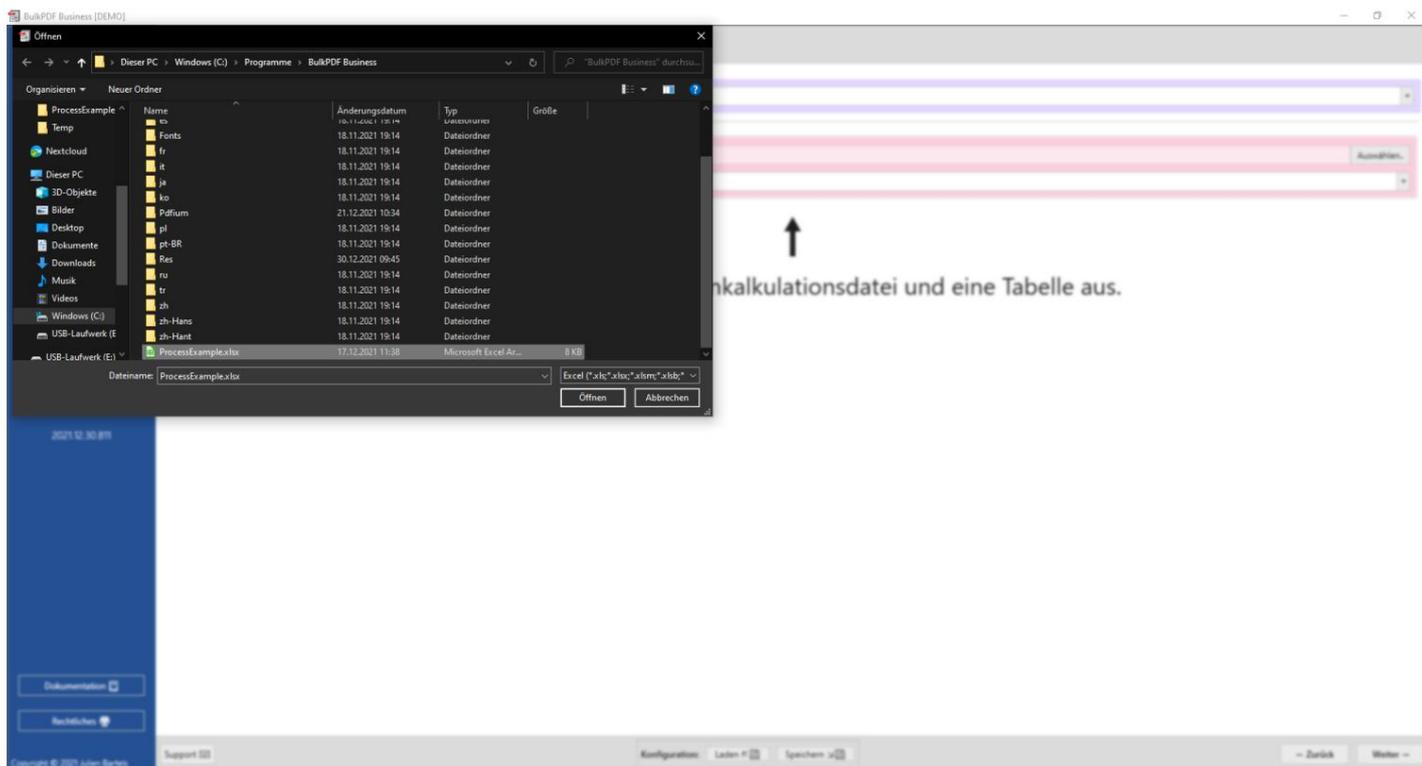
Dokumentation

Rechtliches

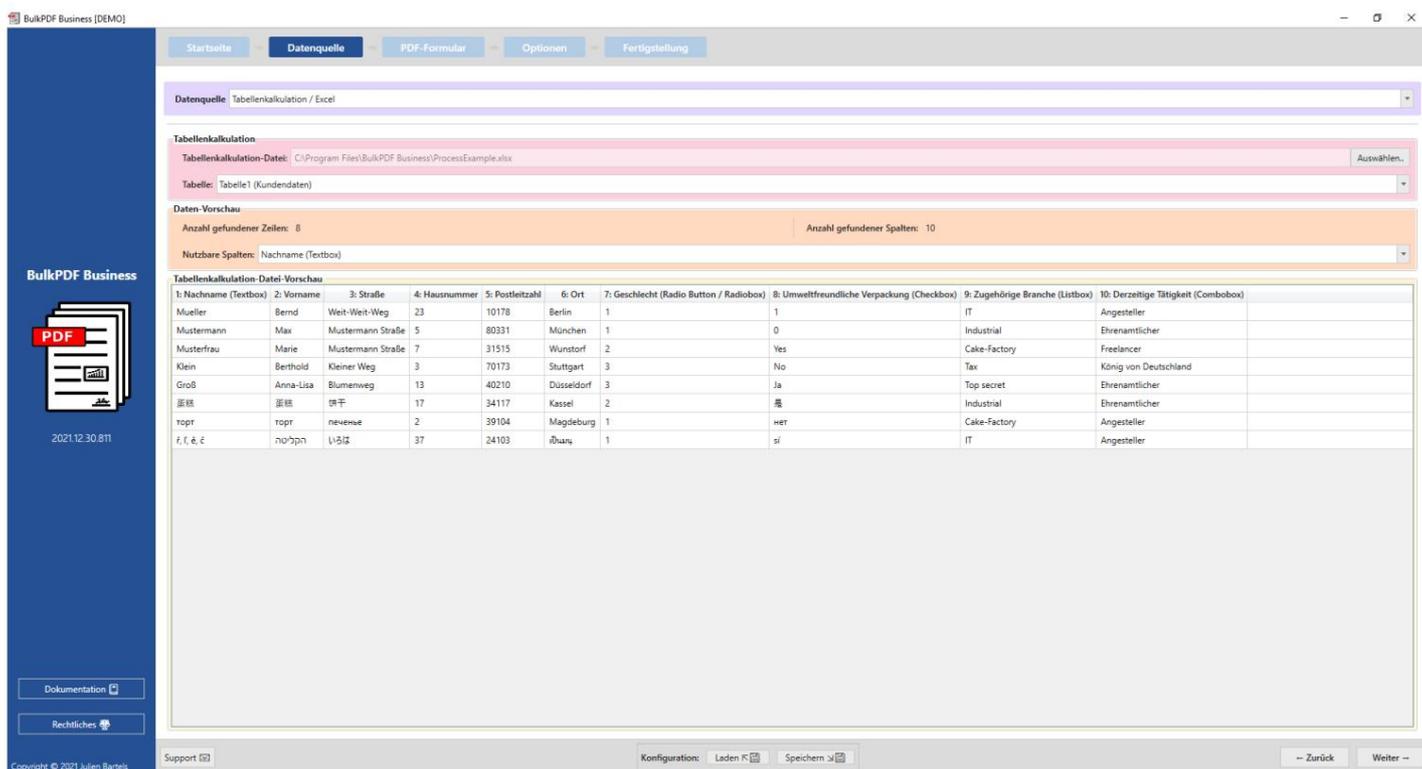
Copyright © 2021 Julien Bartels

Support Konfiguration: Laden Speichern

← Zurück Weiter →



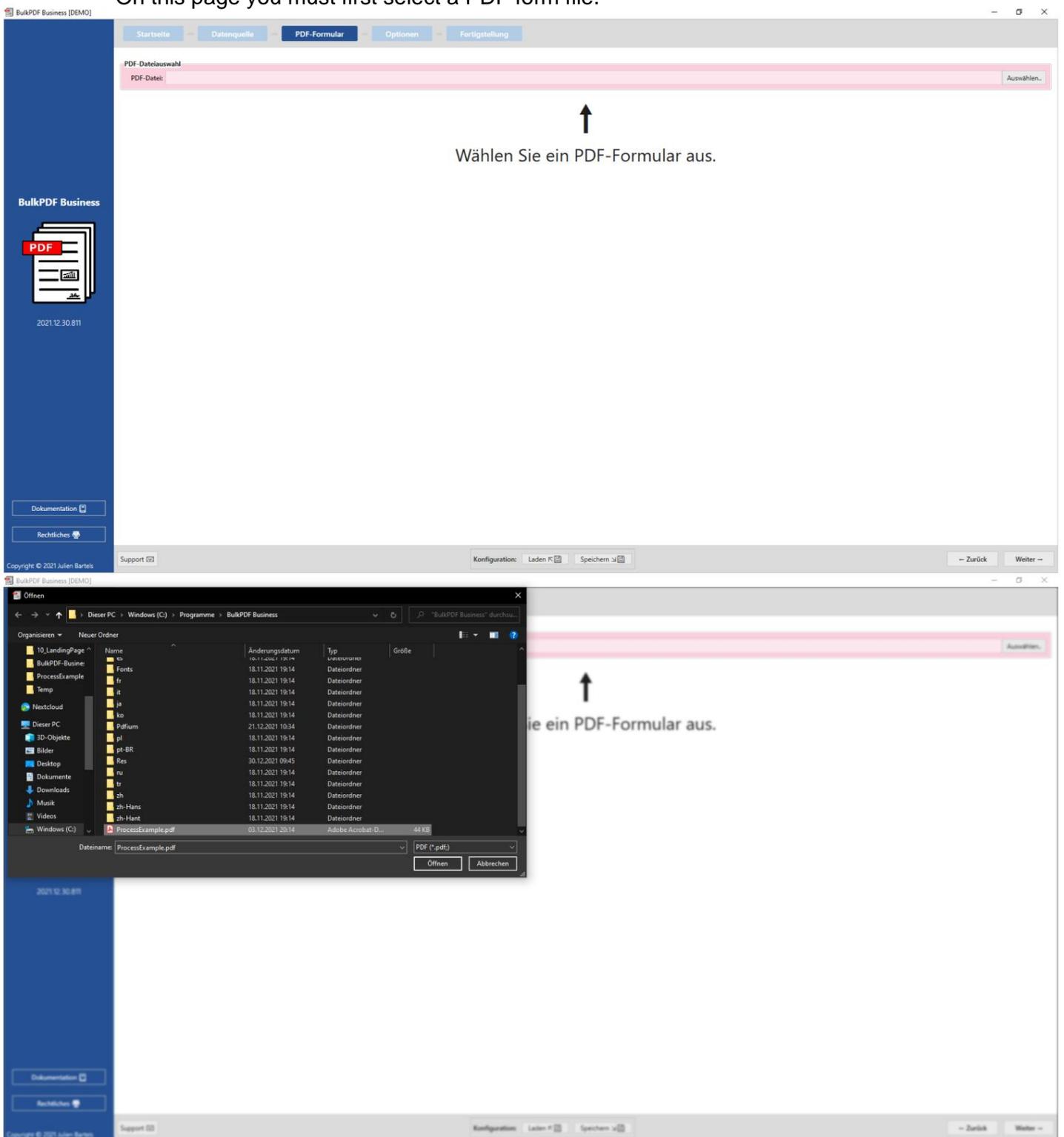
Once the Excel file has been loaded, you can select one of the tables it contains. A preview of the data in that table will then be displayed. Only the data that is in the correct format for BulkPDF and was found is displayed.



Clicking on "Next" again takes you to the page for the "PDF Form".

## PDF form

On this page you must first select a PDF form file.



After a PDF file has been selected, a collection of general data about the file, a PDF preview and the table for assigning the data from the “data source” to the individual fields of the PDF form appear.

The screenshot shows the BulkPDF Business interface. The main window displays a PDF form titled "Beispiel-Bestell-Formular". The form contains fields for company information and a "TEXTFELD-BEISPIEL (TEXTBOX)" section with fields for "Vorname", "Nachname", "Straße", "Hausnummer", "Postleitzahl", and "Ort". To the right, a table titled "Zuweisung PDF-Formular-Feld" lists the fields and their data sources. The "Nachname" field is highlighted in blue, indicating it is selected for editing.

Feld	Feldtyp	Aktueller Wert	Daten bearbeiten	Bearbeitet	Schreibschutz	Ausgewählte Daten
Vorname	TextBox		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nachname	TextBox		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Strasse	TextBox		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Hausnummer	TextBox		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Postleitzahl	TextBox		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ort	TextBox		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Geschlecht	RadioButton		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Umweltfreundliche Verpackung	CheckBox	False	<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Zugehörige Branche	ListBox		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Derzeitige Tätigkeit	ComboBox		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Here, the "Last Name" field was opened using the "Edit" button and the data was assigned to the "Last Name (Textbox)" column from the data source.

The screenshot shows the BulkPDF Business interface with the "Datenzuweisung" dialog box open. The dialog box is titled "Datenzuweisung" and contains the following information:

- Feld: Nachname
- Feldtyp: TextBox
- Schreibschutz:
- Datenquelle:
  - Keine
  - Datenquelle nutzen: [Nachname (Textbox)]
  - Konstanter Text: [ ]
- Schriftart: [ ]

The dialog box also has "Ok" and "Cancel" buttons. The background shows the same PDF form as in the previous screenshot, but the "Nachname" field is now filled with the value "Nachname" from the data source.

After closing the editing window, the preview now shows that the first row of the data source was used for demonstration purposes to fill out the form as an example and that "Last Name" now contains the value of the first row of the "Last Name (Textbox)" column from the data source.

BulkPDF Business [DEMO]

Startseite | Datenquelle | **PDF-Formular** | Optionen | Fertigstellung

PDF-Dateiauswahl  
PDF-Datei: C:\Program Files\BulkPDF Business\ProcessExample.pdf Auswählen...

Daten-Vorschau  
Anzahl gefundener nutzbarer PDF-Formular-Felder: 10 | Dokumententyp: AcroForm | Erstellungsdatum: 01.12.2021 14:14:19 | Änderungsdatum: 03.12.2021 19:14:42

PDF-Vorschau  
Automatische Aktualisierung:  Aktualisieren  In System PDF-Viewer öffnen   
Formularfeld hervorheben:

Zuweisung PDF-Formular-Feld

Feld	Feldtyp	Aktueller Wert	Daten bearbeiten	Bearbeitet	Schreibschutz	Ausgewählte Daten
Vorname	TextBox		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nachname	TextBox		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Nachname (Textbox)
Strasse	TextBox		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Hausnummer	TextBox		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Postleitzahl	TextBox		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ort	TextBox		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Geschlecht	RadioButton		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Umweltfreundliche Verpackung	CheckBox	False	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Zugehörige Branche	ListBox		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Derzeitige Tätigkeit	ComboBox		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Zusätzliche Spezialfelder

Feldtyp	Seite	Position	Beschreibung	Daten bearbeiten	Daten bearbeiten
<input type="text"/>					

Support  Konfiguration:   - Zurück Weiter -

Subsequently, all other fields were also assigned the appropriate columns as data sources.

BulkPDF Business [DEMO]

Startseite | Datenquelle | **PDF-Formular** | Optionen | Fertigstellung

PDF-Dateiauswahl  
PDF-Datei: C:\Program Files\BulkPDF Business\ProcessExample.pdf Auswählen...

Daten-Vorschau  
Anzahl gefundener nutzbarer PDF-Formular-Felder: 10 | Dokumententyp: AcroForm | Erstellungsdatum: 01.12.2021 14:14:19 | Änderungsdatum: 03.12.2021 19:14:42

PDF-Vorschau  
Automatische Aktualisierung:  Aktualisieren  In System PDF-Viewer öffnen   
Formularfeld hervorheben:

Zuweisung PDF-Formular-Feld

Feld	Feldtyp	Aktueller Wert	Daten bearbeiten	Bearbeitet	Schreibschutz	Ausgewählte Daten
Vorname	TextBox		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vorname
Nachname	TextBox		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Nachname (Textbox)
Strasse	TextBox		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Strasse
Hausnummer	TextBox		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hausnummer
Postleitzahl	TextBox		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Postleitzahl
Ort	TextBox		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ort
Geschlecht	RadioButton		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Geschlecht (Radio Button /
Umweltfreundliche Verpackung	CheckBox	False	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Umweltfreundliche Verpack
Zugehörige Branche	ListBox		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Zugehörige Branche (Listb
Derzeitige Tätigkeit	ComboBox		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Derzeitige Tätigkeit (Comb

Zusätzliche Spezialfelder

Feldtyp	Seite	Position	Beschreibung	Daten bearbeiten	Daten bearbeiten
<input type="text"/>					

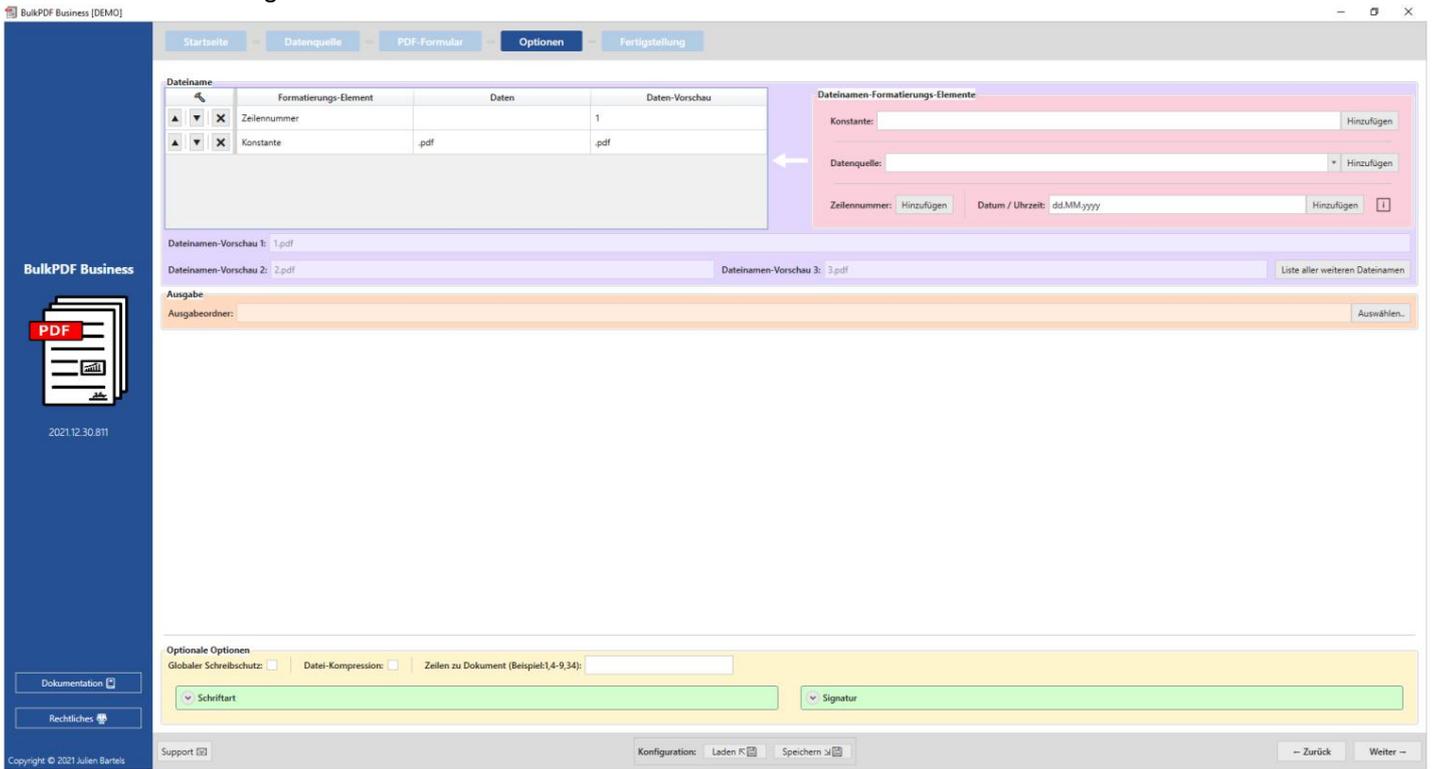
Support  Konfiguration:   - Zurück Weiter -

After the data has been assigned to the fields, the final setting step can be reached by clicking on the "Next" button.

## Options

In this step, the file name can be composed by including formatting elements such as data from a column in the data source, date/time, etc.

to the file name generator. Whenever you change these formatting elements, you will immediately see in the preview below, based on the first three file names, what exactly the change will do.



The screenshot shows the 'Options' tab in the BulkPDF Business software. The interface is divided into several sections:

- Startseite**, **Datenquelle**, **PDF-Formular**, **Optionen** (selected), and **Fertigstellung** tabs are visible at the top.
- Dateiname** section: A table with columns 'Dateiname', 'Formatierungs-Element', 'Daten', and 'Daten-Vorschau'. It contains two rows: 'Zeilennummer' with value '1' and 'Konstante' with value 'pdf'. Below the table are three preview fields: 'Dateinamen-Vorschau 1: 1.pdf', 'Dateinamen-Vorschau 2: 2.pdf', and 'Dateinamen-Vorschau 3: 3.pdf'. A button 'Liste aller weiteren Dateinamen' is also present.
- Dateinamen-Formatierungs-Elemente** section: A list of formatting elements with 'Hinzufügen' buttons. The elements shown are 'Konstante', 'Datenquelle', 'Zeilennummer', and 'Datum / Uhrzeit: dd.MM.yyyy'.
- Ausgabe** section: A field for 'Ausgabeortner:' with an 'Auswählen...' button.
- Optionale Optionen** section: Includes checkboxes for 'Globaler Schreibschutz', 'Datei-Kompression', and 'Zellen zu Dokument (Beispiel:1,4-9,34)'. Below are dropdown menus for 'Schriftart' and 'Signatur'.
- Footer**: 'Support' icon, 'Konfiguration: Laden' and 'Speichern' buttons, and 'Zurück' and 'Weiter' navigation buttons.

In addition to a good looking file name, the output directory was also selected in which all the files created in the same way will be located.

BulkPDF Business [DEMO]

Startseite | Datenquelle | PDF-Formular | **Optionen** | Fertigstellung

**Dateiname**

Dateiname	Formatierungs-Element	Daten	Daten-Vorschau
▲ ▼ X	Datenquelle	Nachname (Textbox)	Mueller
▲ ▼ X	Konstante	-	-
▲ ▼ X	Datenquelle	Vorname	Bernd
▲ ▼ X	Konstante	.pdf	.pdf

Dateinamen-Vorschau 1: Mueller\_Bernd.pdf

Dateinamen-Vorschau 2: Mustermann\_Max.pdf

Dateinamen-Vorschau 3: Musterfrau\_Marie.pdf

Liste aller weiteren Dateinamen

**Ausgabe**

Ausgabeordner: C:\Users\tadel\Downloads

Auswählen...

**Optionale Optionen**

Globaler Schreibschutz:  | Datei-Kompression:  | Zellen zu Dokument (Beispiel:1,4-9,34):

Schriftart:  | Signatur:

Support | Konfiguration: Laden  | Speichern  | Zurück | Weiter

Click on "Next" to go to the final step.

## Completion

This step no longer offers any setting options but only serves as an overview of the settings made.

BulkPDF Business [DEMO]

Startseite | Datenquelle | PDF-Formular | Optionen | **Fertigstellung**

**Vorschau**

Ausgabeordner: C:\Users\tadel\Downloads

Anzahl gefundener Zellen: 8 | Schreibschutz:  | Datei-Kompression:

Anzahl an PDF-Formular-Felder: 10 | Anzahl an Spezial-Feldern: 0

Zeilenummer	Datei	PDF-Vorschau
1	C:\Users\tadel\Downloads\Mueller_Bernd.pdf	<input type="button"/>
2	C:\Users\tadel\Downloads\Mustermann_Max.pdf	<input type="button"/>
3	C:\Users\tadel\Downloads\Musterfrau_Marie.pdf	<input type="button"/>
4	C:\Users\tadel\Downloads\Klein_Berthold.pdf	<input type="button"/>
5	C:\Users\tadel\Downloads\Groß_Anna-Lisa.pdf	<input type="button"/>
6	C:\Users\tadel\Downloads\蛋糕_蛋糕.pdf	<input type="button"/>
7	C:\Users\tadel\Downloads\ropr_ropr.pdf	<input type="button"/>
8	C:\Users\tadel\Downloads\1, f, & _no'p'n.pdf	<input type="button"/>

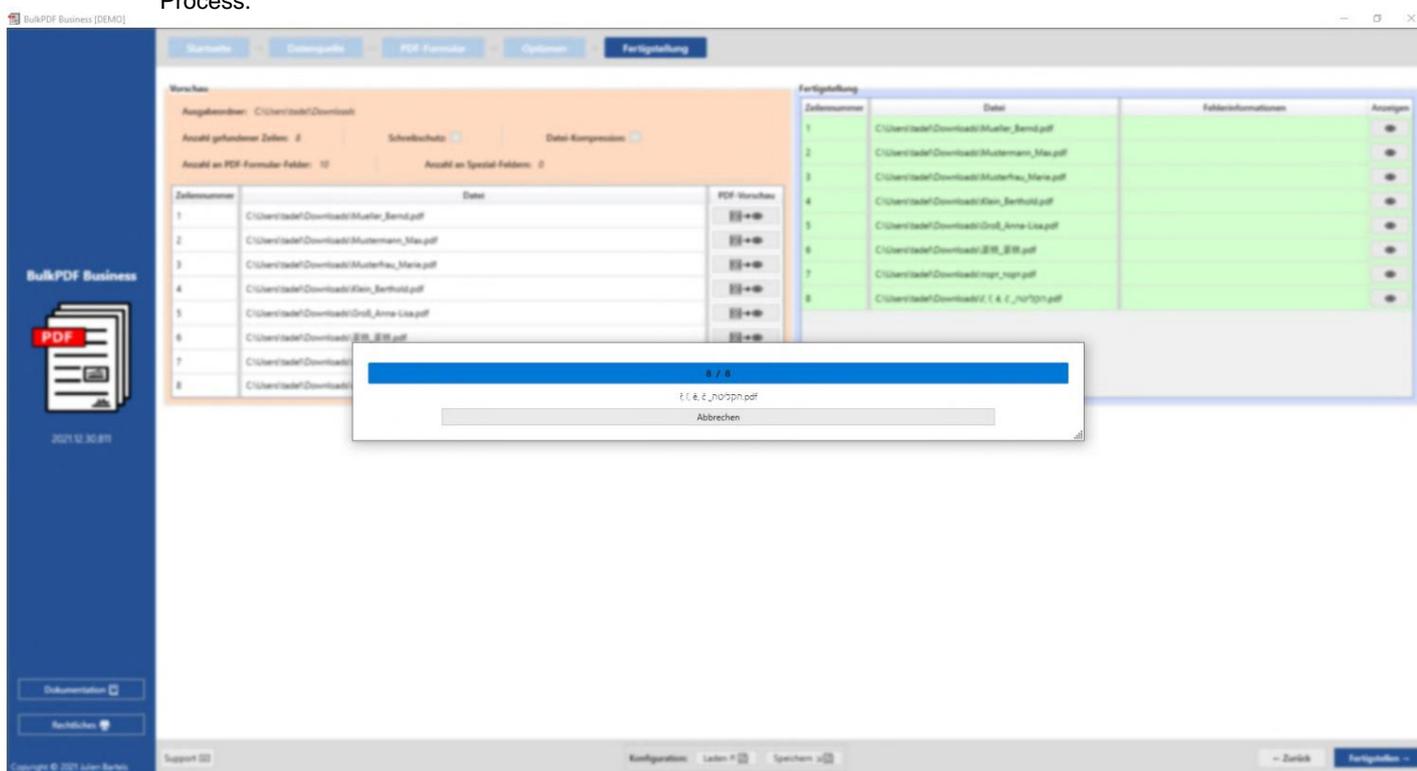
**Fertigstellung**

Zeilenummer	Datei	Fehlerinformationen	Anzeigen

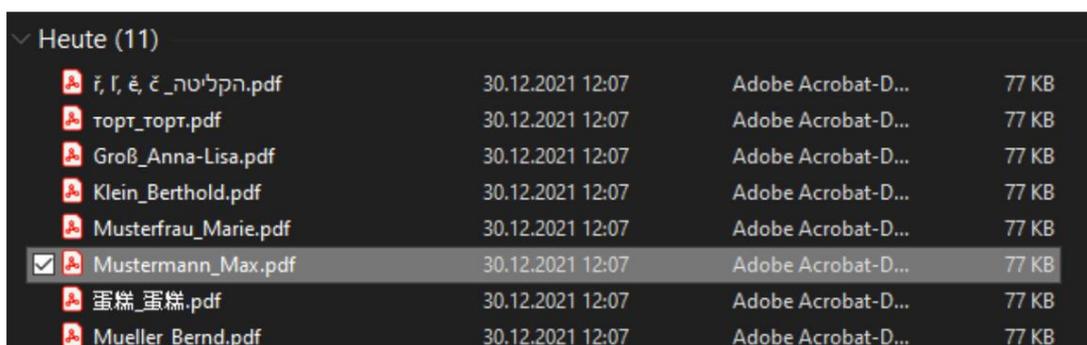
Support | Konfiguration: Laden  | Speichern  | Zurück | **Fertigstellen**

By clicking on the "Finish" button at the bottom right, the filling process begins.

Process.



After all files have been created, the output folder with the created files opens automatically.



The configuration you have made should be saved at the end so that you can quickly access it again in the future without having to set anything again.

# 3

## User interface in Details (GUI)

The following describes all the elements in each window in the application. This chapter is not intended as a “step-by-step” guide to application, but as a reference work for unknown or unclear functions within of the program. This chapter can also provide an overview of the functionality of the application in general. To get started with the application itself, please refer to Chapter 2 .

### **3.1 Home**

On the home page you will find basic settings, software license related, update functionality and information regarding the program.

### 3.1.1 Overview

The screenshot shows the BulkPDF Business application interface. At the top, a navigation bar (A) contains tabs for 'Startseite', 'Datenquelle', 'PDF-Formular', 'Optionen', and 'Fertigstellung'. The 'Startseite' tab is active. Below the navigation bar, the main content area displays the 'BulkPDF Business' title and a welcome message. A sidebar on the left shows a 'BulkPDF Business' logo and a PDF icon. Below the main content, there are two panels: 'Software-Lizenz' (B) and 'Software-Version' (C). The 'Software-Lizenz' panel shows the license status as 'X' and a 'Lizenz aktivieren' button. The 'Software-Version' panel shows the installed version (2021.12.30.811) and a 'Verfügbar' button. At the bottom, there is a footer area (E) with 'Rechtliches' and 'Support' links, and a configuration bar (G) with 'Laden' and 'Speichern' buttons. A 'Weiter --' button (H) is located at the bottom right.

**A Page title:** In this bar you can find all the pages of the application. The currently active page is highlighted by a dark blue background. All other pages are displayed with a light blue background. (The Bar can also be used for quick navigation by clicking on the individual page title is clicked.)

**B License:** In this element group you can find the current status of the license, its expiration date and a button to activate a license (see the status of the license is shown with a check mark after a successful license activation and verification. If a cross is displayed instead of the check mark is displayed, no license is active or no valid license is available. the.

**C Software version:** This is the currently installed software version, the latest available version and a button to update the software. There is also a button for selecting the update channel. In the "Stable" channel contains the latest tested version, while the "Beta" channel is the latest version, which may contain unknown bugs but offers the latest features.

**D Options:** This element group currently only offers the selection of the desired program language.

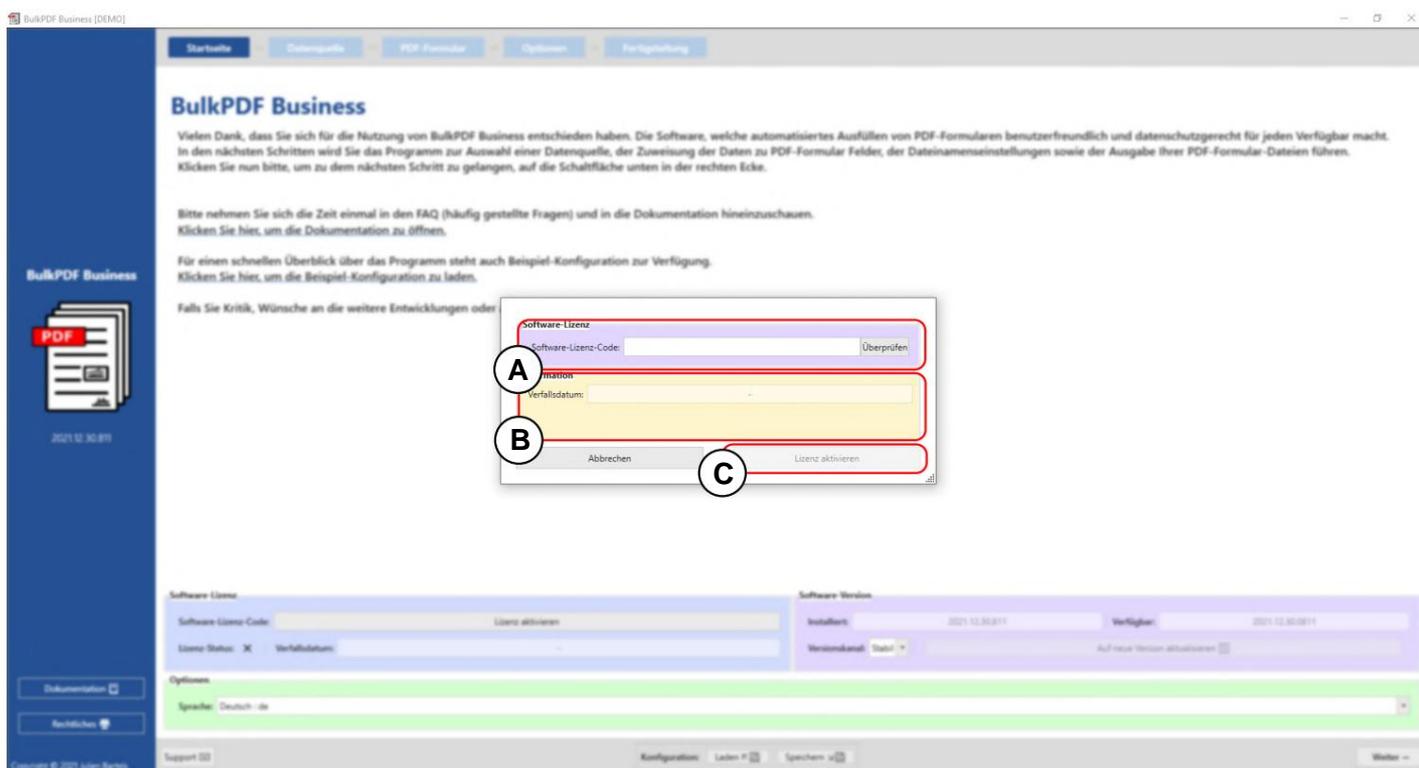
**E Page panel:** This is where the documentation window (see chapter 3.7.2) as well as legal information, such as software license texts, can be accessed.

**F Support:** This button opens the support window (see chapter 3.7.1).

**G Configuration:** In the element group, the current configuration (everything that has been loaded, set and changed since the beginning of the program session) can be saved or an old, already created configuration can be reloaded. (See 3.1.3 for more information)

**H Navigation buttons:** This area contains buttons for moving forward or backward one page in the program. In the last step, the "Next" button becomes "Finish", which finally creates the PDF files (see completion page 3.5).

### 3.1.2 License activation

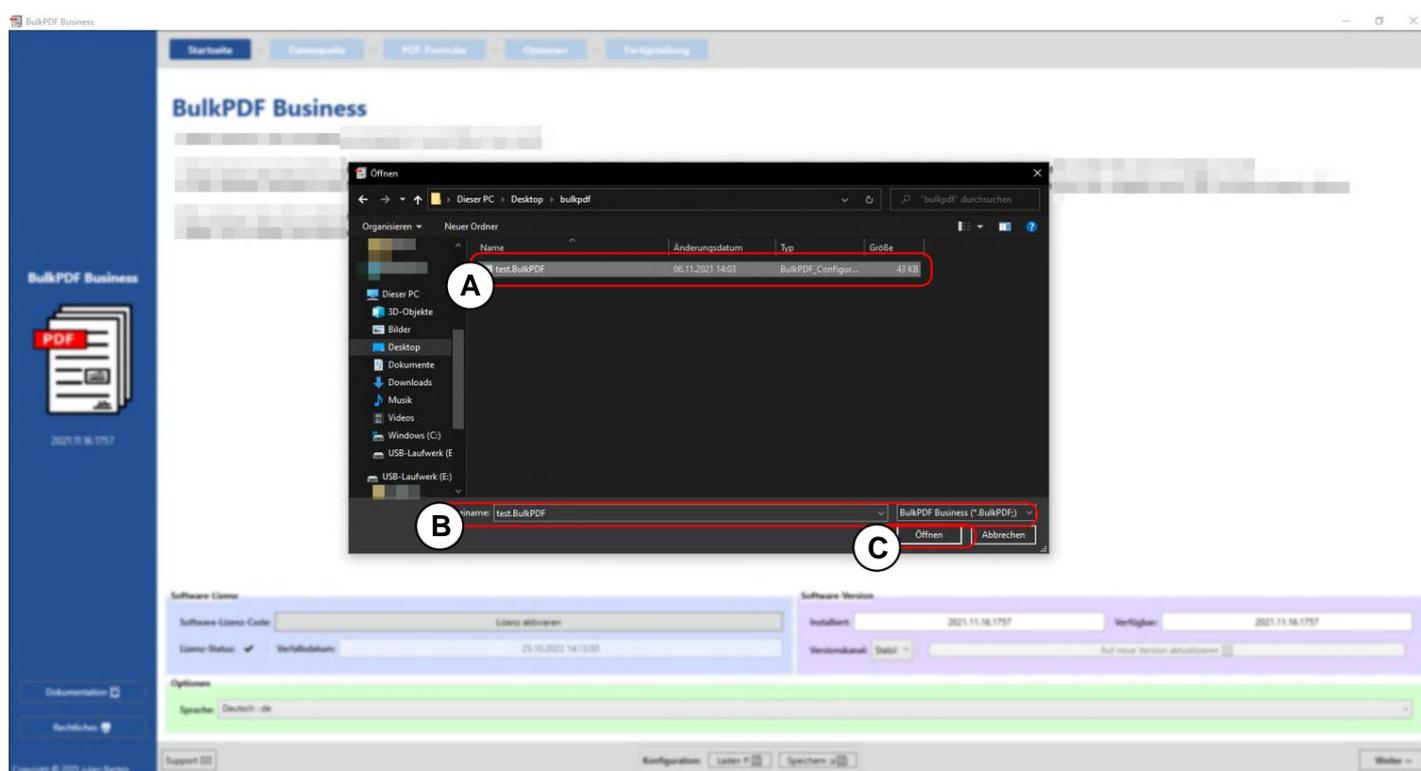


**A Software license:** The software license code is entered here (e.g. F0-OB-EX-55). After entering the code, the "Check" button must be pressed so that the validity can be checked by the license server and the expiration date of the program key can be displayed.

**B License information:** This is where you will find the information about the program key that was loaded using the "Check" button.

**C Activate license:** If the license exists, is valid and has not yet expired, this button can be pressed to create an encrypted license file on the system, which from now on verifies, even offline, that all paid functions within the program can be used.

### 3.1.3 Configuration: Save & Load



**A** A previously saved BulkPDF configuration.

**B** File name and file extension of the BulkPDF configuration.

**C** The current BulkPDF configuration can be saved here.

**Encryption** If passwords for signatures or data connections are to be saved with the configuration, this configuration should be saved encrypted. For this purpose, the file extension ".BulkPDFEncrypted" can be selected when saving a configuration, which then creates the file encrypted after entering a password. When loading a ".BulkPDFEncrypted" configuration, the password is requested again to load it.

## 3.2 Data sources

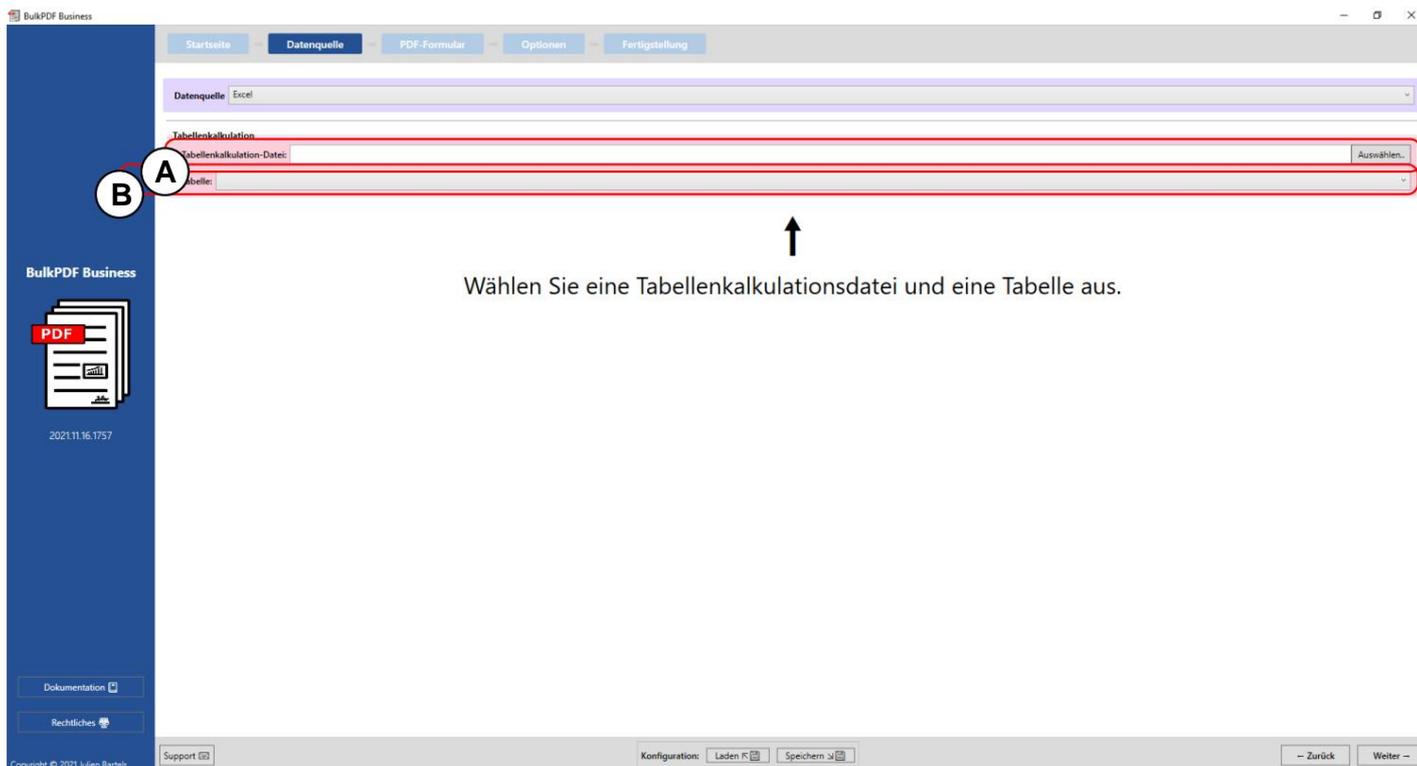
In this step, you will be asked to select a data source, such as Excel, Microsoft SQL Server, etc. Each data source type has its own setting options and points that must be observed. This section and the individual data source types are discussed below.

### 3.2.1 Overview



**A** This button allows you to select one of the currently supported data source types, such as Excel, Microsoft SQL Server, etc.

### 3.2.2 Excel / spreadsheet files



**A** A spreadsheet file can be loaded here. For further information on which file formats are supported, see chapter 1.3.2.

**B** Here one of the tables contained in the spreadsheet file must be selected.

Only data from one table can be selected in a spreadsheet file can be used simultaneously.

**A Spreadsheet:** You can see a selected xlsx file and the selected table "Table1".

**B Data preview:** The number of rows and columns found are displayed in the element group. A list of the columns found, which can be used in the next steps for data selection, is also shown for an overview and to check that the file is loading correctly.

**C Spreadsheet data preview:** The first 1000 recognized rows of the spreadsheet file are displayed to check whether the file was loaded as intended and the data was recognized.

1: Nachname (Textbox)	2: Vorname	3: Straße	4: Hausnummer	5: Postleitzahl	6: Ort	7: Geschlecht (Radio Button / Radiobox)	8: Umwelfreundliche Verpackung (Checkbox)	9: Zugehörige Branche (Listbox)	10: Derzeitige Tätigkeit (Combobox)
Mueller	Bernd	Weit-Weit-Weg	23	10178	Berlin	1	1	IT	Angestellter
Mustermann	Max	Mustermann Straße	5	80331	München	1	0	Industrial	Ehrenamtlicher
Musterfrau	Marie	Mustermann Straße	7	31515	Wunstorf	2	Yes	Cake-Factory	Freelancer
Klein	Berthold	Kleiner Weg	3	70173	Stuttgart	3	No	Tax	König von Deutschland
Groß	Anna-Lisa	Blumenweg	13	40210	Düsseldorf	3	Ja	Top secret	Ehrenamtlicher
蛋糕	饼干		17	34117	Kassel	2	1	Industrial	Ehrenamtlicher
topr	revenue		2	39104	Magdeburg	1	her	Cake-Factory	Angestellter
ר, ר, א, ז	חוס'קני	יוריס	37	24103	אביב	1	sf	IT	Angestellter

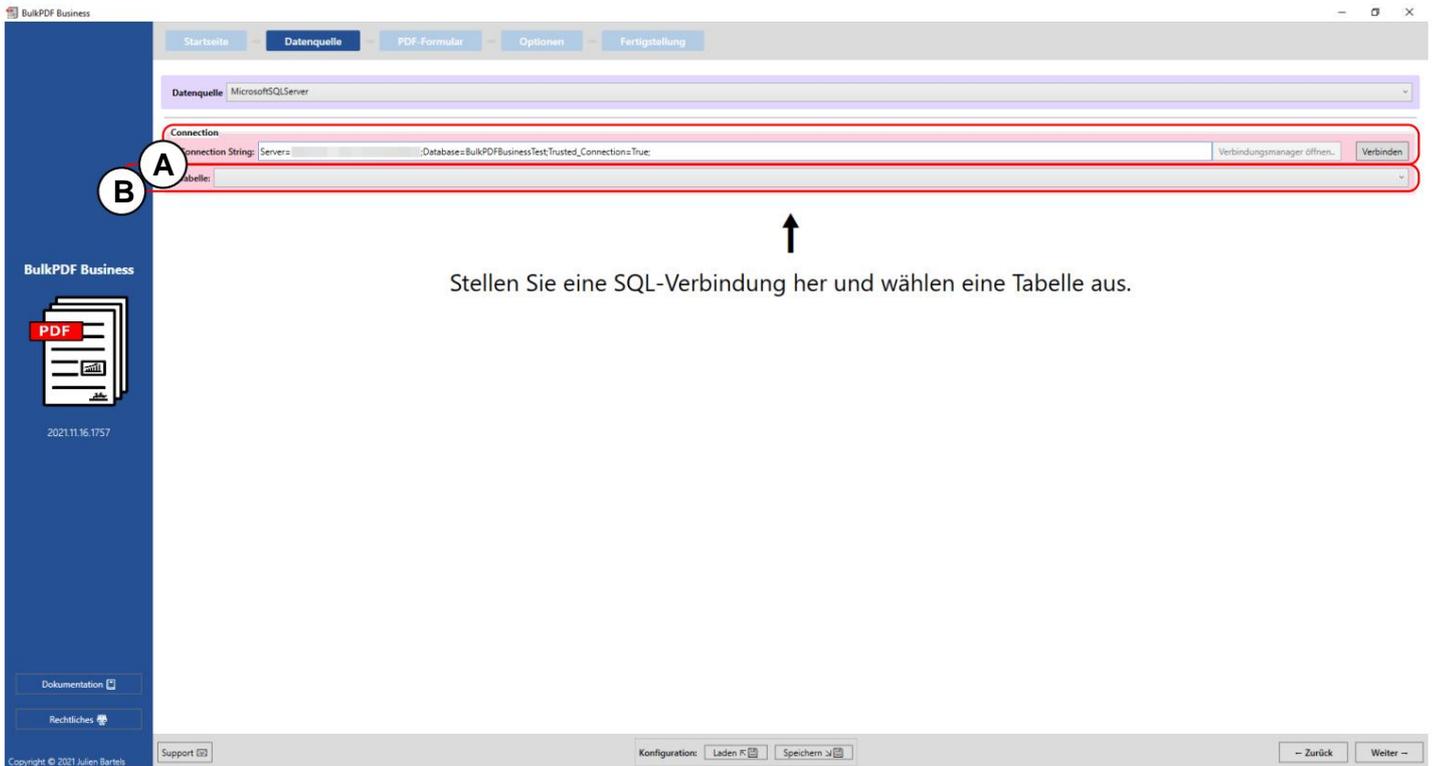
**A Spreadsheet:** You can see a selected xlsx file and the selected table "Table1".

**B Data preview:** The number of rows and columns found are displayed in the element group. A list of the columns found, which can be used in the next steps for data selection, is also shown for an overview and to check that the file is loading correctly.

**C Spreadsheet data preview:** The first 1000

recognized rows of the spreadsheet file are displayed to check whether the file was loaded as intended and the data was recognized.

### 3.2.3 Microsoft SQL Server



Stellen Sie eine SQL-Verbindung her und wählen eine Tabelle aus.

**A Connection string:** The “Connection string” is displayed here with the example “Server=SERVERADDRESS;Database=BulkPDFBusinessTest;Trusted\_Connection=True;”. For this data source, the “Database” section in the “Connection string” is important because only the tables from this selected database are listed.

**B** Selection of the table from the database selected in the “Connection string”. Only data from one table can be used at a time in the program with this data source.

**A** You can see the "Connection string" and the selected table "Example".

**B** The number of rows and columns found are displayed in the element group. A list of the columns found, which can be used in the next steps for data selection, is also shown for an overview and to check that the file is loaded correctly.

**C** At this point, the first 1000 recognized rows of the SQL table are displayed in order to check whether it was loaded as desired and the data was recognized.

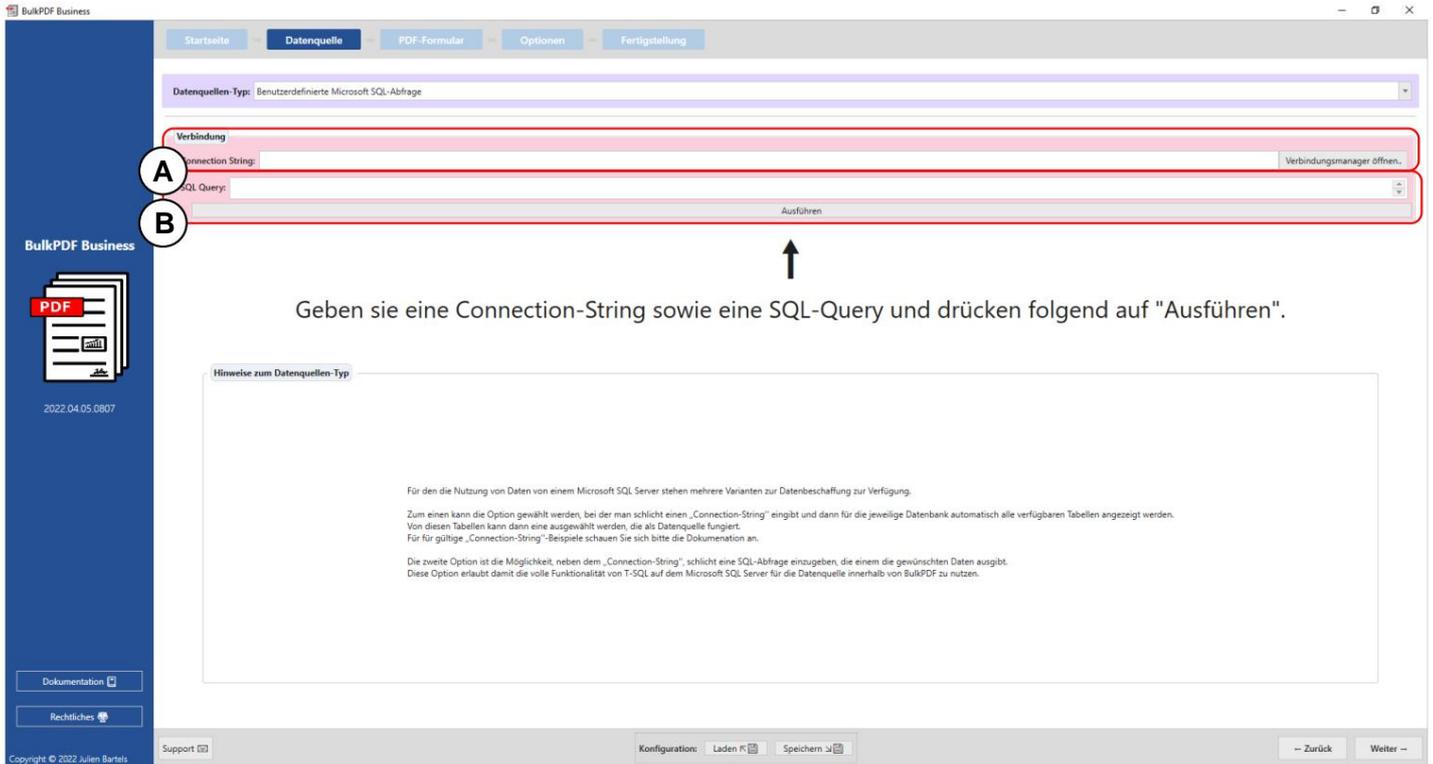
1: Lastname	2: Firstname	3: Adress	4: CheckboxValue	5: Radiobutton_value	6: ComboboxValue
Mueller	Bernd	Weit-Weit-Weg	Yes	1	Kuchen
Mustermann	Max	Mustermann Straße	No	2	Test
Musterfrau	Marie	Mustermann Straße	Yes	3	Keks
Klein	Berthold	Kleiner Weg			
Groß	Anna-Lisa		No	4	
蛋糕	蛋糕	neuestr	No	4	
topr	topr	饼干	Yes	3	Keks
1, 1, 4, 4	1, 1, 4, 4	1, 1, 4, 4			

**A** You can see the "Connection string" and the selected table "Example".

**B** The number of rows and columns found are displayed in the element group. A list of the columns found, which can be used in the next steps for data selection, is also shown for an overview and to check that the file is loaded correctly.

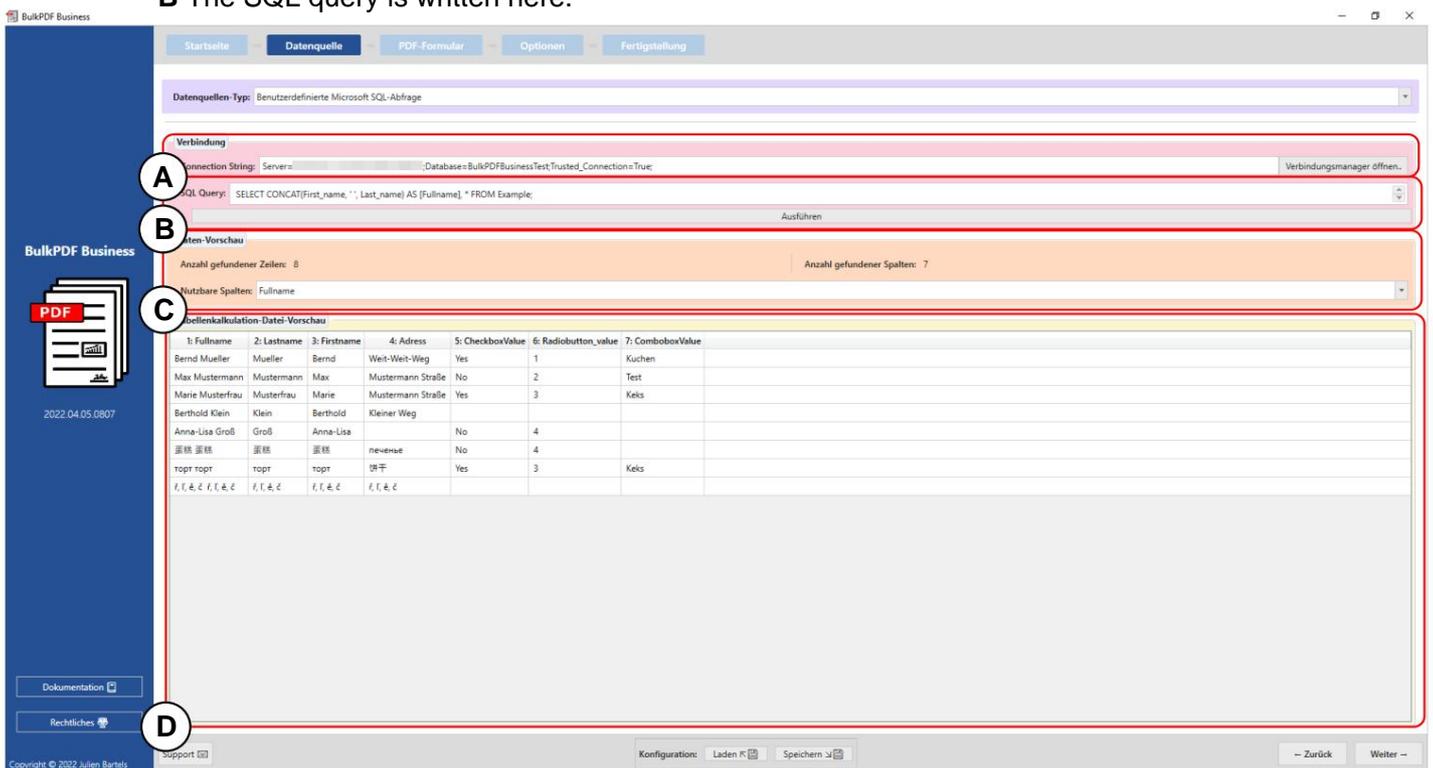
**C** At this point, the first 1000 recognized rows of the SQL table are displayed in order to check whether it was loaded as desired and the data was recognized.

### 3.2.4 Microsoft SQL Server Custom Query



**A** The "Connection string" is specified here.

**B** The SQL query is written here.



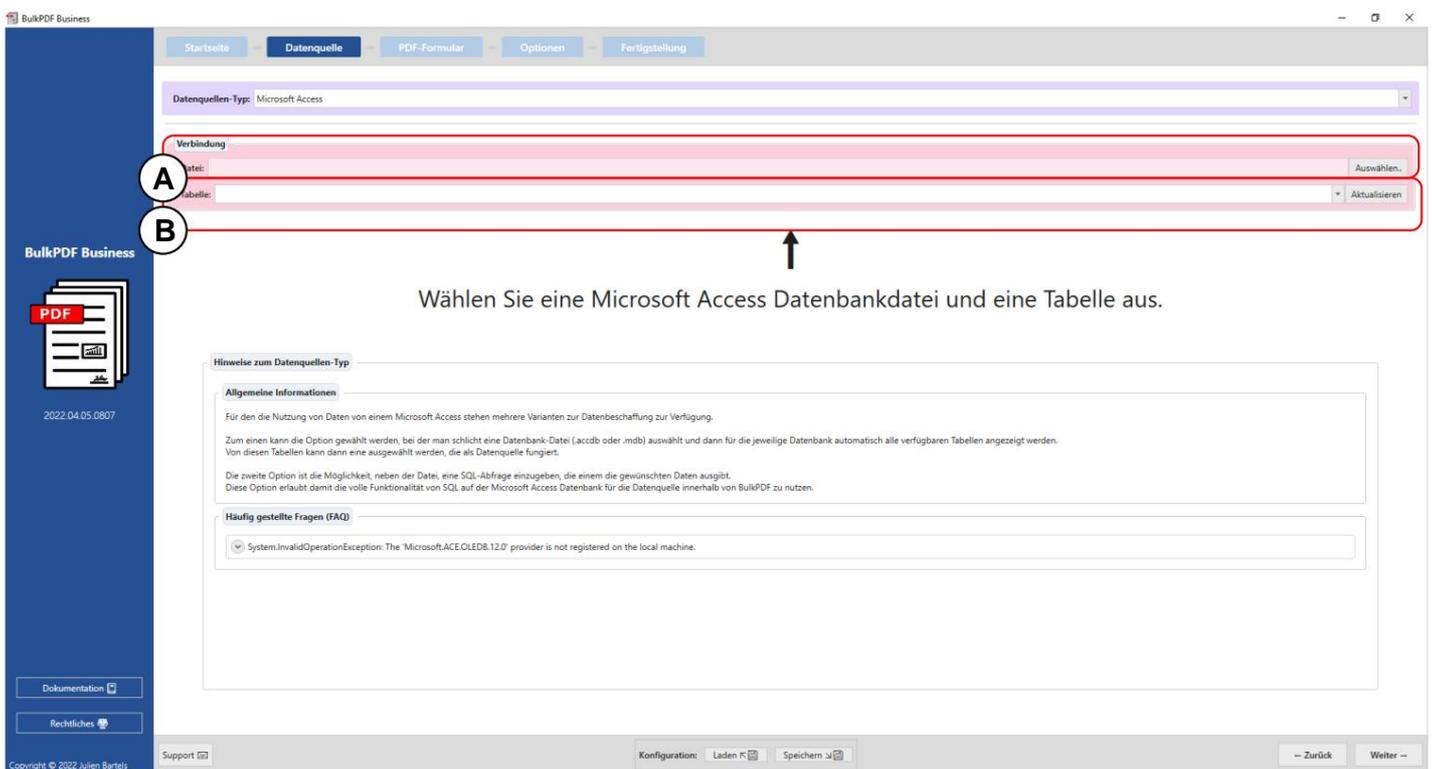
**A Connection string:** The “Connection string” is displayed here with the example “Server=SERVERADDRESS;Database=BulkPDFBusinessTest;Trusted\_Connection=True;”. For this data source, the “Database” section in the “Connection string” is important because only the tables from this selected database are listed.

**B** Here you can see the SQL query.

**C** The number of rows and columns found are displayed in the element group. A list of the columns found, which can be used in the next steps for data selection, is also shown for an overview and to check that the file is loaded correctly.

**D** At this point, the first 1000 recognized lines of the SQL query are displayed to check whether the file was loaded as desired and the data was recognized.

### 3.2.5 Microsoft Access



**A** A Microsoft Access database file can be loaded here.

**B** Selecting the table from the selected Microsoft Access database file.

Only data from one table can be used at a time in the program with this data source.

The screenshot shows the 'Datenquelle' (Data Source) configuration window in BulkPDF Business. The 'Datenquellen-Typ' is set to 'Microsoft Access'. The 'Verbindung' (Connection) section shows the file path '.MSAccess\Database1.accdb' and the selected table 'Tabelle1 (Kundendaten)'. The 'Daten-Vorschau' (Data Preview) section indicates 8 rows and 11 columns. The 'Tabellenkalkulation-Datei-Vorschau' (Table Calculation File Preview) table displays the first 8 rows of data.

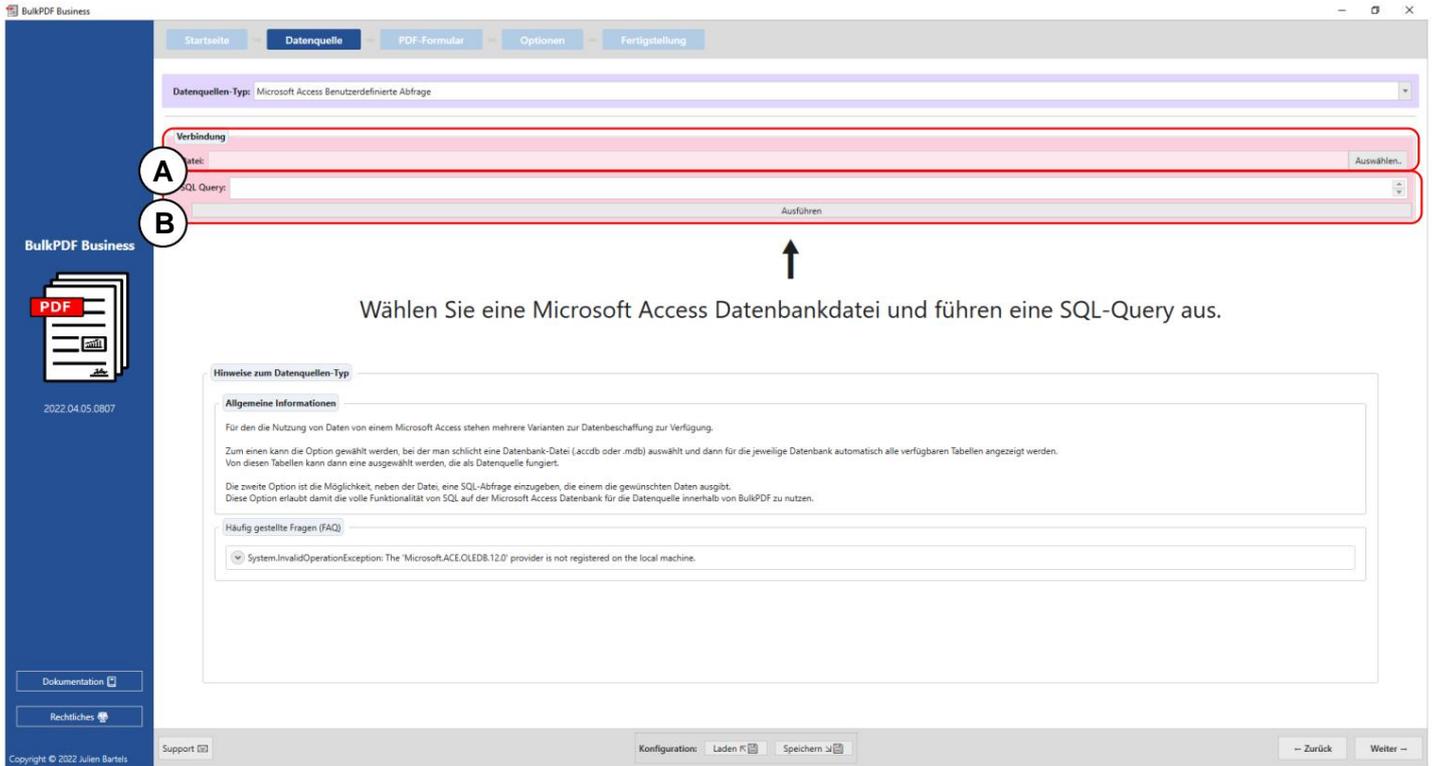
1: ID	2: Nachname (Textbox)	3: Vorname	4: Straße	5: Hausnummer	6: Postleitzahl	7: Ort	8: Geschlecht (Radio Button / Radiobox)	9: Umweltfreundliche Verpackung (Checkbox)	10: Zugehörige Branche (Listbox)	11: Derzeitige Tätigkeit (Combobox)
1	Mueller	Bernd	Weit-Weit-Weg	23	10178	Berlin	1	1	IT	Angestellter
2	Mustermann	Max	Mustermann Straße	5	80331	München	1	0	Industrial	Ehrenamtlicher
3	Musterfrau	Marie	Mustermann Straße	7	31515	Wunstorf	2	Yes	Cake-Factory	Freelancer
4	Klein	Berthold	Kleiner Weg	3	70173	Stuttgart	3	No	Tax	König von Deutschland
5	Groß	Anna-Lisa	Blumenweg	13	40210	Düsseldorf	3	Ja	Top secret	Ehrenamtlicher
6	蛋糕	蛋糕	饼干	17	34117	Kassel	2	是	Industrial	Ehrenamtlicher
7	торт	печенье		2	39104	Magdeburg	1	нет	Cake-Factory	Angestellter
8	ф, l, é, ç	הקליטה	い-55	37	24103	Θβαια	1	si	IT	Angestellter

**A** You can see the selected Microsoft Access database file and the selected table "Table 1 (customer data)".

**B** The element group displays the number of rows and columns found. A list of the columns found, which can be used in the next steps for data selection, is also shown for an overview and to check that the file is loading correctly.

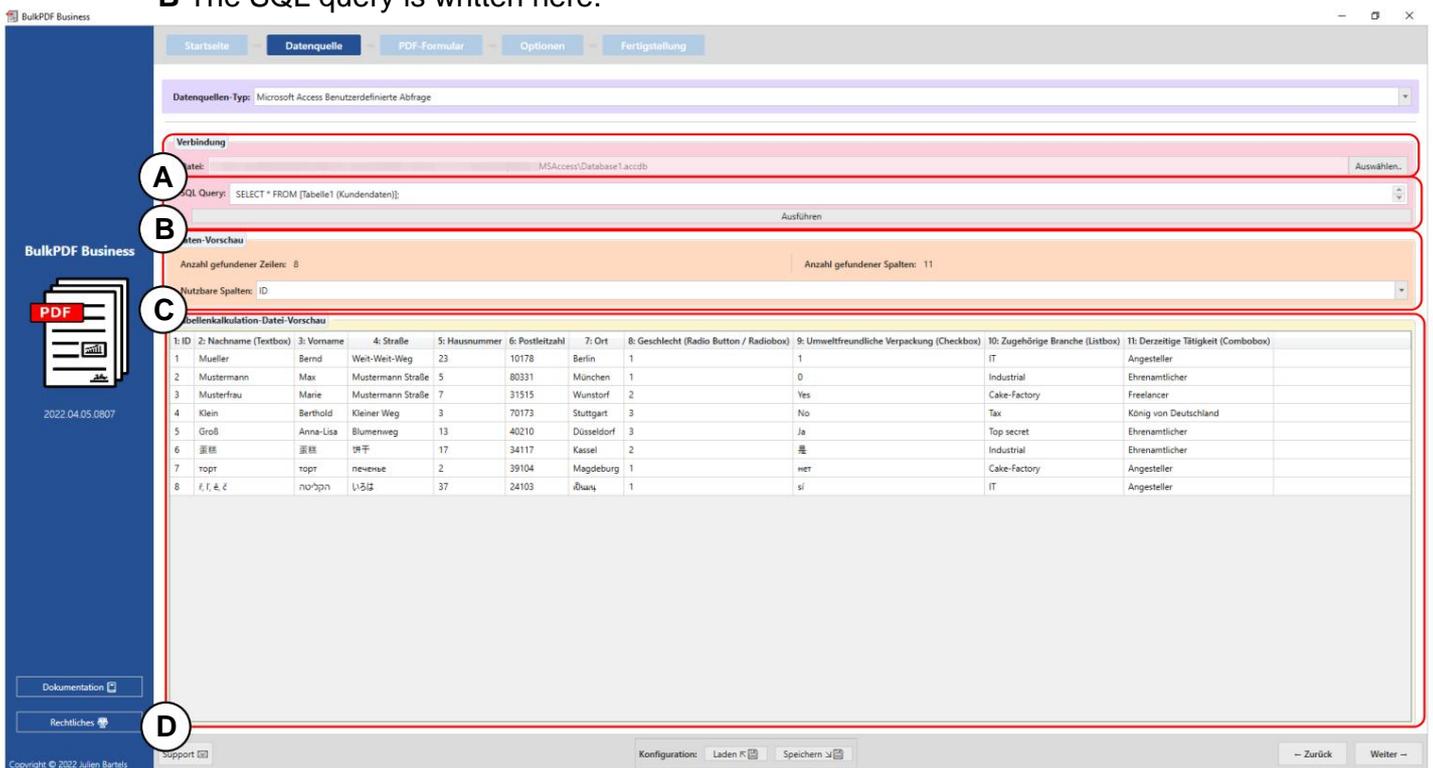
**C** At this point, the first 1000 recognized rows of the table are displayed to check whether it was loaded as desired and the data was recognized.

### 3.2.6 Microsoft Access Custom Query



**A** A Microsoft Access database file can be loaded here.

**B** The SQL query is written here.



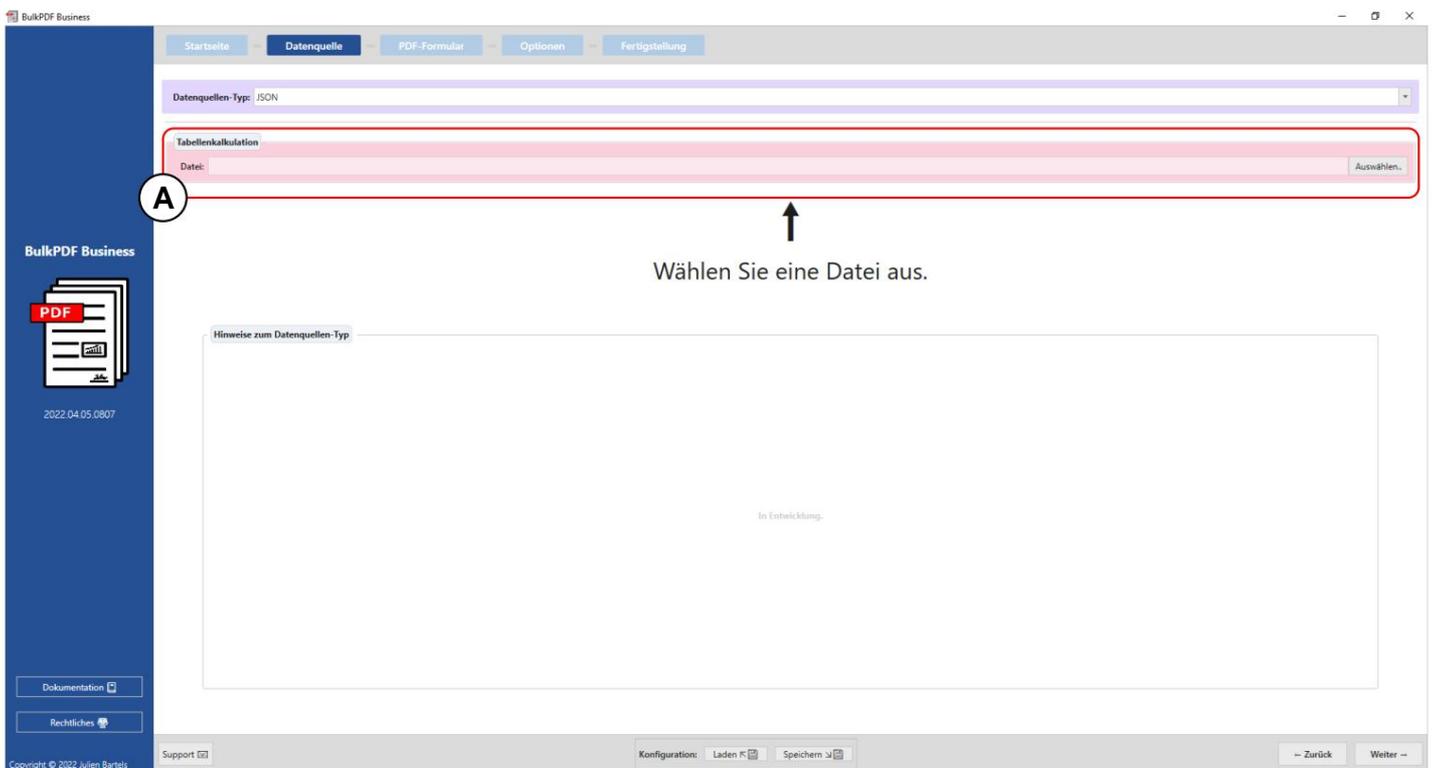
**A** The selected Microsoft Access database file is visible.

**B** Here you can see the SQL query.

**C** The number of rows and columns found are displayed in the element group. A list of the columns found, which can be used in the next steps for data selection, is also shown for an overview and to check that the file is loaded correctly.

**D** At this point, the first 1000 recognized lines of the SQL query are displayed to check whether the file was loaded as desired and the data were recognized.

### 3.2.7 JSON



**A** A JSON file can be loaded here.

The screenshot shows the BulkPDF Business software interface. The main window is titled 'BulkPDF Business' and has a navigation bar with 'Startseite', 'Datenquelle', 'PDF-Formular', 'Optionen', and 'Fertigstellung'. The 'Datenquelle' tab is active, showing a configuration for a JSON data source. A red box highlights the configuration area, with a circled 'A' pointing to the 'Datei:' field containing 'JSON/DocExample.json'. Below this, another red box highlights a summary area with a circled 'B', showing 'Anzahl gefundener Zeilen: 8', 'Anzahl gefundener Spalten: 6', and 'Änderungsdatum: 05.04.2022 13:06:43'. A third red box highlights a data preview table with a circled 'C'. The table has 6 columns: '1: Lastname', '2: Firstname', '3: Address', '4: CheckboxValue', '5: Radiobutton\_value', and '6: ComboboxValue'. The table contains 8 rows of data, including names like 'Mueller', 'Mustermann', and 'Musterfrau', and values like 'Yes', 'No', 'Kuchen', and 'Keks'. The interface also includes a sidebar with 'BulkPDF Business' and 'PDF' icons, a 'Dokumentation' button, and a 'Rechtliches' button. The footer shows 'Copyright © 2022 Julien Bartels' and 'Konfiguration: Laden', 'Speichern', 'Zurück', and 'Weiter' buttons.

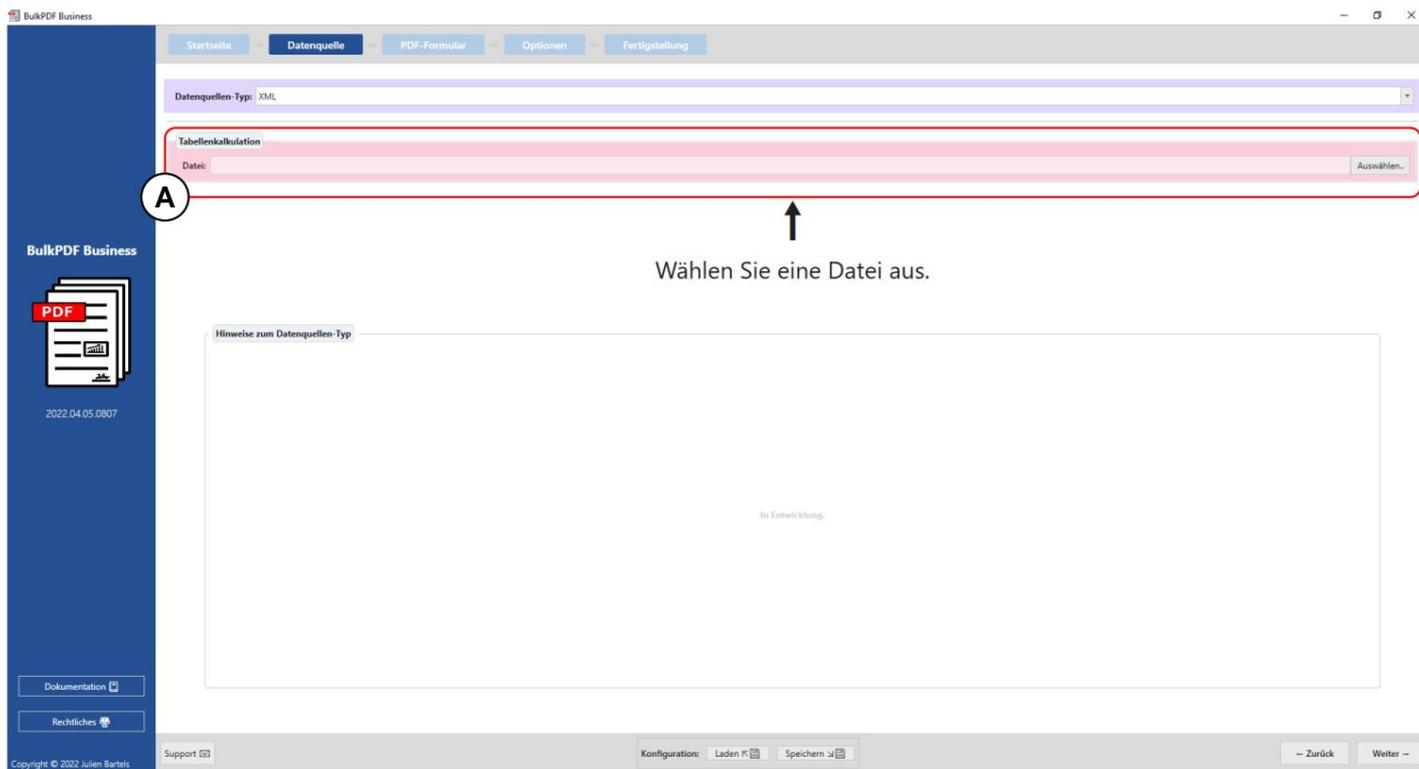
1: Lastname	2: Firstname	3: Address	4: CheckboxValue	5: Radiobutton_value	6: ComboboxValue
Mueller	Bernd	Weit-Weit-Weg	Yes	2	Kuchen
Mustermann	Max	Mustermann Straße	No	1	Test
Musterfrau	Marie	Mustermann Straße	Yes	3	Keks
Klein	Berthold	Kleiner Weg			
Groß	Anna-Lisa		No	4	
蛋糕	蛋糕	neverse	No	4	
toprt	toprt	饼干	Yes	3	Keks
f, f, & c	f, f, & c	f, f, & c			

**A File:** Shows a selected JSON file.'

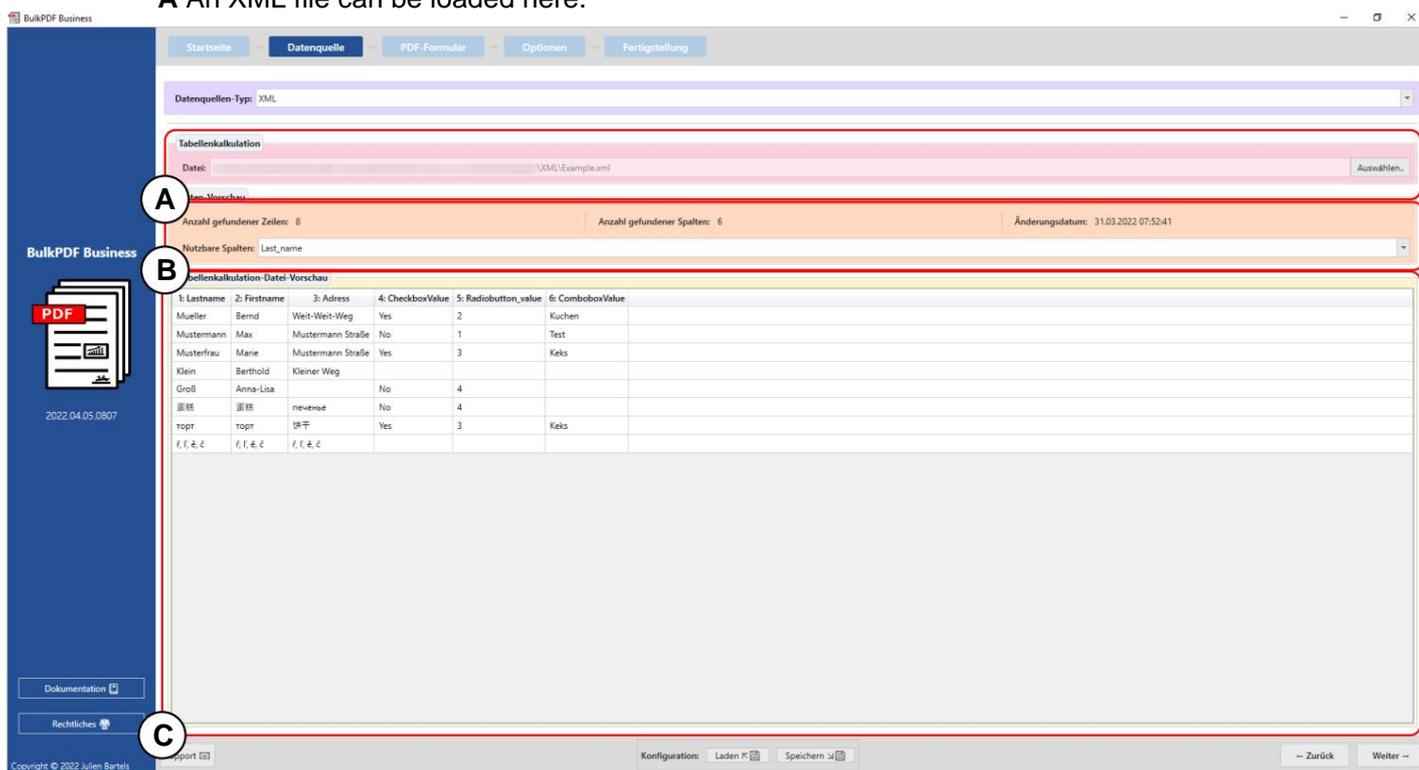
**B Data preview:** The number of rows and columns found are displayed in the element group. A list of the columns found, which can be used in the next steps for data selection, is also shown for an overview and to check that the file is loading correctly.

**C Data preview:** The first 1000 recognized lines of the file to check whether the file was loaded as intended and the data was recognized.

### 3.2.8 XML



A An XML file can be loaded here.



A File: Shows a selected XML file.'

**B Data preview:** In the element group, the number of found rows and columns found are displayed. A list of the found Columns that can be used in the next steps for data selection are shown for an overview and to check that the file is loading correctly.

**C Data preview:** The first 1000 recognized lines of the File is displayed to check whether the file was loaded as desired and the data was recognized.

### 3.2.9 Spreadsheet / Excel (Swapped columns and rows)

This data source type behaves similarly to the normal "spreadsheet / Excel" data source types (see section 3.2.2) with the difference that Loading the columns and rows are swapped. This behavior can be used, for example, A spreadsheet file must be loaded that has the following structure:

<b>First name</b>	Bernd	Max	Mary	...
<b>Last name</b>	Mueller	Mustermann	Model woman	...
<b>Address</b>	Far-Far-Away	Mustermann Street	Mustermann Street	...
...	...	...	...	...

### 3.2.10 MySQL/MariaDB Server

**BulkPDF Business**

Startseite | **Datenquelle** | PDF-Formular | Verbleibende Optionen | Fertigstellung

Datenquellen-Typ: MySQL / MariaDB Tabellenauswahl

**A** Verbindung

Verbinden

**B** Verbinde

Stellen Sie eine SQL-Verbindung her und wählen eine Tabelle aus.

**Hinweise zum Datenquellen-Typ**

Für die Verwendung von Daten aus einem MySQL- oder MariaDB-Server stehen mehrere Varianten zum Datenabruf zur Verfügung.

Zum einen kann die Option gewählt werden, bei der man einfach einen "Connection String" eingibt und dann automatisch alle verfügbaren Tabellen der jeweiligen Datenbank angezeigt werden. Aus diesen Tabellen kann dann eine ausgewählt werden, die als Datenquelle fungieren soll. Beispiele für gültige Verbindungsstrings finden Sie in der Dokumentation.

Die zweite Option ist die Möglichkeit, neben dem Verbindungsstring einfach eine SQL-Abfrage einzugeben, die die gewünschten Daten zurückgibt. Mit dieser Option können Sie die volle Funktionalität von SQL auf dem Server für die Datenquelle in BulkPDF nutzen.

Dokumentation

Rechtliche Hinweise

Copyright © 2023  
Tadeltsch UG (haftungsbeschränkt)

Support

Konfiguration: Laden | Speichern

– Zurück Weiter –

**A Connection string:** At this point the “Connection string” with the example ,Server=SERVER ADDRESS;Database=BulkPDFBusinessTest;User Id=myUsername;Password=myPass The “Database” section in the “Connection string” is of particular importance, as only the tables of the specified database are listed.

**B** Here the selection of the table from the specified in the “Connection string” takes place. database. Please note that only data from a single table can be used at the same time within this data source.

The screenshot shows the BulkPDF Business software interface. The main window is titled "Datenquelle" and contains several sections:

- Verbindung (A):** A section for configuring the connection string. The text "Connection String: Server=localhost;Database=BulkPDFBusinessTest;User ID=root;Password=" is visible. A table named "Ex-ample" is selected.
- Daten-Vorschau (B):** A section showing the number of identified rows and columns. It displays "Anzahl gefundener Zeilen: 8" and "Anzahl gefundener Spalten: 6". Below this, a list of recognized columns is provided: "Fundene nutzbare Spalten: Last\_name".
- Tabellenkalkulation-Datei-Vorschau (C):** A section displaying the first 1000 rows of the SQL table. The table has 6 columns: Lastname, Firstname, Address, CheckboxValue, Radiobutton\_value, and ComboboxValue. The data is as follows:
 

1: Lastname	2: Firstname	3: Address	4: CheckboxValue	5: Radiobutton_value	6: ComboboxValue
Mueller	Bernd	Weit-Weit-Weg	Yes	1	Kuchen
Mustermann	Max	Mustermann Straße	No	2	Test
Musterrfrau	Marie	Mustermann Straße	Yes	3	Keks
Klein	Berthold	Kleiner Weg			
Groß	Anna-Lisa		No	4	
蛋糕	蛋糕	ne-ense	No	4	
topr	topr	饼干	Yes	3	Keks
ف.ت.ك.د	ف.ت.ك.د	ف.ت.ك.د			

**A** Here you can see the entered “Connection string” and the selected table “Ex-ample”.

**B** This area shows the number of identified rows and columns. In addition, a list of the recognized columns is provided, which can be used in the next steps for data selection.

**C** This section displays the first 1000 rows of the SQL table. This allows you to check whether the table has been loaded correctly and the Data was adequately recognized.

### 3.2.11 MySQL/MariaDB Server Custom Query

**A** The "Connection string" is entered here.

**B** The SQL query is formulated here.

Geben sie eine Connection-String sowie eine SQL-Query und drücken folgend auf "Ausführen".

Hinweise zum Datenquellen-Typ

Für die Verwendung von Daten aus einem MySQL- oder MariaDB-Server stehen mehrere Varianten zum Datenabruf zur Verfügung.

Zum einen kann die Option gewählt werden, bei der man einfach einen "Connection String" eingibt und dann automatisch alle verfügbaren Tabellen der jeweiligen Datenbank angezeigt werden. Aus diesen Tabellen kann dann eine ausgewählt werden, die als Datenquelle fungieren soll. Beispiele für gültige Verbindungsstrings finden Sie in der Dokumentation.

Die zweite Option ist die Möglichkeit, neben dem Verbindungsstring einfach eine SQL-Abfrage einzugeben, die die gewünschten Daten zurückgibt. Mit dieser Option können Sie die volle Funktionalität von SQL auf dem Server für die Datenquelle in BulkPDF nutzen.

**A** The "Connection string" is entered here.

**B** The SQL query is formulated here.

**A** The "Connection string" is entered here.

**B** The SQL query is formulated here.

**C** The results of the query are displayed in a table.

**D** The "Ausführen" button is highlighted.

1: Lastname	2: Firstname	3: Address	4: CheckboxValue	5: Radiobutton_value	6: ComboboxValue
Mueller	Bernd	Weit-Weit-Weg	Yes	1	Kuchen
Mustermann	Max	Mustermann Straße	No	2	Test
Musterfrau	Marie	Mustermann Straße	Yes	3	Keks
Klein	Berthold	Kleiner Weg			
Groß	Anna-Lisa		No	4	
蛋糕	蛋糕	ne-verse	No	4	
topr	topr	饼干	Yes	3	Keks
f, f, é, é	f, f, é, é	f, f, é, é			

**A Connection string:** At this point, the "Connection string" can be viewed with the example ,Server=SERVERADDRESS;Database=BulkPDFBusinessTest;User Id=myUsername;Password=myPass. For this data source, the "Database" section in the "Connection string" is important because only the tables from this selected database are listed.

**B** Here you can see the formulated SQL query.

**C** This section displays the number of rows and columns found. A list of the recognized columns is also visible, which can be used in subsequent steps when selecting data.

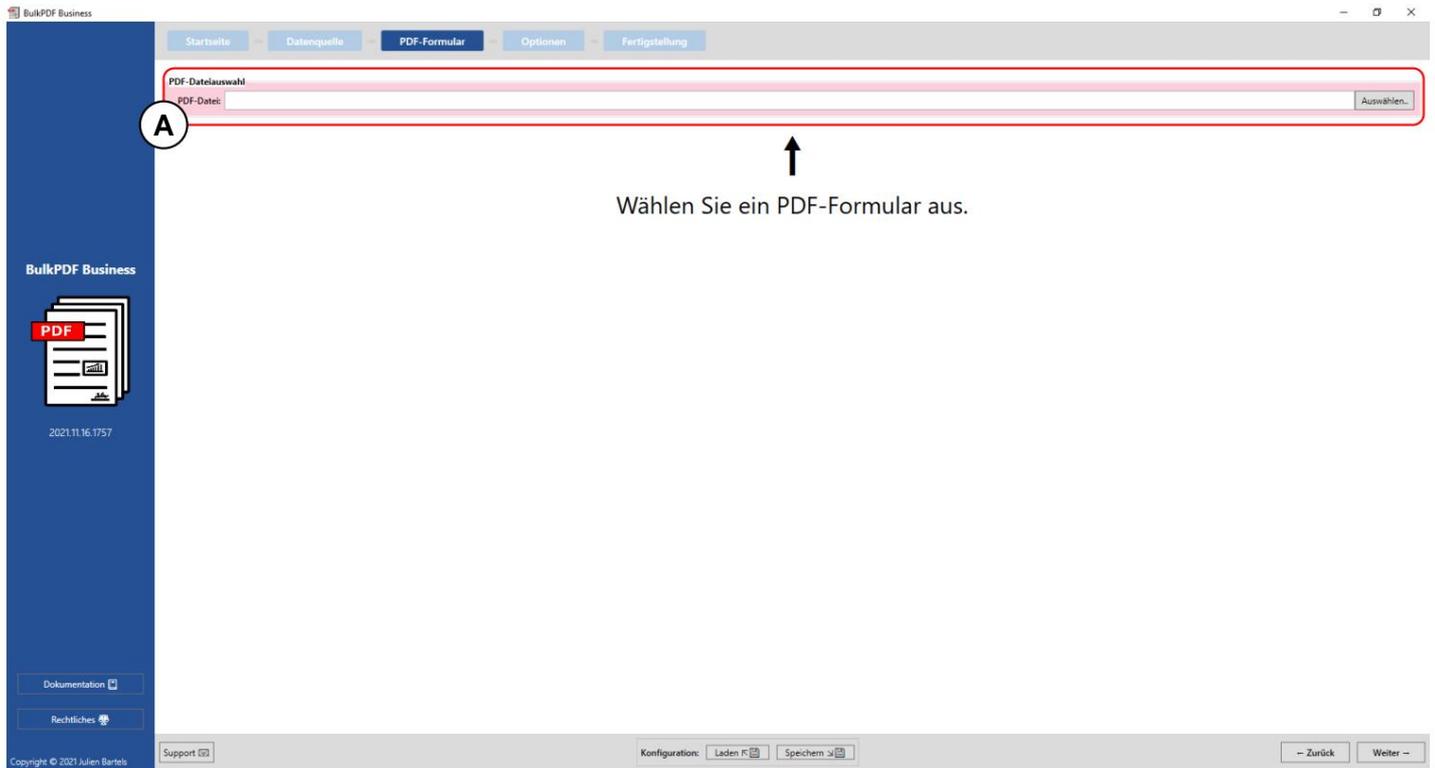
**D** This area displays the first 1000 lines of the SQL query. This is to check whether the query was loaded as intended and the data has been correctly identified.

### **3.3 PDF form**

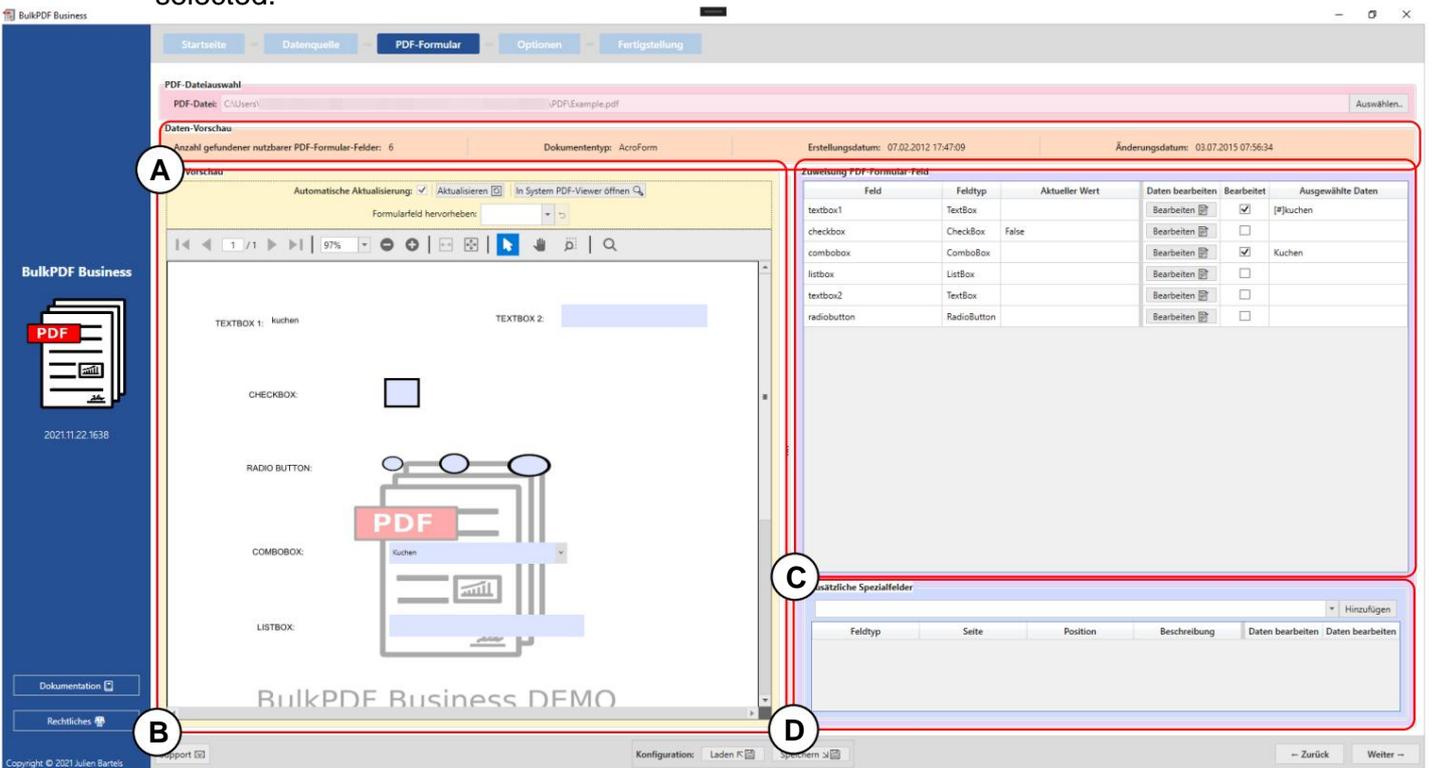
In this step, the data from the data source is assigned to the fields of the PDF form. This is supported by a live preview of the PDF with the data from the first line of the data source. Furthermore, special fields such as QR codes, barcodes, hyperlinks, images, etc. can be added to the PDF document.

the.

### 3.3.1 Overview



**A PDF file selection:** In this element group, the PDF form to be filled out can be selected.



**A** This element group shows the "number of usable PDF form fields found", the document type or document format (AcroForm or XFA), the creation date and the modification date. The creation date and modification date are only displayed if they could be determined.

**B PDF Preview:** The group of elements contains the preview of the PDF form. Any change to the assignment of data to the PDF will be reflected here with the first row of the data source to provide a better understanding of the Changes. Likewise, the Functionality group to highlight form fields that may have been poorly named by the author of the PDF form, so that you can see which field is hidden behind the cryptic name. (For more information on PDF preview, see section 3.3.2.)

**C Assignment of PDF form field:** This table lists all form fields found in the PDF form. The order depends on the order in which the author last edited the form fields

which in most cases corresponds to the vertical order of the fields in the PDF itself corresponds, but this does not always have to be the case. The individual lines can be the data assignment of the fields can be changed. (For more information, see for this element group see section 3.3.3.)

**D Additional special fields:** In this element group, special fields such as Barcodes, hyperlinks, images, etc., can be added to the document. How Even with the form fields that are already included in the document, it is possible to dynamically assign data from the data source to the added special fields. (See section 3.3.14 for more information .)

### 3.3.2 PDF preview

The screenshot shows the BulkPDF Business software interface. The top navigation bar includes 'Startseite', 'Datenquelle', 'PDF-Formular', 'Optionen', and 'Fertigstellung'. The main area is divided into several sections:

- PDF-Datelauswahl:** Shows the PDF file path and an 'Auswählen...' button.
- Daten-Vorschau:** Displays document statistics like 'Anzahl gefundener nutzbarer PDF-Formular-Felder: 6' and 'Dokumententyp: Acrobat'.
- PDF-Vorschau:** A central preview area showing a PDF form with fields like 'TEXTBOX 1: kuchen', 'CHECKBOX:', 'RADIO BUTTON:', 'COMBOBOX:', and 'LISTBOX:'. A toolbar above it includes a zoom slider (97%), a search icon, and a button labeled 'In System PDF-Viewer öffnen' (C).
- Zuweisung PDF-Formular-Feld:** A table mapping form fields to data values.
- Zusätzliche Spezialfelder:** A section for additional special fields.

Annotations in the image:

- A:** A yellow box highlights the 'Automatische Aktualisierung' checkbox and the 'Aktualisieren' button.
- B:** A red box highlights the toolbar area above the PDF preview.
- C:** A blue box highlights the 'In System PDF-Viewer öffnen' button.

**A** At this point, the automatic update of the PDF preview can be disabled

Changes to the data assignment can be deactivated if this is necessary for reasons of Computer performance appears necessary. Furthermore, the update can be manually the preview or the preview PDF can be opened in the standard PDF viewer stored in Windows (for changing the standard PDF viewer, see section 7.11). The element group also offers a function to open a form field after selecting its name.

field in color. This function is especially useful if the author of the PDF form, the form fields were not clearly named and only names such as "Text Field 1" were given instead of, for example, "Customer Address".

**B** Here you will find functions for the PDF preview, such as zoom, a search etc.

**C** This is where the preview PDF itself is located. Any changes to this preview are temporary and will be discarded the next time the preview is updated. If you really want to save the preview, you can do so by clicking the button "Open in system PDF viewer". Depending on the standard PDF viewer stored in your operating system, you can permanently save the PDF preview on your system.

### 3.3.3 Assigning data to PDF form fields

The screenshot shows the 'Zuweisung PDF-Formular-Feld' window in BulkPDF Business. The main table lists the following fields:

Feld	Feldtyp	Aktueller Wert	Daten bearbeiten	Bearbeitet	Ausgewählte Daten
textbox1	TextBox			<input checked="" type="checkbox"/>	Kuchen
checkbox	CheckBox	else		<input type="checkbox"/>	Kuchen
combobox	ComboBox			<input checked="" type="checkbox"/>	Kuchen
listbox	ListBox			<input type="checkbox"/>	
textbox2	TextBox			<input type="checkbox"/>	
radiobutton	RadioButton			<input type="checkbox"/>	

The columns are labeled A through F, corresponding to the descriptions below:

- A Field:** This column displays the names of the form fields.
- B Field Type:** This column shows the field types of the individual form fields, such as e.g. text fields, checkboxes, radio buttons, combo boxes, list boxes, etc.
- C Current Value:** Shows the current content of the form field if no Processing is carried out by BulkPDF Business.
- D Edit data:** This button takes you to the individual configuration windows for the various form fields and their different field types.
- E Edited:** Shows whether the data assignment in BulkPDF Business has been edited for the form field.
- F Selected data:** This column is a representation of the assigned Data.

**A Field:** This column displays the names of the form fields.

**B Field Type:** This column shows the field types of the individual form fields, such as e.g. text fields, checkboxes, radio buttons, combo boxes, list boxes, etc.

**C Current Value:** Shows the current content of the form field if no Processing is carried out by BulkPDF Business.

**D Edit data:** This button takes you to the individual configuration windows for the various form fields and their different field types.

**E Edited:** Shows whether the data assignment in BulkPDF Business has been edited for the form field.

**F Selected data:** This column is a representation of the assigned Data.

**Write protection** This column indicates whether write protection has been applied to the field.

**Automatic field data assignment** Under the normal assignment table there is the button "Automatic field data assignment". This button automatically assigns the appropriate columns from the data source to the fields. It compares how many characters there are between the name of the form field and the individual column name from the data source. The column name with the smallest difference is then taken. The maximum difference that is allowed can be specified in the text field "Maximum name difference for assignment" next to the button. The default value is "2". This means that, for example, the field "Customer" would be assigned the column "Customa", since only two changes are necessary to make "Customer" into "Cus-tom". These changes are removing the "r" at the end of the sentence and replacing the "e" with an "a". (See <https://de.wikipedia.org/wiki/Levenshtein-Distanz>)

**Practical tip from a user:** If the automatic assignment with the default value 2 worked, try it with 1 and 0. To see which fields may not have been automatically recognized, scroll please go to the end of the field list.

### 3.3.4 Textbox & General Field Data Selection

The screenshot shows the 'Datenzuweisung' (Data Assignment) dialog box in the BulkPDF Business software. The dialog box is overlaid on the main application window, which displays a list of PDF form fields. The dialog box contains several options for data assignment, with red circles and lines highlighting specific elements labeled A through F. A table on the right side of the dialog box shows the mapping of data sources to form fields.

Wert	Daten bearbeiten	Bearbeitet	Ausgewählte Daten
Textbox1	<input type="checkbox"/>		
Textbox2	<input type="checkbox"/>		
Textbox3	<input type="checkbox"/>		
Textbox4	<input type="checkbox"/>		
Textbox5	<input type="checkbox"/>		

**A** The form field name and the field type, such as text fields, check boxes, radio buttons, combo boxes, list boxes, etc., are displayed here.

**B Write protection:** This box can be used to write protect the formula field must be activated. This means that this field is deleted after processing can no longer be processed by BulkPDF Business. The data that BulkPDF written in the field are thus fixed and unchangeable. (For an example and for further information see section 3.3.7).

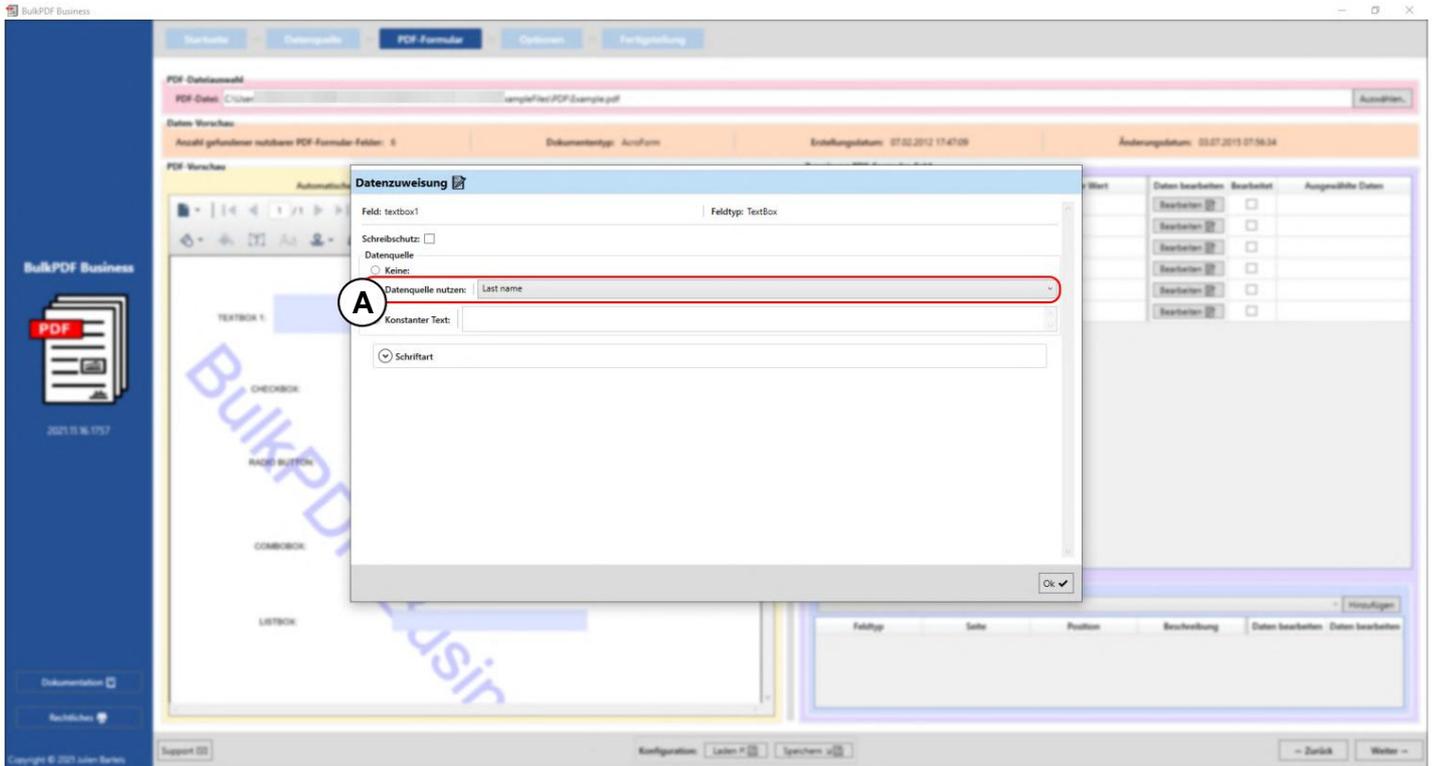
**C No data assignment:** If this option is used, the form field retains the content it already has.

**D Use data source:** With this option, a column from the data source The field will then be filled with the value from this column filled. (See section 3.3.5 for more information).

**E Constant text:** This option allows you to enter a constant text in the form field that is ultimately the same for all completed PDF documents. (See section 3.3.6 for further information).

**F Font:** Here you can enter the font of the form field (see see section 3.7.4).

### 3.3.5 Use data source for form field



Here you can see that the user is currently in the editing window for the field "textbox1" and the data source is being used for this (see A).

The data source column "Last name" is selected for the data source, which means that the field is filled with the data from this column.

The screenshot displays the BulkPDF Business software interface. The top navigation bar includes 'Startseite', 'Datenquelle', 'PDF-Formular', 'Optionen', and 'Fertigstellung'. The main workspace is divided into a preview area (left) and a configuration table (right).

**PDF-Vorschau (Left):** Shows a preview of the PDF form. The first text box is labeled 'TEXTBOX 1: Mueller'. Other fields include 'TEXTBOX 2', 'CHECKBOX', 'RADIO BUTTON', 'COMBOBOX', and 'LISTBOX'. A red circle 'A' highlights the 'Mueller' value.

**Zuweisung PDF-Formular-Feld (Right):** A table mapping form fields to data source columns. A red circle 'B' highlights the 'Last name' column.

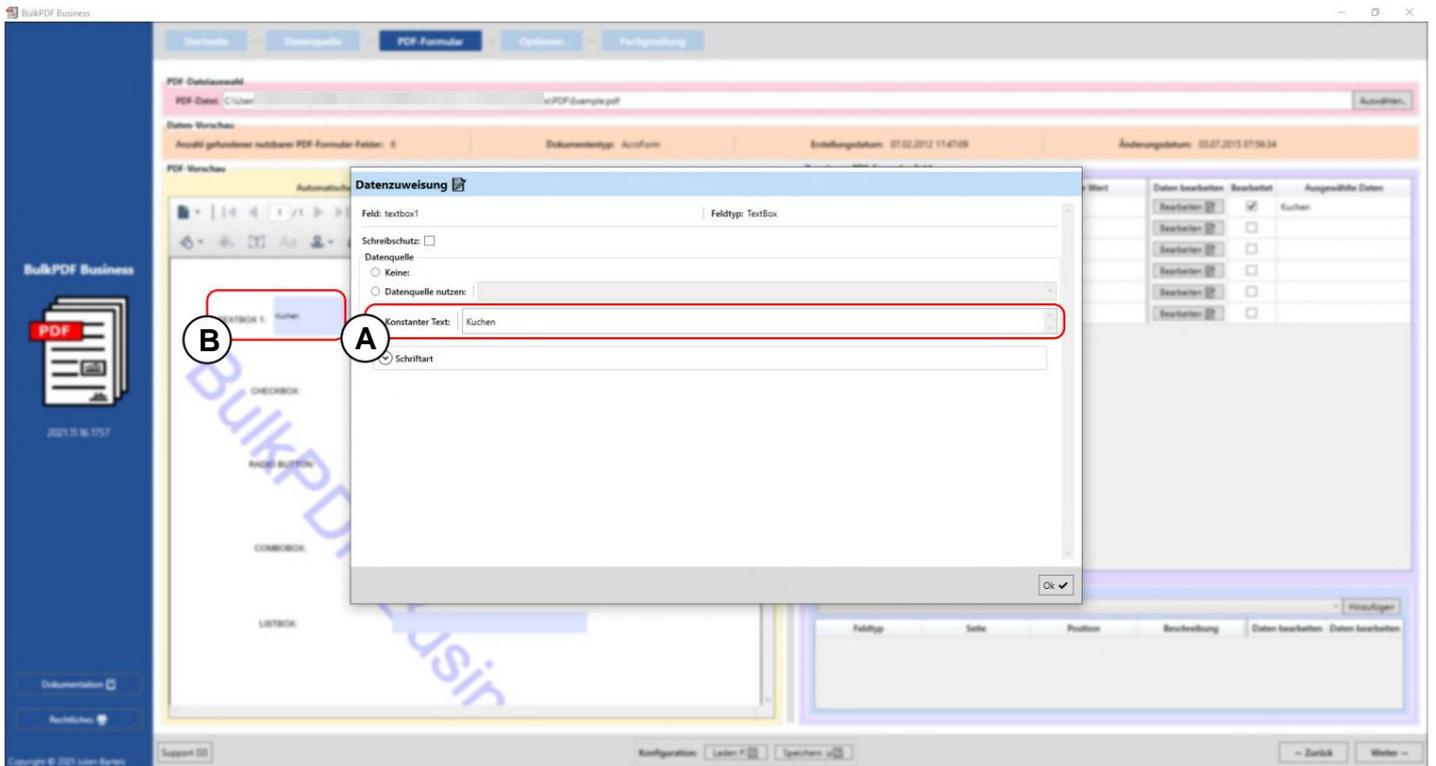
Feld	Feldtyp	Aktueller Wert	Daten bearbeiten	Bearbeitet	Ausgewählte Daten
box1	TextBox		Bearbeiten	<input checked="" type="checkbox"/>	Last name
box	CheckBox	False	Bearbeiten	<input type="checkbox"/>	
combobox	ComboBox		Bearbeiten	<input type="checkbox"/>	
listbox	ListBox		Bearbeiten	<input type="checkbox"/>	
textbox2	TextBox		Bearbeiten	<input type="checkbox"/>	
radiobutton	RadioButton		Bearbeiten	<input type="checkbox"/>	

The bottom status bar shows 'Konfiguration: Laden', 'Speichern', and navigation buttons 'Zurück' and 'Weiter'.

After the editing window has been closed, the PDF preview updates automatically and shows the completed PDF form with the data from the first line of the data source for the changed configuration. This can be seen here marked at **A**. The value or content of the first line of the “Last name” column was filled into the “textbox1” form field, which in this case is “Mueller”.

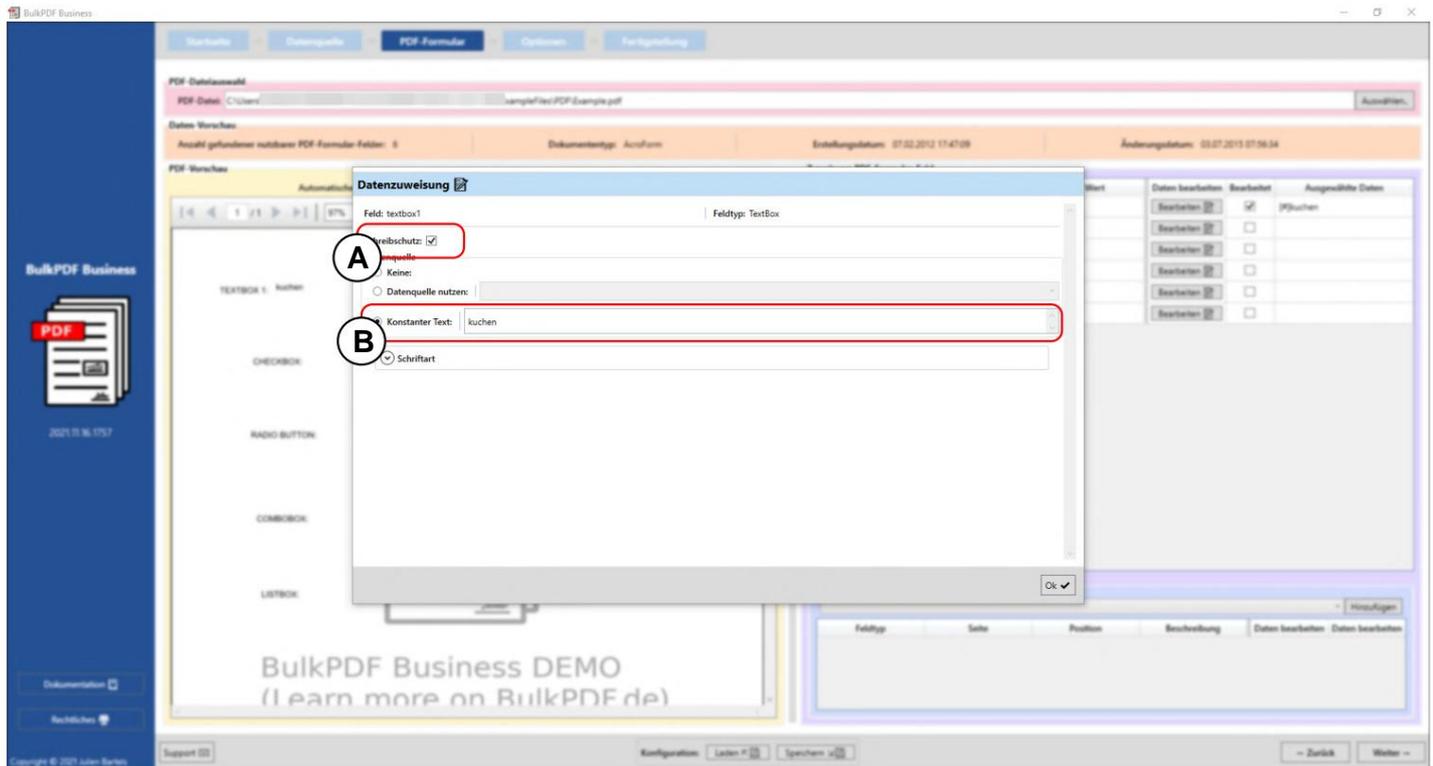
The fact that the form field was manually edited in BulkPDF Business can also be seen in **B**, where the “Edited” column is now marked and a representation of the selected data can be seen.

### 3.3.6 Set constant text for form field

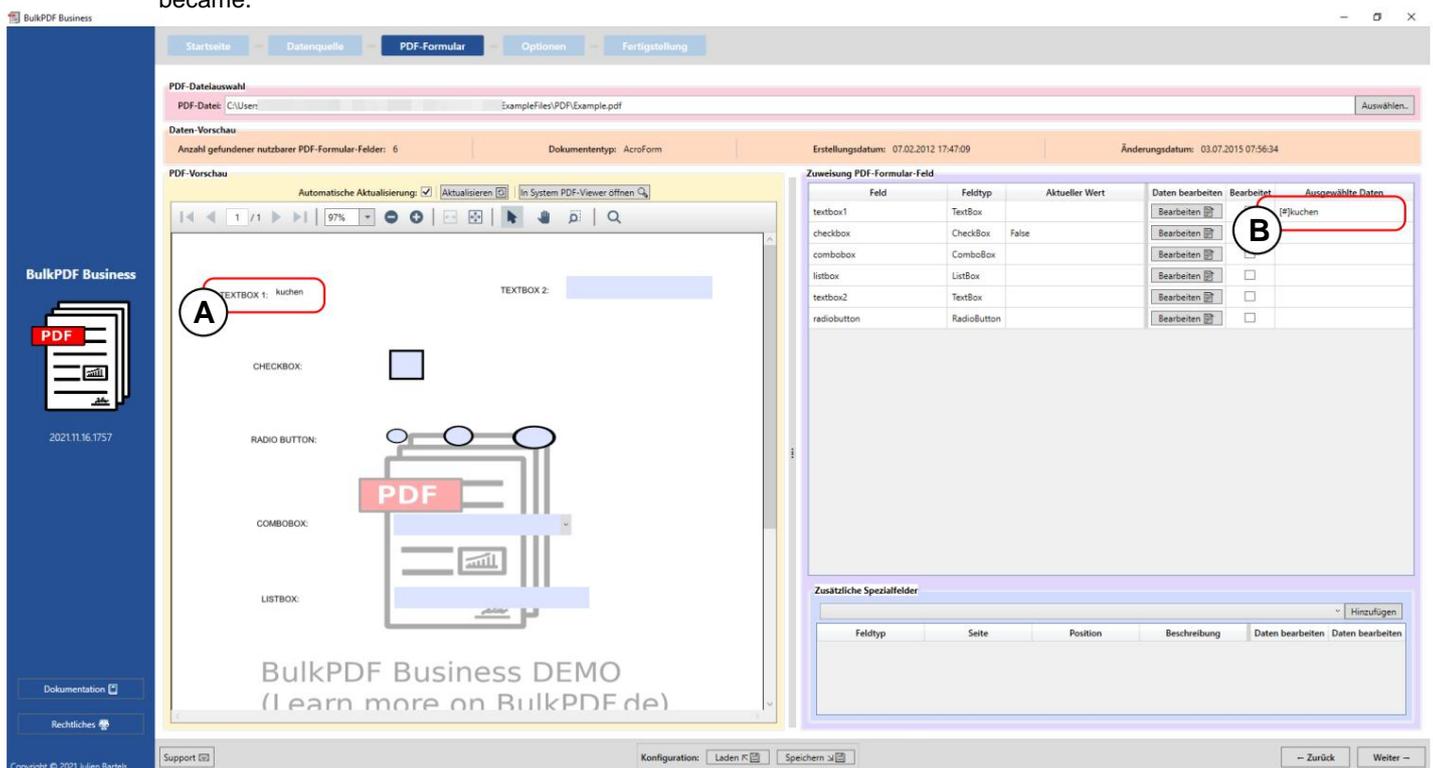


The constant behaves in the same way as "Use data source" (see section 3.3.5) with the difference that the content that is filled into the form field is the same for all documents, regardless of the data source. This can be seen in A, where the value "Cake" was entered for the form field "textbox1". The constant value can already be seen in the background in B in the field.

### 3.3.7 Write protection on individual form fields



In this example you can see that a check mark has been placed in the write protection box **(A)** and that the write protection has been selected for the form field "textbox1". In **B** you can see that the constant text "kuchen" has been set for the data. became.



**A** Here you can see that the “textbox1” form field can no longer be edited and the content of the field now contains the constant text “cake”.

**B** When representing the selected data you can see the constant text “kuchen”.

### 3.3.8 Date formatting for form fields

To explain date formatting in form fields, a short example is shown below:

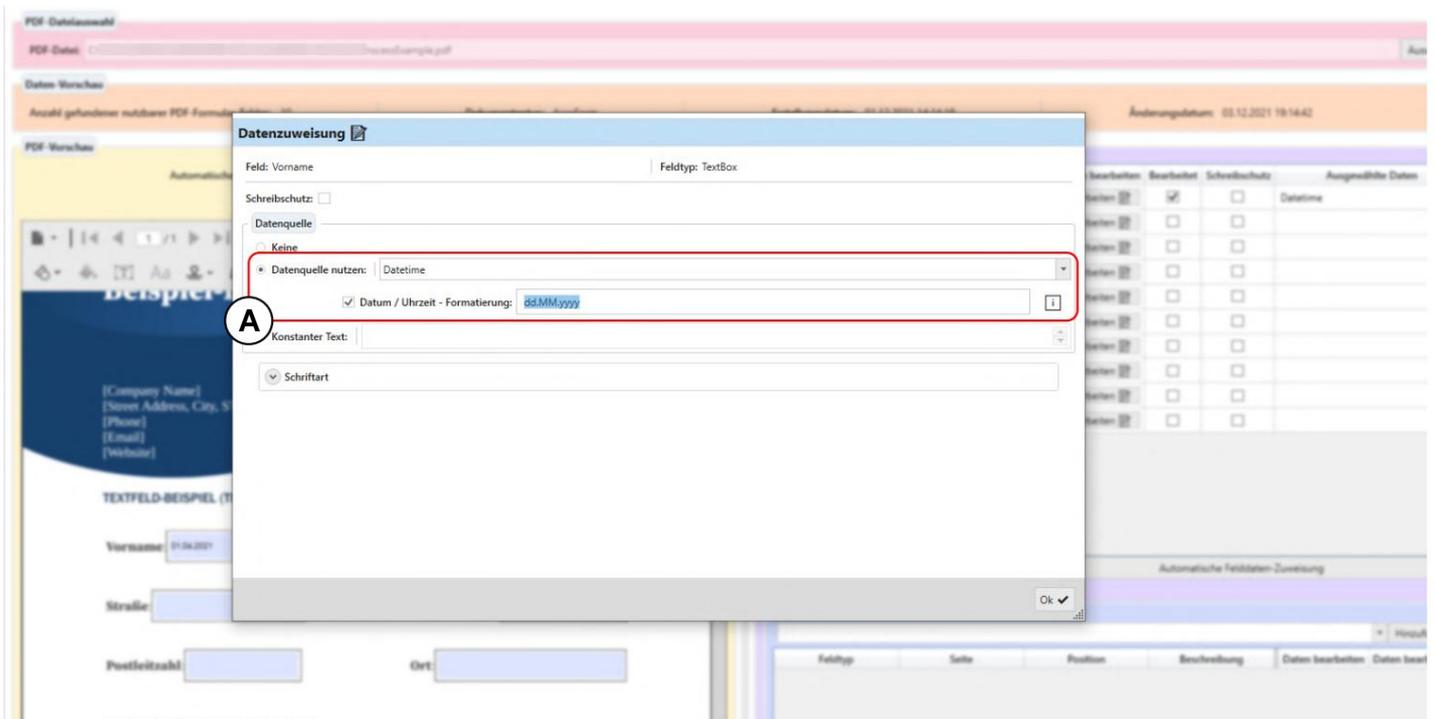
The screenshot shows a configuration interface for a data source. It is divided into several sections:

- Datenquellen-Typ:** Tabellenkalkulation / Excel
- Tabellenkalkulation:**
  - Tabellenkalkulation-Datei: C:\... Bulk
  - Tabelle: Table1
- Daten-Vorschau:**
  - Anzahl gefundener Zeilen: 4
  - Gefundene nutzbare Spalten: Datetime
- Tabellenkalkulation-Datei-Vorschau:**

1: Datetime
01.04.2021 00:00:00
15.01.2022 15:04:07
15.06.2009 13:45:30
2009-06-15T13:45:30

A red box highlights the preview table, and a circled 'A' is placed next to it.

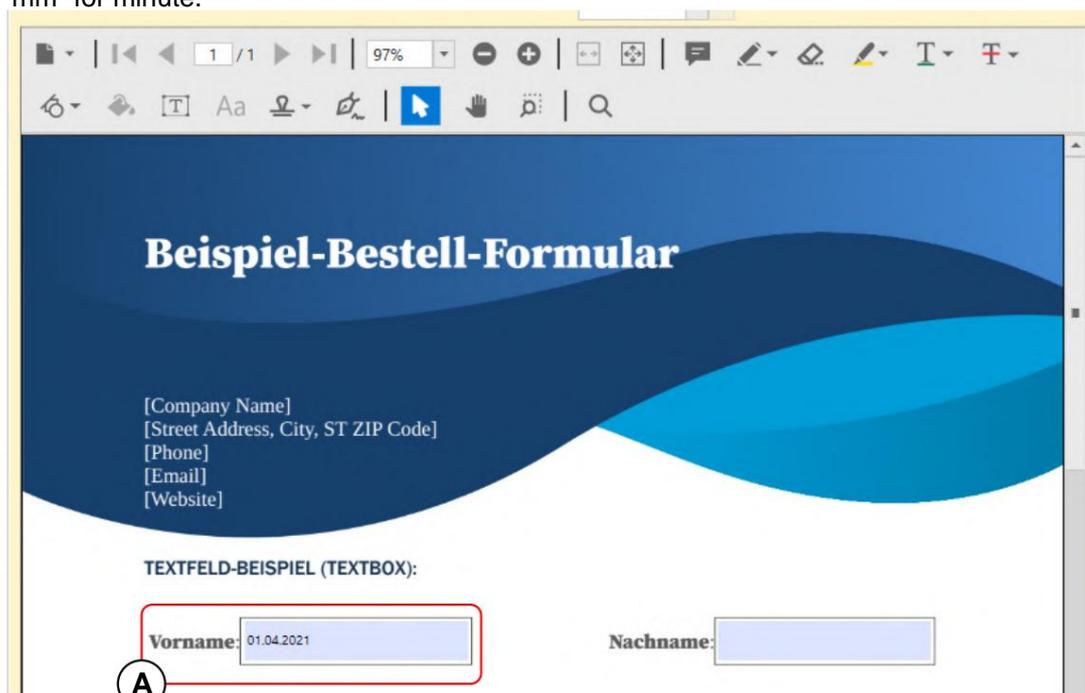
**A** Here are various data formats that are recognized as dates, among other things. to see that.



**A** The use of the data source with the table column "Date-time" and the date formatting field was specified here. This input field allows you to specify a date and/or time as the desired formatting of the data.

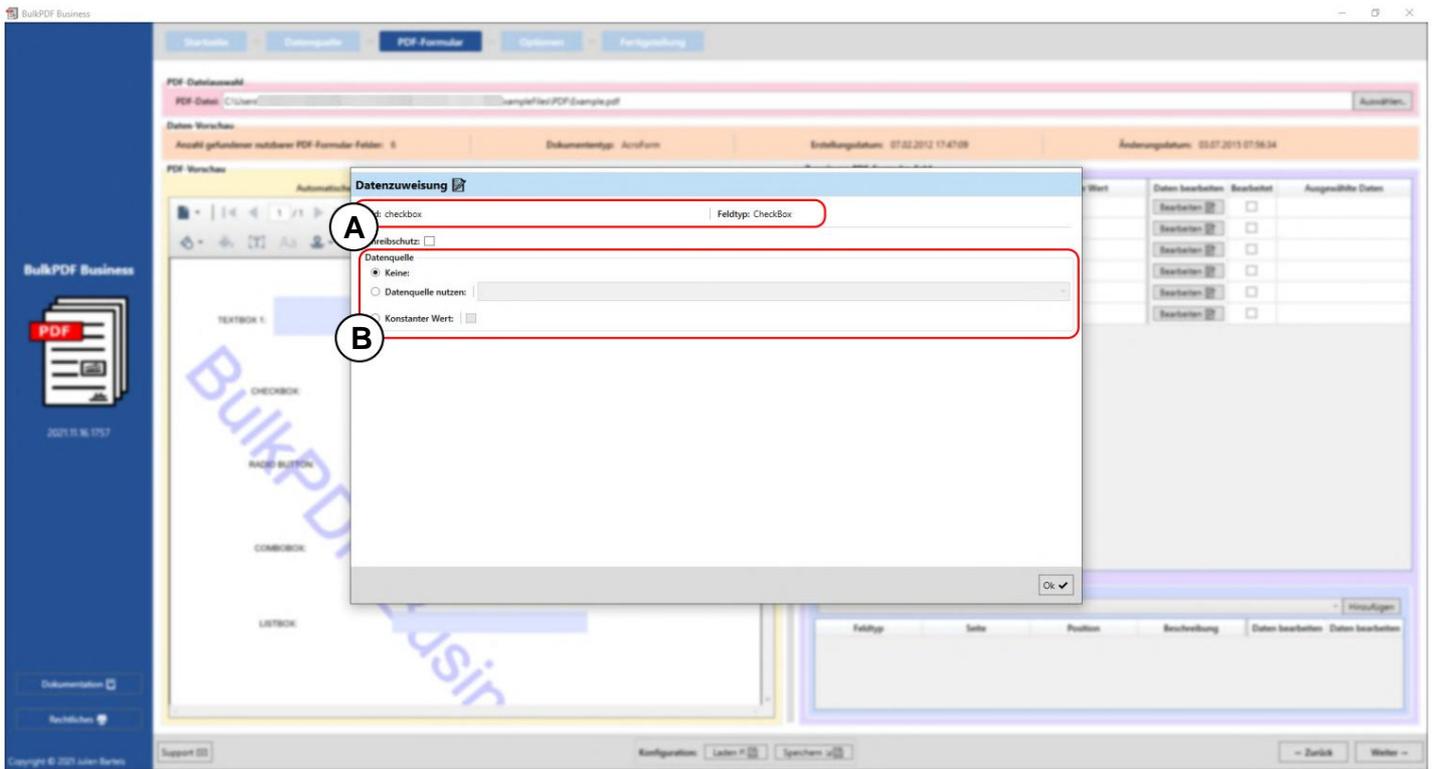
For the exact possible values, see a table in section 6.4. Please

Pay attention to the case sensitivity, as e.g. "MM" stands for month and "mm" for minute.



A According to the format “dd.MM.YYYY”, the PDF text field contains the date without time in German format.

### 3.3.9 Check box

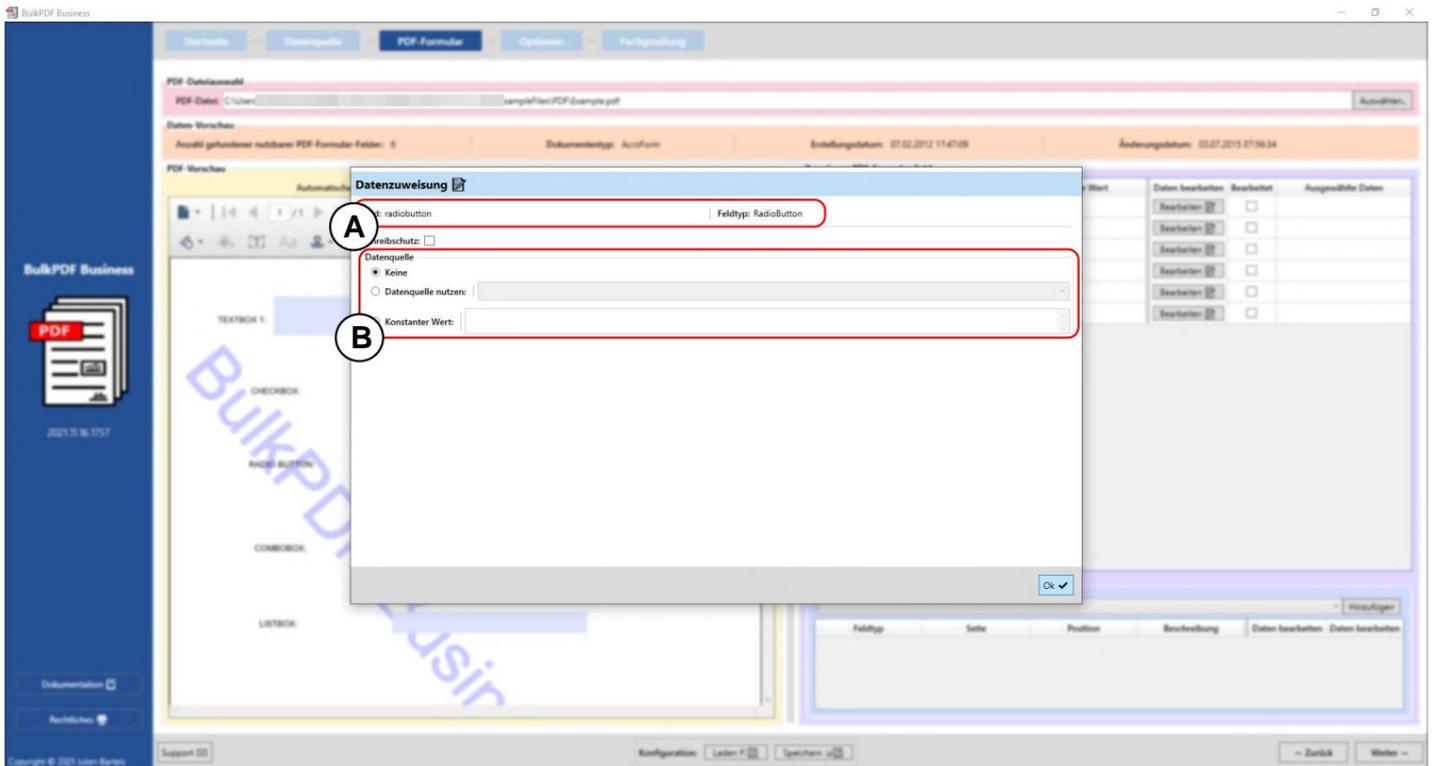


A The form field name “checkbox” and the form field type “Check-box” are displayed here.

**B Data source:** In comparison to text fields (see section 3.3.4) , for example , there is no constant value available as text here, but rather a checkbox that functions in the same way. When it comes to the data source, it is important to ensure that values are used in the column that BulkPDF Business converts to a “Yes / No” or “No” answer.

“True / False” value can be converted. (See section 1.4.2 for accepted values)

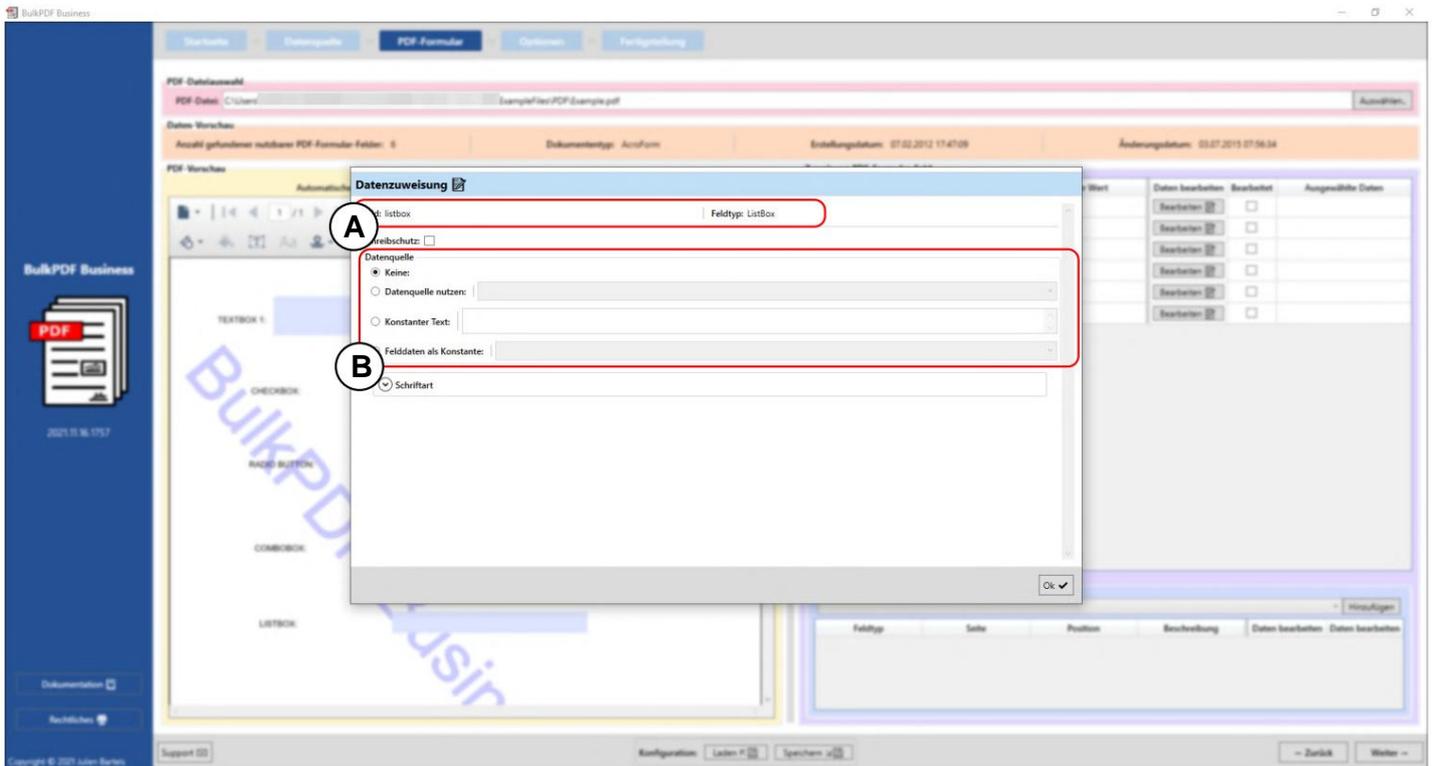
### 3.3.10 Radio buttons



**A** The form field name “radiobutton” and the form field type “Ra-dioButton” are displayed here.

**B Data source:** As with text fields (see section 3.3.4) , a data source, a constant value or no value can be selected. To select which of the radio buttons in a "RadioButton" group is to be selected, a number must be specified. The first box is the value "1", the second the value "2" and so on.

### 3.3.11 List box

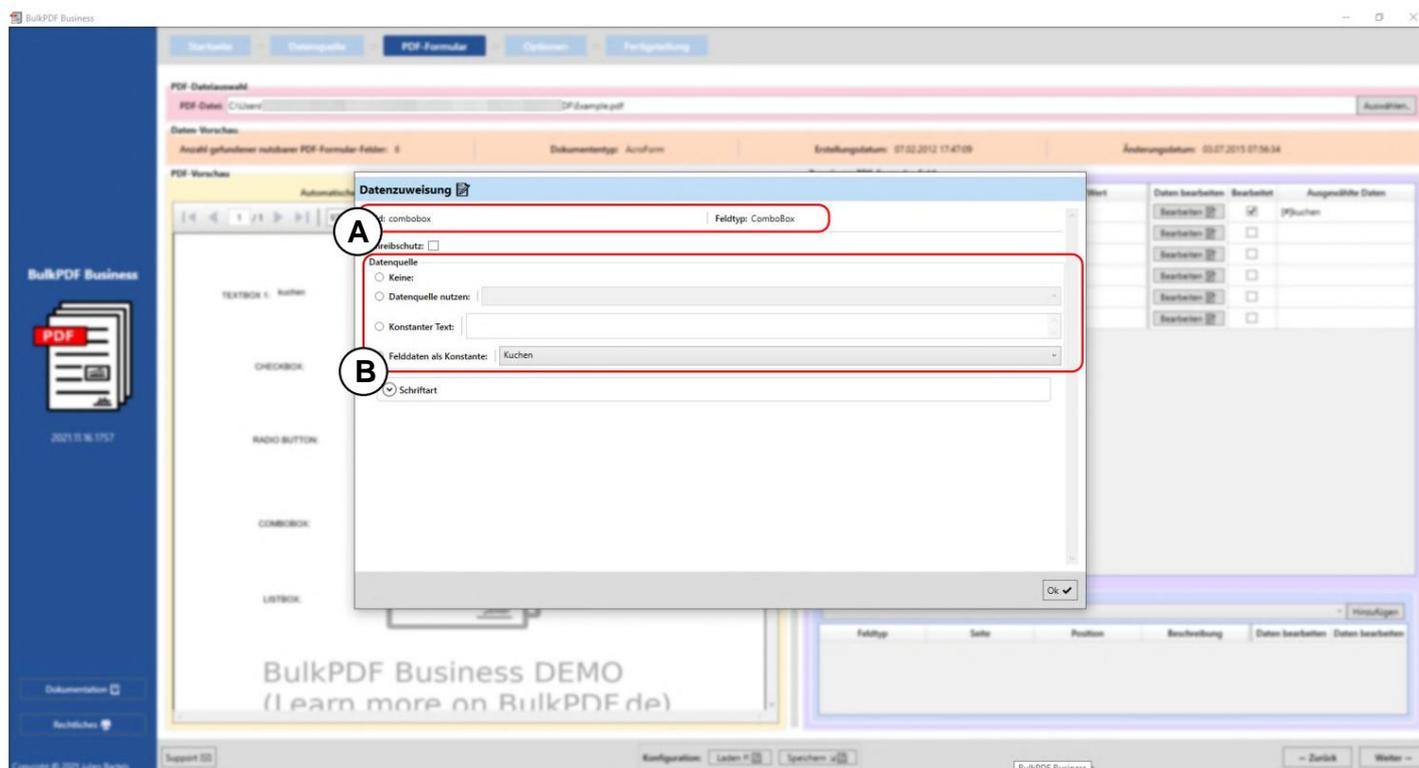


**A** The form field name “listbox” and the form field type “ListBox” are displayed here.

**B Data source:** As with text fields (see section 3.3.4) , a data source, a constant value or no value can be selected. Another option is "Field data as constant". In this selection, a value can be selected that was intended by the creator of the PDF form for this "ListBox" and is included as a selection for this in the PDF.

The selected value then behaves in the same way as a self-written text in the “Constant text” section. The value is therefore the same for all PDF forms created.

### 3.3.12 Combo box



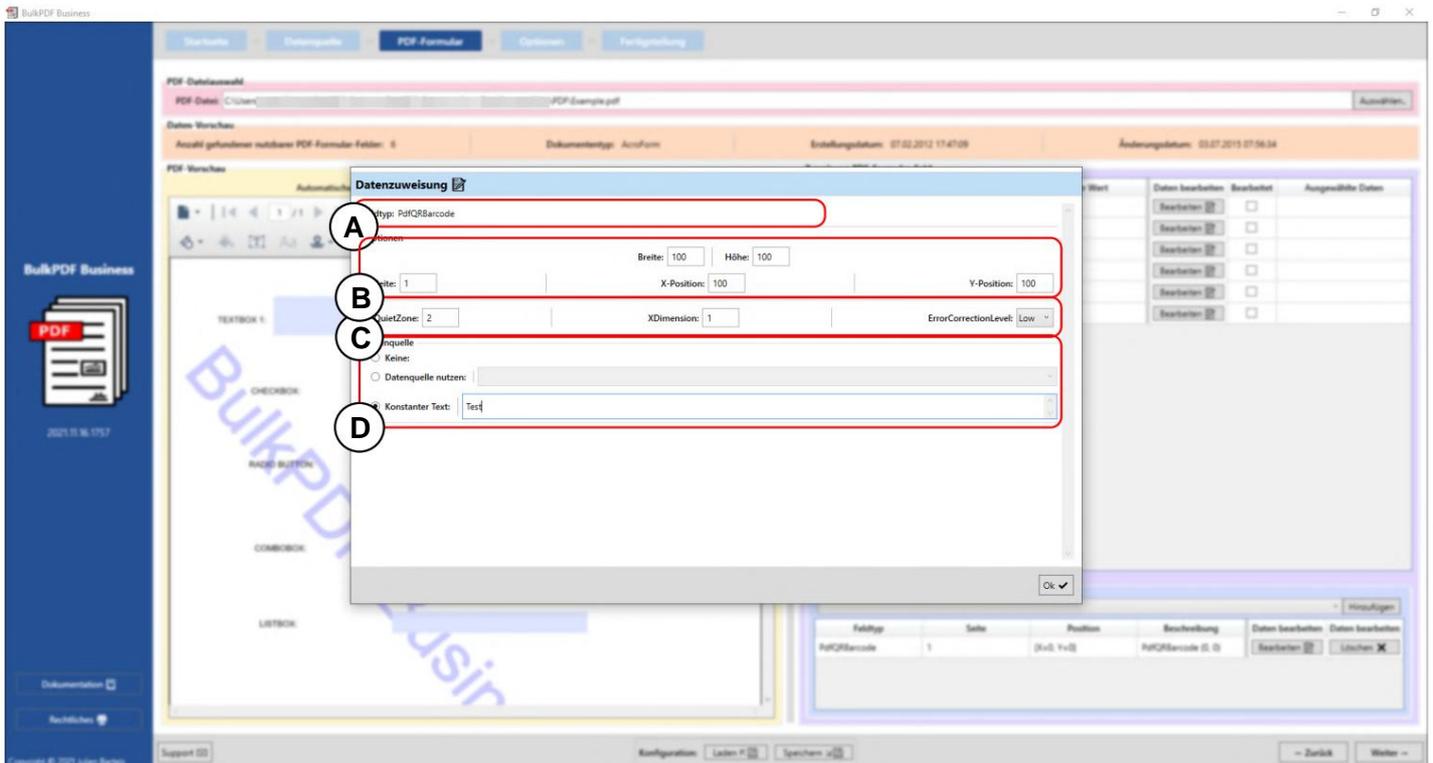
**A** The form field name “combobox” and the form field type “Com-boBox” are displayed here.

**B Data source:** The data source selection in the “ComboBox” is the same as in the “ListBox”, see section 3.3.11.

### 3.3.13 Barcodes in general

Under the menu item "Additional special fields" there are a number of barcodes that can be used in PDF forms. These include QR, DataMatrix, PDF417, EAN8, EAN13, Codabar, Code11, Code39, Code93, Code128[A,B,C], GS1-128 and UPC. Each of these barcodes has its own interface that is specific to the barcode with its own setting options, but is similar to the QR code interface presented in chapter 3.3.14 .

### 3.3.14 QR code



**A** The field type “PdfQRBarcode” is displayed here.

**B Options (width, height & position):** Here you can set the width and height of the QR code, as well as the page on which the barcode should be displayed and the position on the page. To determine the position, the distance to the 0 point (the top left corner of the PDF page) is specified. The distance to the 0 point is also measured at the top left corner of the QR code. To find the optimal position, you currently just have to play around with the values to get a feel for where, for example, a value of 100 is on the X position in the PDF.

**C Options (special setting options):** This shows options that are specific to a barcode type, such as the “Quiet Zone”, “XDimension” and the “ErrorCorrectionLevel”.

**D Data source:** The data source selection otherwise behaves like that of a “text field”, see section 3.3.4. The only difference is in the use of the data, since the data passed to the field is converted to the barcode become.

**PDF-Datelauswahl**  
PDF-Datei: C:\Users\...exampleFiles\PDF\Example.pdf

**Daten-Vorschau**  
Anzahl gefundener nutzbarer PDF-Formular-Felder: 6 | Dokumententyp: AcroForm | Erstellungsdatum: 07.02.2012 17:47:09 | Änderungsdatum: 03.07.2015 07:56:34

**Zuweisung PDF-Formular-Feld**

Feld	Feldtyp	Aktueller Wert	Daten bearbeiten	Bearbeitet	Ausgewählte Daten
textbox1	TextBox		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	
checkbox	CheckBox	False	<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	
combobox	ComboBox		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	
listbox	ListBox		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	
textbox2	TextBox		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	
radiobutton	RadioButton		<input type="button" value="Bearbeiten"/>	<input type="checkbox"/>	

**Zusätzliche Spezialfelder**

Feldtyp	Seite	Position	Beschreibung	Daten bearbeiten	Daten bearbeiten
PdfQRBarcode	1	(X=100, Y=100)	PdfQRBarcode (100, 100)	<input type="button" value="Bearbeiten"/>	<input type="button" value="Löschen X"/>

**A** The QR code on the PDF form with the values width "100", height "100", Page "1", X-position "100" and Y-position "100".

**B Field type:** In this case "PdfQRBarcode".

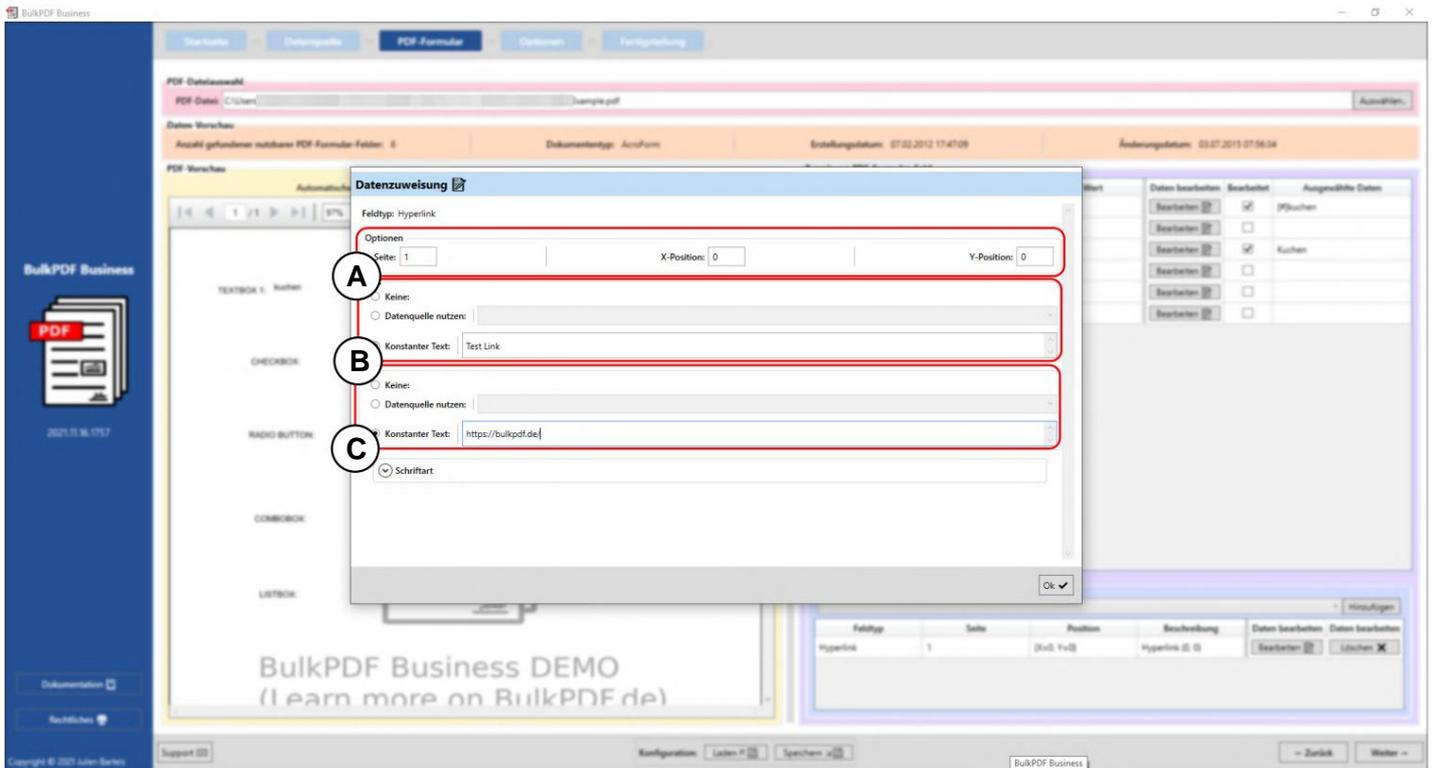
**C Page:** Number of the PDF form page on which the barcode is to be displayed should.

**D Position:** Here you can see the position in short form.

**E Description:** Here you can see a short description of the field.

**F** At this point the special field can be edited or deleted again. the.

### 3.3.15 Hyperlink

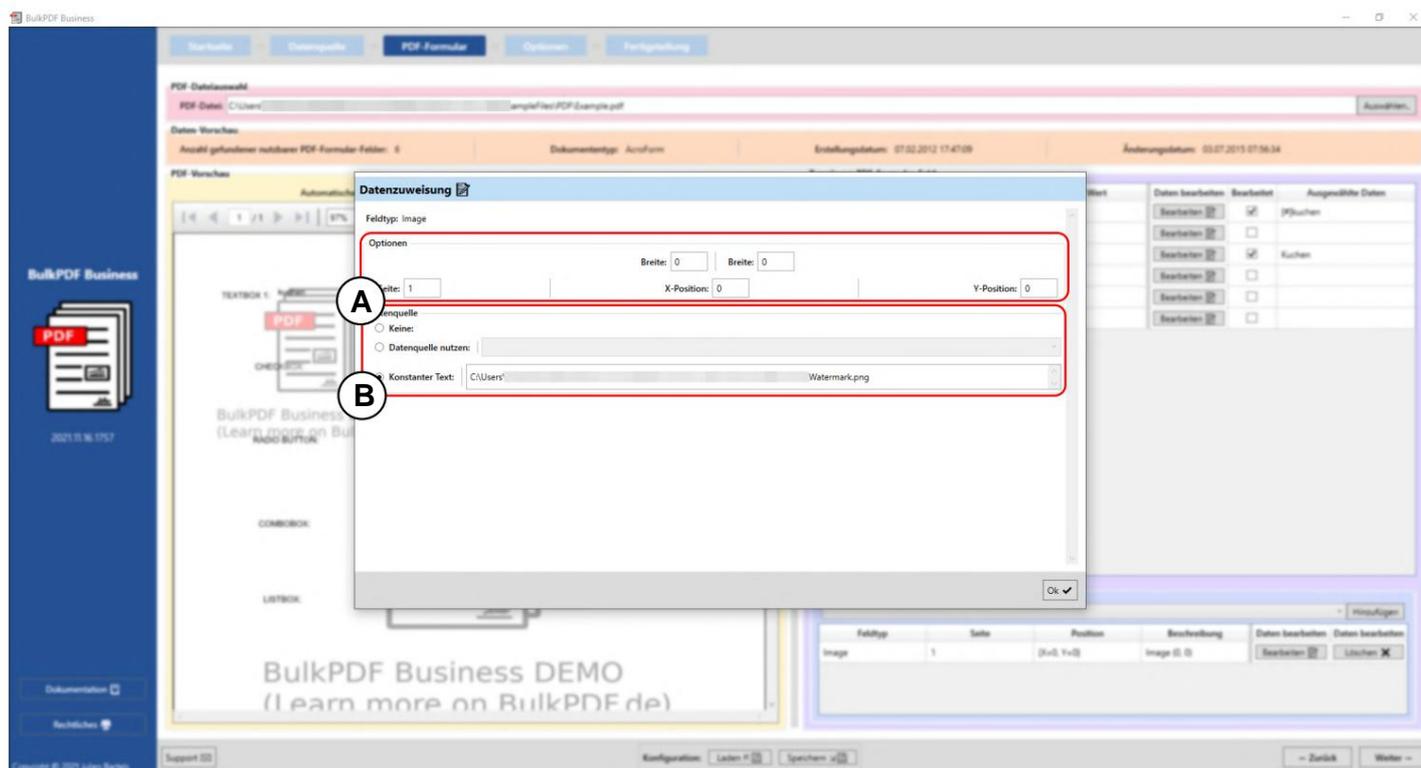


**A Options:** Here you can set the page and position on which the hyperlink should be displayed.

**B Text:** Here you can set the text for the hyperlink. The data source selection otherwise behaves like that for a "text field", see section 3.3.4.

**C URL:** Here you can set the URL or web address to which the hyperlink refers.

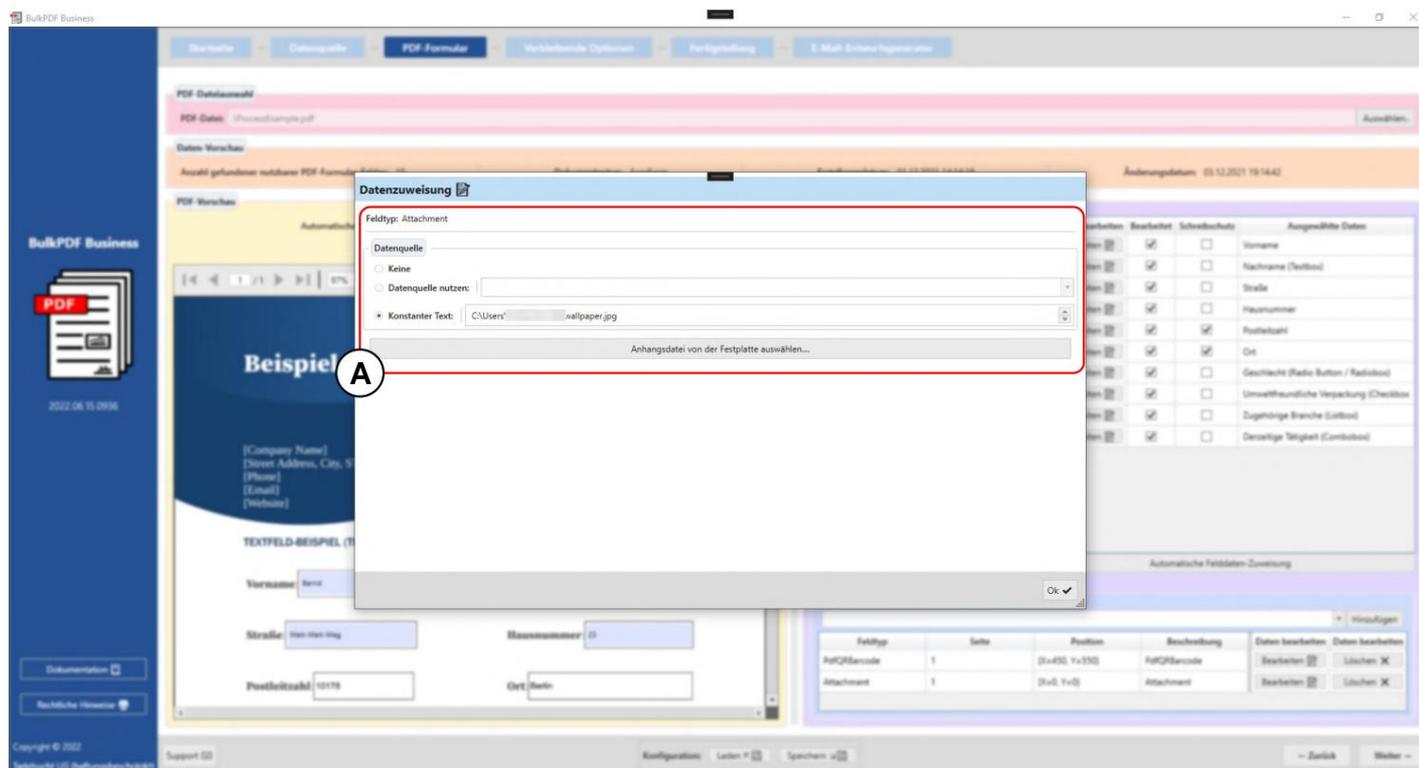
## 3.3.16 Image



**A Options:** Here you can set the width and height, as well as the page on which the image should be displayed and the position on the page. To determine the position, the distance to the 0 point (the top left corner of the PDF page) is specified. The distance to the 0 point is also measured at the top left corner of the image. To find the optimal position, you currently just have to play around with the values to get a feel for where, for example, a value of 100 is on the X position in the PDF.

**B Data source:** Image fields accept file paths to an image as data. Various image file formats, such as PNG, are supported. The data source selection otherwise behaves like that for a "text field", see section 3.3.4. There is also a quick selection button for selecting an image for a constant file path.

### 3.3.17 File attachment



**A** File attachment fields accept file paths as data. The data source selection otherwise behaves like a “text field”, see section 3.3.4.

In addition, there is a quick selection button for selecting a file for a constant file path.

## 3.4 Options

In this step, the file name generation is defined by stringing together file name formatting elements, and the output directory for the completed PDF files is defined. Optional options are also available, such as global write protection, file compression, data source line selection, and font and PDF signature settings.

The screenshot shows the BulkPDF Business software interface. The top navigation bar includes 'Startseite', 'Datenquelle', 'PDF-Formular', 'Optionen', and 'Fertigstellung'. The main area is divided into several sections:

- A:** A table titled 'Dateiname' with columns 'Dateiname', 'Formatierungs-Element', 'Daten', and 'Daten-Vorschau'. It contains two rows: 'Datenquelle' (Last name, Mueller) and 'Konstante' (pdf, pdf).
- B:** A section titled 'Dateinamen-Formatierungs-Elemente' with input fields for 'Konstante', 'Datenquelle', 'Zeilenummer', and 'Datum / Uhrzeit' (dd.MM.yyyy).
- C:** A preview section showing three generated file names: 'Dateinamen-Vorschau 1: Mueller.pdf', 'Dateinamen-Vorschau 2: Mustermann.pdf', and 'Dateinamen-Vorschau 3: Musterfrau.pdf'.
- D:** An 'Ausgabeort' (output location) field set to 'C:\Users\...'.
- E:** 'Optionale Optionen' section with a checkbox for 'Globaler Schreibschutz'.
- F:** A checkbox for 'Maximale Kompression'.
- G:** A text field for 'Anzahl Seiten zu Dokument (Beispiel: 1,4-9,34)'.
- H:** A section titled 'Schriftart' (Font) with options for 'Standard Unicode-Schriftart', 'Windows-Schriftartens', and 'Eigene Schriftart'.
- I:** A 'Signatur' (Signature) section with fields for 'Signatur-Datei' and 'Signatur-Passwort'.

The bottom of the interface includes a 'Support' button, 'Konfiguration' options for 'Laden' and 'Speichern', and navigation buttons for 'Zurück' and 'Weiter'.

**A Filename:** This table contains all filename formatting elements which, in descending order, form the generated file name.

**B Filename formatting elements:** This element group allows the filename Formatting element table on the left side to add more elements gene.

**C** This preview shows the file names generated based on the formatting elements.

**D Output:** Here you specify the output order in which at the end of the process all completed documents should be added or saved.

**E Global write protection:** This option allows you to set all PDF form fields to read-only with a single click so that no further editing can be carried out on these.

**F File compression:** This option activates the maximum possible compression on the created PDF files. This option to save storage space is This is particularly useful if you plan to send the PDF files by email.

**G Line to document:** This field allows you to limit the lines of the data source that are to become completed documents. The syntax is either writing the individual data source lines separated by commas (example 3,5,6,8) or selecting a range using the minus sign (example 32-48).

Both methods can be combined (examples 4-9,34,42-45,56).

**H Font:** In this expandable element group, the font for all fields can be specified.

**I Signature:** In this expandable element group, a digital signature can be specified for the document.

**Password protection (view document):** In this expandable element group, a password can be selected for each PDF via the data source or a constant password for all documents. The password must be entered when opening the

PDF document to decrypt and view it.  
can.

**Password protection (edit document):** This option allows you to set a password that is required to edit the PDF document.

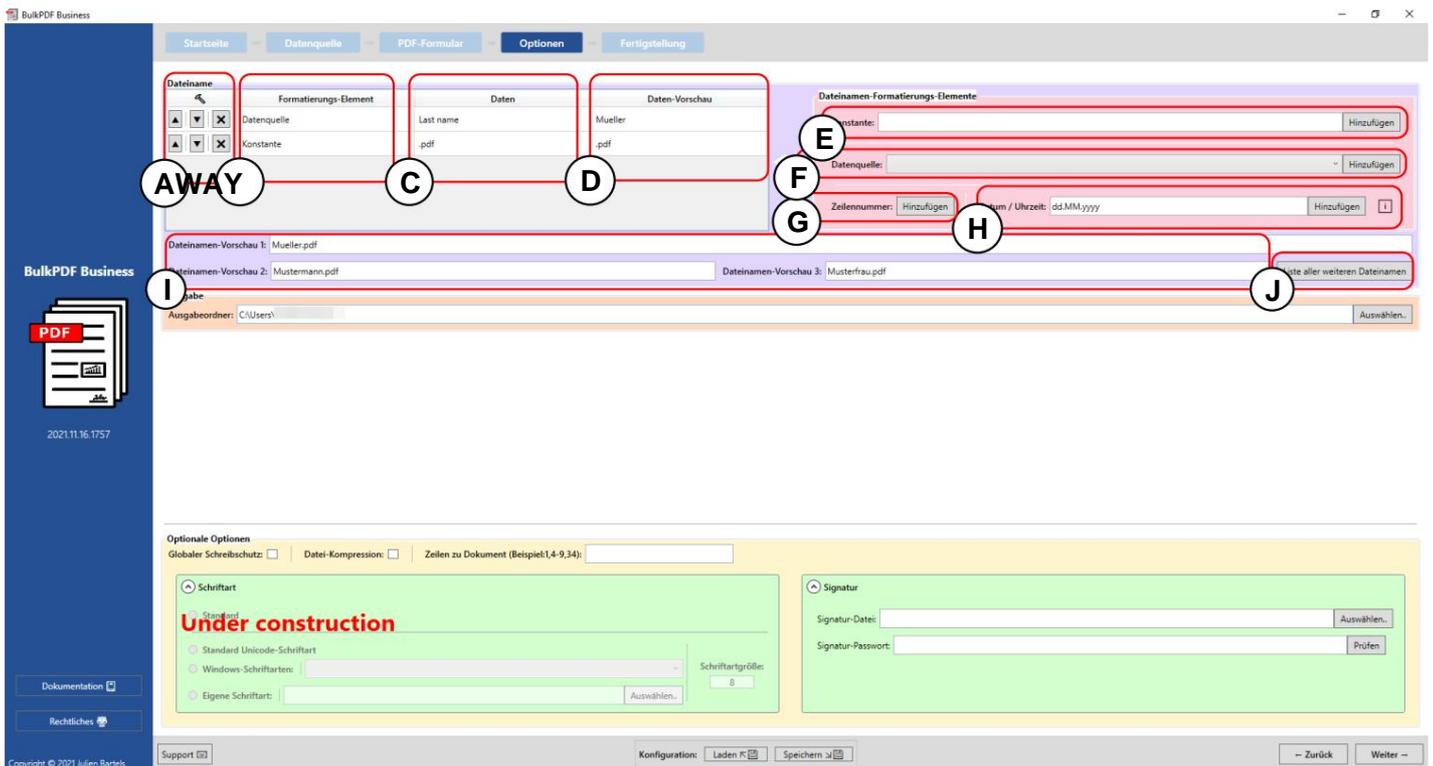
This means that access to editing functions such as changing content, filling out forms or adding annotations is only possible if the correct password is entered.

There are different permission levels that can be set to restrict access to certain editing functions. These include:

- **Print:** You can prevent the document from being printed if only low quality printing may be allowed.
- **Edit content:** Editing of the content can be completely prohibited so that neither text nor graphics can be changed.
- **Copying content:** You can prohibit copying text or other content from the PDF.
- **Edit comments:** The permission to add or edit comments or annotations can also be restricted.
- **Fill in form fields:** You can specify that form fields are visible but cannot be filled in.
- **Accessibility:** Copying content for accessibility purposes may be prohibited.

- **Compile document:** It can be prevented that the document is composed from various sources.
- **High quality printing:** You can prohibit printing the document in high quality. her quality, so that only printing in low resolution allows is.

However, these permissions are only effective if a password has actually been set. Without a password, the specified restrictions have no effect and the document can be accessed by any person without Restrictions can be edited.



**A** Here are the options to place a formatting element in the order of Position up or down. There is also a button to remove remote from the element.

**B Formatting element:** This column indicates the element type, such as e.g. "data source" or "constant".

**C Data:** Here you can see a representation of the data of the selected formatting element.

**D Data Preview:** This column shows a data preview depending on the element type. For example, in a data source, the data of the first

row of this data source column. For constants, simply the constant text itself.

**E Constant:** A constant is a constant text that is the same for every PDF form.

**F Data source:** The data source is different for each PDF form and depends on the data in the respective row of the data source.

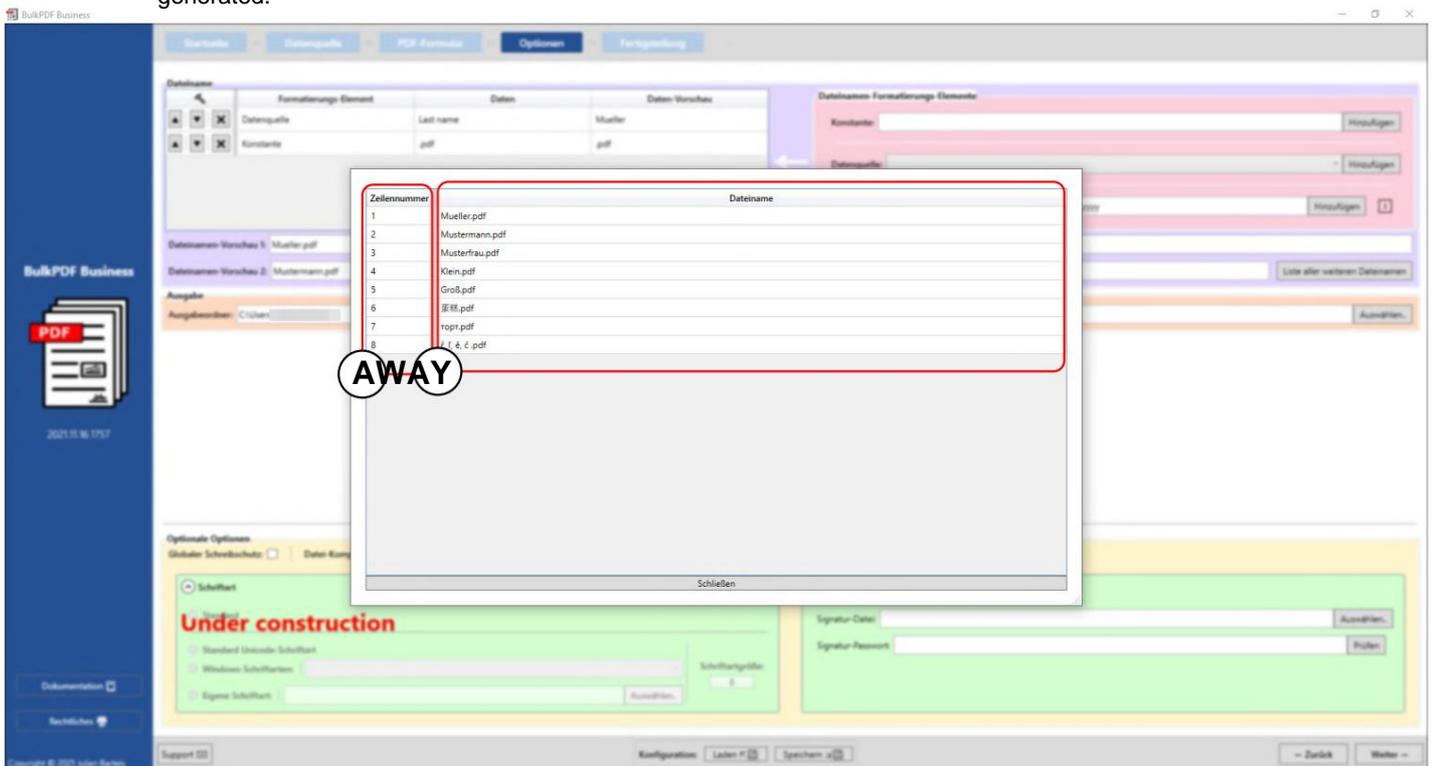
**G Line number:** This number is the line number of the data source.

**H Date / Time:** This formatting element allows you to add a date and/or time in the desired format to the file name.

For the exact possible values, see a table in section 6.4.

**I File name preview:** This preview uses the first three lines to a data source file name is generated.

**J List of all other file names:** Using this button, you can preview all the file names that would be generated.



In this window you can see all the file names that would be generated based on the data source. In the first column **(A)** you can see the line number of the data source and in the second column **(B)** you can see the generated file name.

### 3.5 Completion

On this last page of the application, you can see the settings you have made and a list of all the files that will be generated. You can also generate individual files as a preview.

The screenshot shows the 'Fertigstellung' (Completion) tab of the BulkPDF Business application. The interface is divided into three main sections:

- Vorschau (Preview):** This section displays the settings for the PDF generation process. It includes fields for 'Ausgabeordner' (Output folder), 'Anzahl gefundener Zeilen' (Number of found lines), 'Schreibschutz' (Write protection), 'Datei-Kompression' (File compression), 'Anzahl an PDF-Formular-Feldern' (Number of PDF form fields), and 'Anzahl an Spezial-Feldern' (Number of special fields). Below these settings is a table listing the PDF documents to be generated.
- Fertigstellung (Completion):** This section displays a table with columns for 'Zeilennummer' (Line number), 'Datei' (File), 'Fehlerinformationen' (Error information), and 'Anzeigen' (Show). This table lists the PDF documents that will be generated.
- Footer:** The footer contains a 'Support' button, a 'Konfig' (Configuration) button, and a 'Fertigstellen' (Finish) button, which is highlighted with a red box and callout C.

The table in the 'Vorschau' section lists the following PDF documents:

Zeilennummer	Datei	PDF-Vorschau
1	C:\Users\... \Mueller.pdf	[Icon]
2	C:\Users\... \Mustermann.pdf	[Icon]
3	C:\Users\... \Musterfrau.pdf	[Icon]
4	C:\Users\... \Klein.pdf	[Icon]
5	C:\Users\... \Groß.pdf	[Icon]
6	C:\Users\... \張姓.pdf	[Icon]
7	C:\Users\... \topit.pdf	[Icon]
8	C:\Users\... \f. f. & z. pdf	[Icon]

**A Preview:** This preview shows the settings made as well as a list of all documents that would now be generated.

**B Completion:** This table lists the PDF documents created.

**C Finish:** This button generates the completed PDF form files according to the selected settings. After the PDF files have been processed, the output folder is opened automatically.

The screenshot shows the BulkPDF Business software interface. The main window is titled 'Fertigstellung' (Completion). On the left, there is a 'Vorschau' (Preview) section with a table of 8 rows. The 'Fertigstellung' table on the right is highlighted with a red border and a red circle labeled 'A'. The 'Fertigstellung' table has the following data:

Zeilennummer	Datei	Fehlerinformationen	Anzeigen
1	C:\Users\... \Mueller.pdf		👁
2	C:\Users\... \Mustermann.pdf		👁
3	C:\Users\... \Musterfrau.pdf		👁
4	C:\Users\... \Klein.pdf		👁
5	C:\Users\... \Groß.pdf		👁
6	C:\Users\... \Müller.pdf		👁
7	C:\Users\... \topr.pdf		👁
8	C:\Users\... \f, l, & z.pdf		👁

In the completion table **(A)**, the generated files are displayed with their line number and the file path. The green color and the absence of an Error information indicates that all documents were created successfully. The document can be viewed using the eye button. If an error message is displayed, clicking on the eye button for the faulty line in the pre-filled support window with a more detailed Error message, as well as the option to contact support directly.

The screenshot displays the BulkPDF Business software interface. The main window is titled "BulkPDF Business" and has a sidebar on the left with a PDF icon and the text "BulkPDF Business". The main area is divided into two sections: "Vorschau" (Preview) and "Fertigstellung" (Completion).

The "Vorschau" section contains a table with the following data:

Zeilenummer	C:\User	Datei
1	C:\User	Mueller.pdf
2	C:\User	Mustermann.pdf
3	C:\User	Musterfrau.pdf
4	C:\User	Klein.pdf
5	C:\User	Groß.pdf
6	C:\User	ÜB III.pdf
7	C:\User	topr.pdf
8	C:\User	f, f, & c.pdf

Each row in the preview table has a "PDF-Vorschau" button. Circles A and B are drawn around the buttons for rows 1 and 5, respectively.

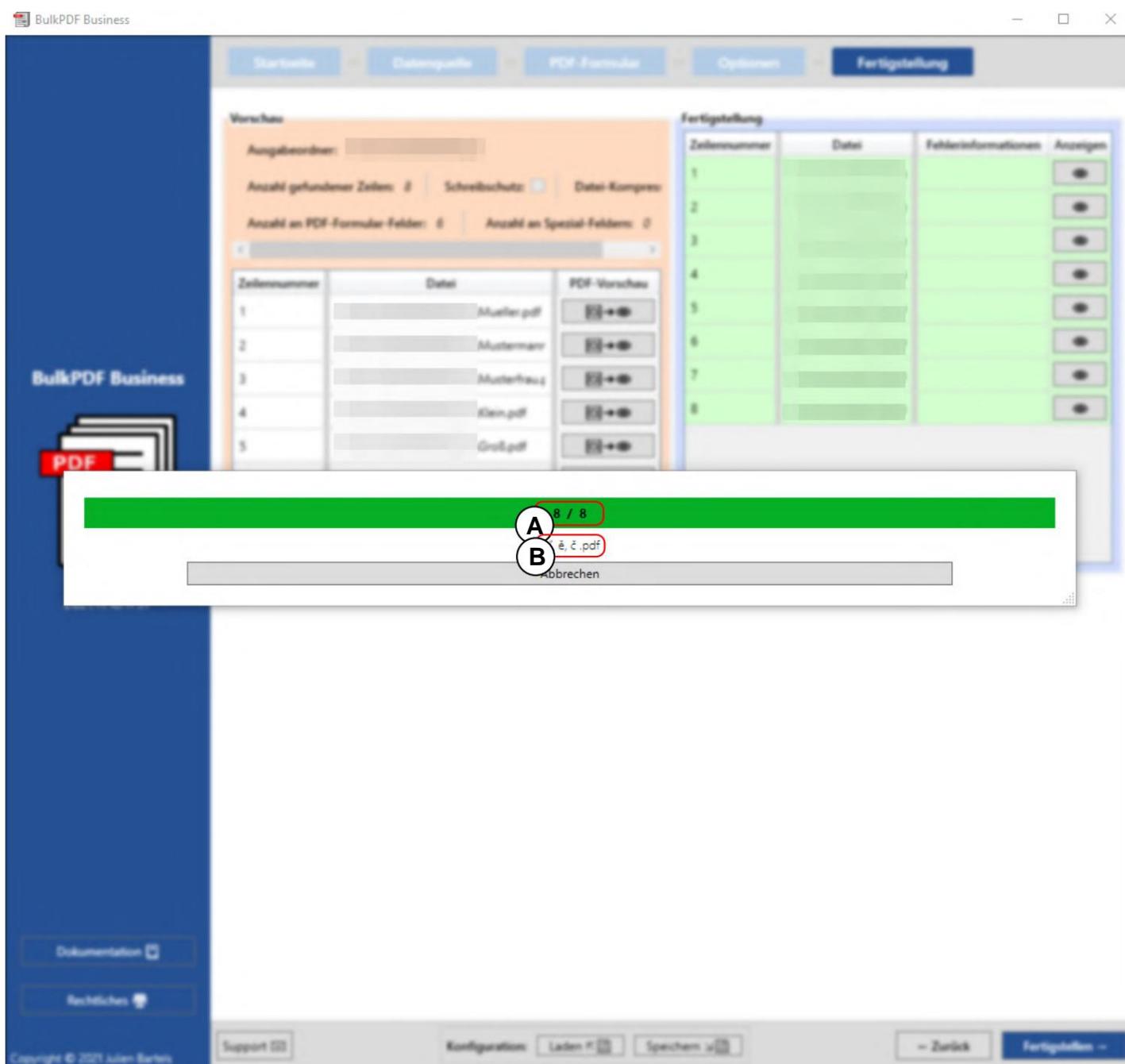
The "Fertigstellung" section contains a table with the following data:

Zeilenummer	Datei	Fehlerinformationen	Anzeigen
1	C:\Users\... Mueller.pdf		<input checked="" type="checkbox"/>
	C:\Users\... Groß.pdf		<input checked="" type="checkbox"/>

Circle C is drawn around the first two rows of the completion table.

At the bottom of the interface, there are buttons for "Support", "Konfiguration: Laden F", "Speichern", "Zurück", and "Fertigstellen".

This screenshot shows, for example, that line numbers "1" and "5" have already been generated as preview files using the buttons in **A** and **B**. These two lines were successfully created and entered into the completion table in **C**.



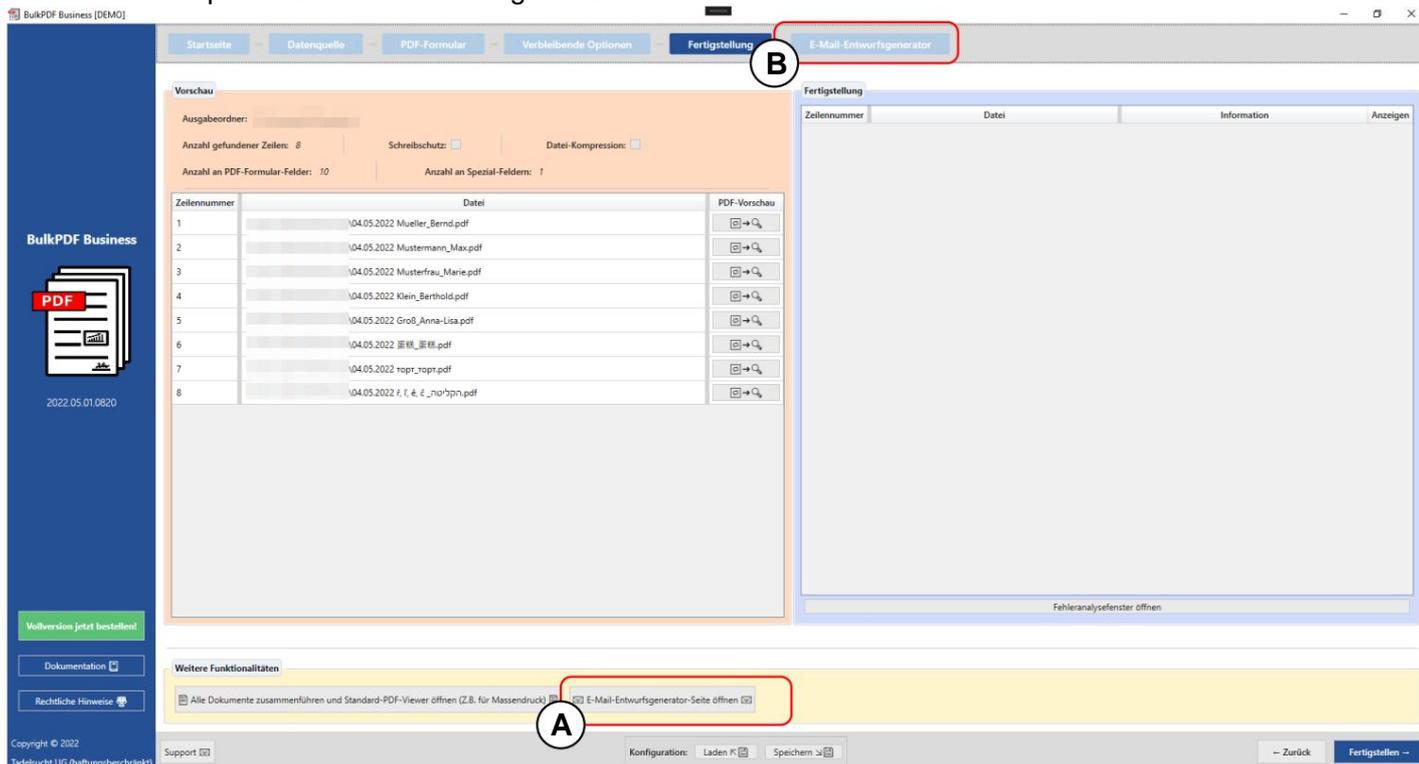
In this screenshot you can see the progress window that appears after clicking the "Finish" button. In **A**, the number of the file that is currently being created is shown at the front and the number of all files behind it. **B** shows the file name of the file that is currently being filled.

### 3.6 Email draft generator

After the PDF files have been completed, there is the option of adding the next step, the email draft generator. This allows you to create emails with the previously generated PDF files and attach them straight away.

These emails are not sent immediately but are saved as files in the email file format “.EML” or “.MSG”. These files can be opened as email drafts using email programs such as Microsoft Outlook or Thunderbird.

and, if necessary, sent immediately. The user interface of the email draft generator is discussed below, the options and explicitly on the possibilities for formatting emails.



**A** In the PDF completion step, the Email Draft Generator button adds open” add the additional step “Email Draft Generator”.

**B** After creating the step, you can always open it again using the button “Open email draft generator” or by clicking on the step in the step overview can be achieved.

**E-Mail Datenzuweisung**

Anleitung  
TODO

E-Mail-Absender  
• Keine  
• Datenquelle nutzen:  
• Konstanter Text: julien.bartels@bulkpdf.de<Julien Bartels>

E-Mail-Empfänger  
• Keine  
• Datenquelle nutzen:  
• Konstanter Text: support@bulkpdf.de<Support-Team>

E-Mail-Empfänger CC  
• Keine  
• Datenquelle nutzen:  
• Konstanter Text:

E-Mail-Empfänger BCC  
• Keine  
• Datenquelle nutzen:  
• Konstanter Text:

Betreff der E-Mail  
• Keine  
• Datenquelle nutzen:  
• Konstanter Text: Derzeitige positive Entwicklungen in {Ort}

Wichtigkeit der E-Mail  
• Keine  
• Datenquelle nutzen:  
• Konstanter Text: 2

**Vorschau**

E-Mail-Absender: julien.bartels@bulkpdf.de<Julien Bartels>  
E-Mail-Empfänger: support@bulkpdf.de<Support-Team>  
E-Mail-Empfänger CC:  
E-Mail-Empfänger BCC:  
Betreff der E-Mail: Derzeitige positive Entwicklungen in Berlin  
Wichtigkeit der E-Mail: 2  
PDF-Datei: 04.05.2022 Mueller\_Bernd.pdf  
E-Mail-Anhänge: \ProcessExample.pdf  
E-Mail-HTML-Inhalt:  
E-Mail-Textinhalt: Sehr geehrter Herr Mueller,  
die derzeitigen Entwicklungen in Berlin sehe ich als äußerst positiv. Anbei die Dokumente diesbezüglich.

**Fertigstellung**

Zeilenummer	Datei	Information	Anzeigen
1	04.05.2022 Mueller_Bernd.EML		🔍
2	04.05.2022 Mustermann_Max.EML		🔍
3	04.05.2022 Musterfrau_Marie.EML		🔍
4	04.05.2022 Klein_Berthold.EML		🔍
5	04.05.2022 Groß_Anna-Lisa.EML		🔍
6	04.05.2022 董姓_董姓.EML		🔍
7	04.05.2022 ropt_ropt.EML		🔍
8	04.05.2022 f, r, e, e, _סקילס.EML		🔍

E-Mail Dateityp: EML  
E-Mails generieren

**A** This is where the data assignment to the email draft takes place. In this Graphics only sender, recipient, recipient CC, recipient BCC, subject and the importance are presented.

For recipient, recipient CC and recipient BCC, there is a notation for filling in these fields.

An email address is only recognized if

if it is written as follows "support@bulkpdf.de<Support Team>". First

The notation is the email address followed by a "<", then the display name and finally a ">".

If several email addresses are addressed

The addresses must be separated by a "|".

For example, like this:

"support@bulkpdf.de<Support Team>|julien.bartels@bulkpdf.de<Julien Bartels>"

For the subject, there is the special feature that you can use the notation data source column name within a text to refer to columns of the same row from the data source

The program replaces these with "{" and "}" enclosed

Column names are then replaced by the data, as shown in the example where the text "Current positive developments in {location}" to "Current positive developments in Berlin" in the preview. (The resolution of bracketed texts to data

can be prevented by escaping "{" and "}" with a preceding "\" [Example: \{Test\}]. This is especially necessary if



Insert data using the column names from the respective row (see the difference between the email body content in A and B).

**B** Here you can see the preview of the data that is visible in the **A** elements

were set. As was previously the case for the PDF preview, the first line of the data source is used for the data. In the selected email text content, the column names of the data source enclosed in brackets were replaced with the respective data in the line.

Zeilennummer	Datei	Information	Anzeigen
1	04.05.2022 Mueller_Bernd.EML		
2	04.05.2022 Mustermann_Max.EML		
3	04.05.2022 Musterfrau_Marie.EML		
4	04.05.2022 Klein_Berthold.EML		
5	04.05.2022 Groß_Anna-Lisa.EML		
6	04.05.2022 田村_真生.EML		
7	04.05.2022 ropp_ropp.EML		
8	04.05.2022 ר, f, & , ט, ס, ו, קי, וק, וק.EML		

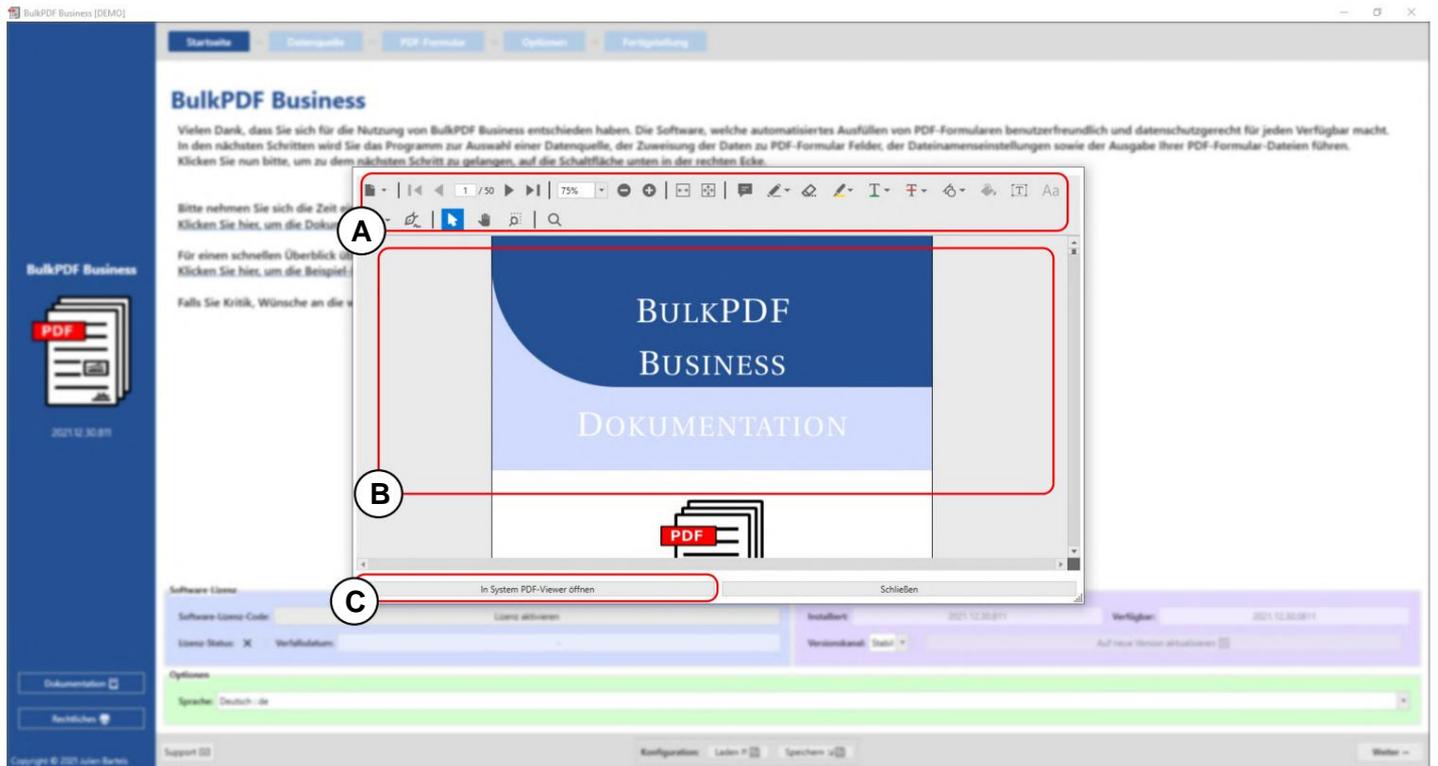
For HTML content (see A), this is automatically written into the text content (see B) without the HTML tags if no text content is specified.

### 3.7 Miscellaneous

This is followed by other windows within the application that cannot be assigned to a specific program step.



### 3.7.2 Documentation window

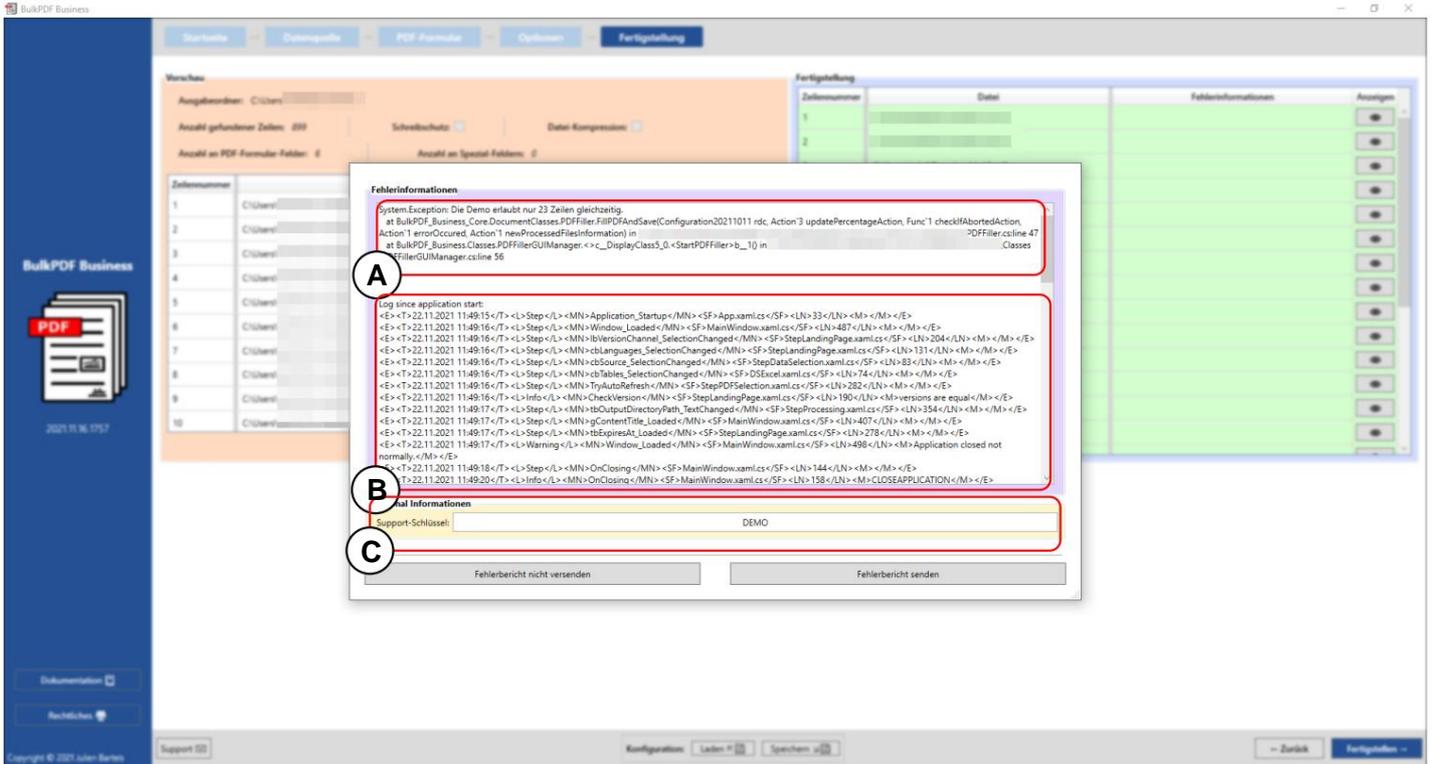


**A** At this point, functions such as zoom, page change, etc. are available.

**B** The documentation itself is displayed here.

**C** This button can be used to open the documentation in the system's own PDF viewer.

### 3.7.3 Error window (Exception)



**A** The error message is displayed here.

**B** The complete log since the program start is embedded here.

**C** This text box contains the support code that was generated based on the software license.

### 3.7.4 Font selection & font color selection

When selecting the font, you can also set the font to bold or italic. For example, the Windows fonts for Arial include the normal "arial.ttf", but also "arialb.ttf" for bold and "ariali.ttf" for italic.



**A** This is the default font.

**B** Fonts included in BulkPDF-Business, which contain a suitable font for almost all character systems worldwide. The selection can be restricted through the compatibility search. This works by entering, for example, the Chinese characters that the font must support.

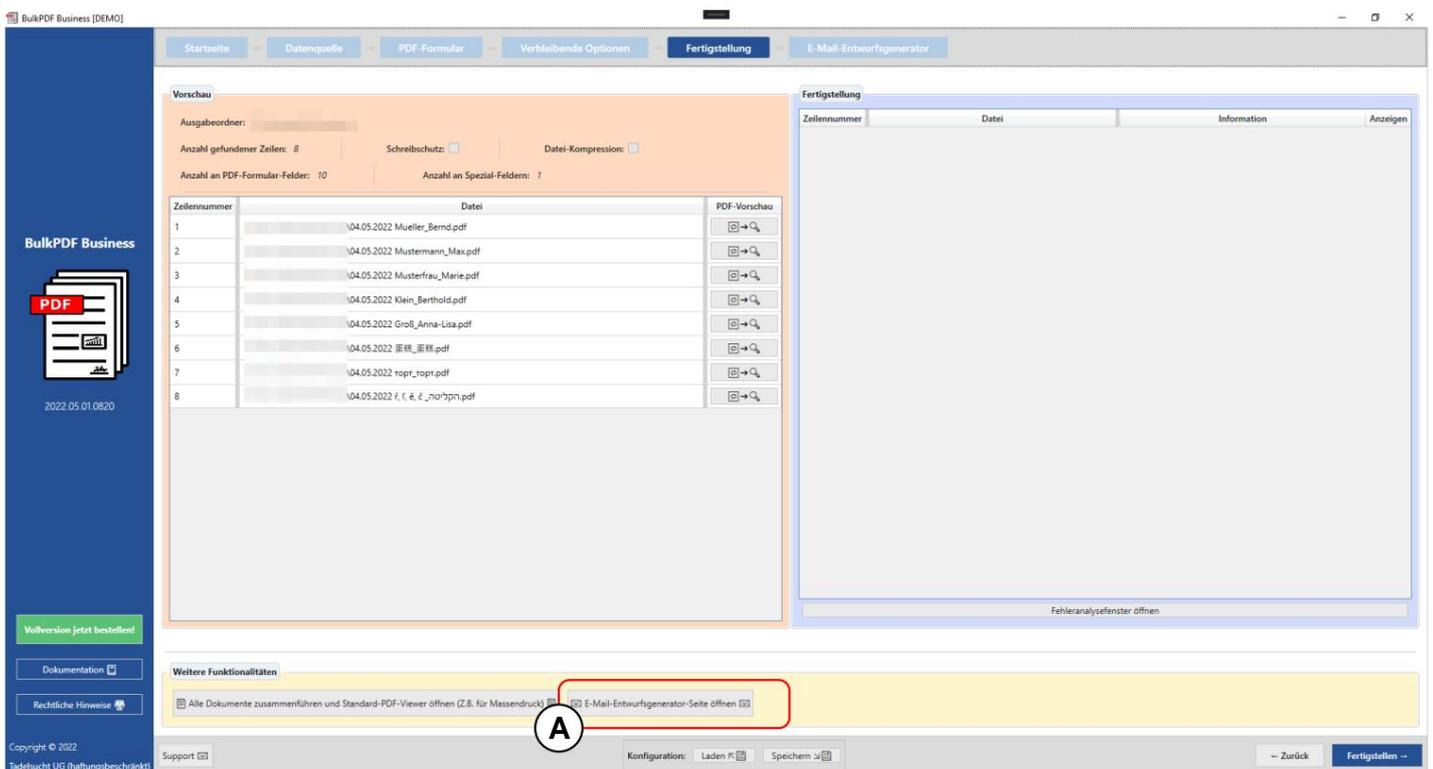
**C** The fonts included in your Windows. Also with the compatibility search, as with the included fonts.

**D** You can select your own font file here.

**E** The step size can be set here

**F** In this element, the font color can be set, as well as reset to the standard black.

### 3.7.5 Additional functionalities



**Merge all documents and open standard PDF viewer** This function is intended for mass printing, for example. If all PDF files are to be printed physically right away, they can be used with this function to create a single file and then, for example, using Adobe Acrobat can be printed with a single print job.

**E-mail draft generator** For information about the e-mail draft generator, see [chapter 3.6](#).

# 4

## Command line (BulkPDF- Business Console)

In addition to the graphical application, there is also the console application “BulkPDF-**Business-Console.exe**” in the installation folder. For the command line function you can easily create a configuration via the GUI, which you can End saves. The configuration can be easily changed later via GUI or using a text editor, since BulkPDF files are text files.

### 4.1 Parameter list

Below is a list of all available parameters, which can be entered in any order can be used individually or in combination:

parameter	Description A
"C:\PATH\Config.BulkPDF"	configuration file from the graphical application is always required.
wait	Keeps the console open to view the output.
ignoreErrors	Causes the program to ignore errors and fill in as much as is possible under the conditions. Overrides the path to
overwriteSpreadsheetFilePath "C:\PATH\new.xlsx"	the spreadsheet file.
overwritePDFSourceFilePath "C:\PATH\new.pdf"	Overrides the path to the PDF source file.
overwriteOutputFolderPath "C:\PATH"	Overrides the output directory path. (Attention: There must be no \ at the end, otherwise the " is not recognized and a Errors such as "The syntax for the file name, Directory names or the Volume label is incorrect") Overrides the table
overwriteSelectedTableName "NewTableName"	name from which the data is to be obtained.
useAutoMappingForFieldData 2	Tried all form fields without to automatically assign a column from the data source to the assigned data. Takes a number for the allowed Levenshtein distance between Form field names and column names.
emailGeneration	After creating the PDFs, executes the email generation according to the information in the configuration file.

## 4.2 Output of the console application

```

C:\Users\... BulkPDF-Business-Console.exe
-----
BulkPDF Business
-----
2021.11.22.1638
-----
Check command line arguments -----
Usage: BulkPDFBusinessConsole.exe "C:\Users\username\Desktop\Configuration.BulkPDF"
Or waiting: BulkPDFBusinessConsole.exe "C:\Users\username\Desktop\Configuration.BulkPDF" wait
Press Any Key to Continue..

```

In this screenshot you can see the output when no program arguments to call the "BulkPDF-Business-Console.exe". **A** sees you can see the program version, below you can see help on what the program arguments or parameters for executing a configuration look like. In addition to The path to the BulkPDF configuration file can also be specified with "wait" to keep the console open to view the output. Likewise There are other parameters that were previously listed in the table. a few examples of how to call the console application:

```

1 BulkPDF-Business-Console.exe "C:\PATH\Config.BulkPDF"
2 ...
3 BulkPDF-Business-Console.exe "C:\A\Config.BulkPDF" wait
4 ...
5 BulkPDF-Business-Console.exe "C:\B\Config.BulkPDF" ignoreErrors
6 ...
7 BulkPDF-Business-Console.exe "C:\Config.BulkPDF" wait ignoreErrors
8 ...

```

```

-----
BulkPDF Business
-----
2021.11.22.1638
-----
Check command line arguments
Load BulkPDF Business license
SupportCode: [REDACTED]
Load configuration file
Start filling process
-----
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]1.pdf", "Message": null, "RowID": 1, "Succeed": true}
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]2.pdf", "Message": null, "RowID": 2, "Succeed": true}
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]3.pdf", "Message": null, "RowID": 3, "Succeed": true}
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]4.pdf", "Message": null, "RowID": 4, "Succeed": true}
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]5.pdf", "Message": null, "RowID": 5, "Succeed": true}
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]6.pdf", "Message": null, "RowID": 6, "Succeed": true}
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]7.pdf", "Message": null, "RowID": 7, "Succeed": true}
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]8.pdf", "Message": null, "RowID": 8, "Succeed": true}
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]9.pdf", "Message": null, "RowID": 9, "Succeed": true}
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]10.pdf", "Message": null, "RowID": 10, "Succeed": true}
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]11.pdf", "Message": null, "RowID": 11, "Succeed": true}
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]12.pdf", "Message": null, "RowID": 12, "Succeed": true}
{"File": "C:\\Users\\[REDACTED]\\[REDACTED]13.pdf", "Message": null, "RowID": 13, "Succeed": true}

```

**A Support Code:** The line shows the support code if a valid license is loaded and the text “Demo” if there is no valid license. Please add the code in the subject line of support emails.

**B File:** Path to the completed newly created PDF form.

**C Message:** Contains an error text in case of errors and normally the value “null”.

**D RowID:** Displays the row number of the data source used for the respective completed PDF form.

**E Succeed:** Indicates whether the filling was successful. (“true” / “false”)

```

C:\Users\... BulkPDF-Business-Console.exe
{"File": "C:\\Users\\...\\873.pdf", "Message": null, "RowID": 873, "Succeed": true}
{"File": "C:\\Users\\...\\874.pdf", "Message": null, "RowID": 874, "Succeed": true}
{"File": "C:\\Users\\...\\875.pdf", "Message": null, "RowID": 875, "Succeed": true}
{"File": "C:\\Users\\...\\876.pdf", "Message": null, "RowID": 876, "Succeed": true}
{"File": "C:\\Users\\...\\877.pdf", "Message": null, "RowID": 877, "Succeed": true}
{"File": "C:\\Users\\...\\878.pdf", "Message": null, "RowID": 878, "Succeed": true}
{"File": "C:\\Users\\...\\879.pdf", "Message": null, "RowID": 879, "Succeed": true}
{"File": "C:\\Users\\...\\880.pdf", "Message": null, "RowID": 880, "Succeed": true}
{"File": "C:\\Users\\...\\881.pdf", "Message": null, "RowID": 881, "Succeed": true}
{"File": "C:\\Users\\...\\882.pdf", "Message": null, "RowID": 882, "Succeed": true}
{"File": "C:\\Users\\...\\883.pdf", "Message": null, "RowID": 883, "Succeed": true}
{"File": "C:\\Users\\...\\884.pdf", "Message": null, "RowID": 884, "Succeed": true}
{"File": "C:\\Users\\...\\885.pdf", "Message": null, "RowID": 885, "Succeed": true}
{"File": "C:\\Users\\...\\886.pdf", "Message": null, "RowID": 886, "Succeed": true}
{"File": "C:\\Users\\...\\887.pdf", "Message": null, "RowID": 887, "Succeed": true}
{"File": "C:\\Users\\...\\888.pdf", "Message": null, "RowID": 888, "Succeed": true}
{"File": "C:\\Users\\...\\889.pdf", "Message": null, "RowID": 889, "Succeed": true}
{"File": "C:\\Users\\...\\890.pdf", "Message": null, "RowID": 890, "Succeed": true}
{"File": "C:\\Users\\...\\891.pdf", "Message": null, "RowID": 891, "Succeed": true}
{"File": "C:\\Users\\...\\892.pdf", "Message": null, "RowID": 892, "Succeed": true}
{"File": "C:\\Users\\...\\893.pdf", "Message": null, "RowID": 893, "Succeed": true}
{"File": "C:\\Users\\...\\894.pdf", "Message": null, "RowID": 894, "Succeed": true}
{"File": "C:\\Users\\...\\895.pdf", "Message": null, "RowID": 895, "Succeed": true}
{"File": "C:\\Users\\...\\896.pdf", "Message": null, "RowID": 896, "Succeed": true}
{"File": "C:\\Users\\...\\897.pdf", "Message": null, "RowID": 897, "Succeed": true}
{"File": "C:\\Users\\...\\898.pdf", "Message": null, "RowID": 898, "Succeed": true}
{"File": "C:\\Users\\...\\899.pdf", "Message": null, "RowID": 899, "Succeed": true}
----- Finished -----
Press Any Key to Continue..

```

A shows the message that appears when all PDFs have been successfully filled out and created .

```

Microsoft Visual Studio...
fileMode mode, FileAccess access, FileShare share, FileOptions options, Int64 preallocationSize)\r\n at System.IO.File.
Create(String path)\r\n at BulkPDF_Business_Core.DocumentClasses.PDFTargetAcroforms.Save() in C:\\Users\\tadel\\Github\\BulkPDF
\\BulkPDF-Business\\BulkPDF-Business-Core\\DocumentClasses\\PDFTarget\\PDFTargetAcroforms.cs:line 80\r\n at BulkPDF_Bu
siness_Core.DocumentClasses.PDFFiller.FillPDFAndSave(Configuration20211011 rdc, Action`3 updatePercentageAction, Func`1
checkIfAbortedAction, Action`1 errorOccurred, Action`1 newProcessedFilesInformation) in C:\\Users\\tadel\\Github\\BulkPDF
-Business\\BulkPDF-Business-Core\\DocumentClasses\\PDFFiller.cs:line 109, "RowID": 877, "Succeed": false}
{"File": "C:\\Users\\...\\878.pdf", "Message": null, "RowID": 878, "Succeed": true}
{"File": "C:\\Users\\...\\879.pdf", "Message": null, "RowID": 879, "Succeed": true}
{"File": "C:\\Users\\...\\880.pdf", "Message": null, "RowID": 880, "Succeed": true}
{"File": "C:\\Users\\...\\881.pdf", "Message": null, "RowID": 881, "Succeed": true}
{"File": "C:\\Users\\...\\882.pdf", "Message": null, "RowID": 882, "Succeed": true}
{"File": "C:\\Users\\...\\883.pdf", "Message": null, "RowID": 883, "Succeed": true}
{"File": "C:\\Users\\...\\884.pdf", "Message": null, "RowID": 884, "Succeed": true}
{"File": "C:\\Users\\...\\885.pdf", "Message": null, "RowID": 885, "Succeed": true}
{"File": "C:\\Users\\...\\886.pdf", "Message": null, "RowID": 886, "Succeed": true}
{"File": "C:\\Users\\...\\887.pdf", "Message": null, "RowID": 887, "Succeed": true}
{"File": "C:\\Users\\...\\888.pdf", "Message": null, "RowID": 888, "Succeed": true}
{"File": "C:\\Users\\...\\889.pdf", "Message": null, "RowID": 889, "Succeed": true}
{"File": "C:\\Users\\...\\890.pdf", "Message": null, "RowID": 890, "Succeed": true}
{"File": "C:\\Users\\...\\891.pdf", "Message": null, "RowID": 891, "Succeed": true}
{"File": "C:\\Users\\...\\892.pdf", "Message": null, "RowID": 892, "Succeed": true}
{"File": "C:\\Users\\...\\893.pdf", "Message": null, "RowID": 893, "Succeed": true}
{"File": "C:\\Users\\...\\894.pdf", "Message": null, "RowID": 894, "Succeed": true}
{"File": "C:\\Users\\...\\895.pdf", "Message": null, "RowID": 895, "Succeed": true}
{"File": "C:\\Users\\...\\896.pdf", "Message": null, "RowID": 896, "Succeed": true}
{"File": "C:\\Users\\...\\897.pdf", "Message": null, "RowID": 897, "Succeed": true}
{"File": "C:\\Users\\...\\898.pdf", "Message": null, "RowID": 898, "Succeed": true}
{"File": "C:\\Users\\...\\899.pdf", "Message": null, "RowID": 899, "Succeed": true}
----- Finished with Errors -----
Press Any Key to Continue..

```

At A you can see the message ("Finished with error"), which appears when not all PDFs could be created successfully. The error must then be looked for in the lines above. It should also be mentioned that the exit code of the console application is 0 if there were no errors and 1 if at least one error occurred and therefore at least 1 PDF file could not be created.

So you can, for example, check in a batch file at %errorlevel% to see if there were any errors.

```

{"File": "C:\\Users\\tadel\\Documents\\[redacted] 871.pdf", "Message": null, "RowID": 871, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 872.pdf", "Message": null, "RowID": 872, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 873.pdf", "Message": null, "RowID": 873, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 874.pdf", "Message": null, "RowID": 874, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 875.pdf", "Message": null, "RowID": 875, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 876.pdf", "Message": null, "RowID": 876, "Succeed": true}
SupportCode: [redacted]
[redacted] hier in zeile 877. Datei konnte nicht erstellt werden. [The process cannot access the file 'C:\\Users\\tadel\\Documents\\[redacted] 877.pdf' because it is being used by another process.]
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 877.pdf", "Message": "System.IO.IOException: The process cannot access the file 'C:\\Users\\tadel\\Documents\\[redacted] 877.pdf' because it is being used by another process.\\r\\n at Microsoft.Win32.SafeHandles.SafeFileHandle.CreateFile(String fullPath, FileMode mode, FileAccess access, FileShare share, FileOptions options)\\r\\n at Microsoft.Win32.SafeHandles.SafeFileHandle.Open(String fullPath, FileMode mode, FileAccess access, FileShare share, FileOptions options, Int64 preallocationSize)\\r\\n at System.IO.Strategies.OSFileStreamStrategy..ctor(String path, FileMode mode, FileAccess access, FileShare share, FileOptions options, Int64 preallocationSize)\\r\\n at System.IO.File.Create(String path)\\r\\n at BulkPDF_Business_Core.DocumentClasses.PDFTargetAcroforms.Save() in C:\\Users\\tadel\\Github\\BulkPDF-Business-Core\\DocumentClasses\\PDFTarget\\PDFTargetAcroforms.cs:line 80\\r\\n at BulkPDF_Business_Core.DocumentClasses.PDFFiller.FillPDFAndSave(Configuration20211011 rdc, Action`3 updatePercentageAction, Func`1 checkIfAbortedAction, Action`1 errorOccured, Action`1 newProcessedFilesInformation) in C:\\Users\\tadel\\Github\\BulkPDF-Business-Core\\DocumentClasses\\PDFFiller.cs:line 109", "RowID": 877, "Succeed": false}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 878.pdf", "Message": null, "RowID": 878, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 879.pdf", "Message": null, "RowID": 879, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 880.pdf", "Message": null, "RowID": 880, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 881.pdf", "Message": null, "RowID": 881, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 882.pdf", "Message": null, "RowID": 882, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 883.pdf", "Message": null, "RowID": 883, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 884.pdf", "Message": null, "RowID": 884, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 885.pdf", "Message": null, "RowID": 885, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 886.pdf", "Message": null, "RowID": 886, "Succeed": true}
{"File": "C:\\Users\\tadel\\Documents\\[redacted] 887.pdf", "Message": null, "RowID": 887, "Succeed": true}

```

**A Support Code:** Please add the code in the subject line of support emails.

**B** Here you can see the error text in “Message”, which can be sent as a copy to support if necessary.

# 5

## Configuration files

This file is encoded in JSON format[ 5], reasonably readable for humans and can be edited manually with any text editor if necessary. To analyse the functionality and possibilities, the example configuration (see Section 2.1) .

### 5.1 Relative paths

Relative paths[ 6] can be used in the configuration file . Environment variables, such as %USERPROFILE%, are resolved by BulkPDF Business. Following from the example configuration (see section 2.1) , relative paths that are used for the Data source, PDF form and output directory can be used:

```
1  ...
2  "DataSource": {
3    "$id": "40",
4    "$type": ... ,
5    "filePath": "\\ProcessExample.xlsx"
6  },
7  ...
```

```
1  ...
2  "PDFSource": {
3    "$id": "48",
4    "$type": ... ,
5    "Author": "",
6    "CreationDate": "2021-12-01T14:14:19",
7    "Creator": ... ,
8    "IsXfa": false,
9    "Keywords": "",
10   "ModificationDate": "2021-12-03T19:14:42",
11   "Producer": ... ,
12   "Subject": "",
13   "Title": "",
14   "SourceFilePath": ".\\ProcessExample.pdf"
15  },
16  ...
```

```
1  ...
2  "OutputPath": "%USERPROFILE%\\Downloads",
3  ...
```

## 5.2 Example excerpts from a configuration file

Below are some example extracts, excluding "DataSource" and "PDFSource", because these have already been dealt with.

## 5.2.1 NormalFields

```
1  ...
2  "NormalFields": [
3    {
4      "$id": "2",
5      "$type": ... ,
6      "FieldType": "TextBox",
7      "CurrentValue": "",
8      "FieldSettableOptions": {
9        "$id": "3",
10       "$type": ... ,
11       "ValueSource": {
12         "$id": "4",
13         "$type": ... ,
14         "Constant": "",
15         "DataSource": "First Name"
16       },
17       "WriteProtection": false
18     },
19     "HasBeenEdited": true,
20     "Name first Name",
21     "Preview": "First name"
22   },
23  ...
```

## 5.2.2 SpecialFields

```
1  ...
2  "SpecialFields": [
3    {
4      "$id": "32",
5      "$type": "...",
6      "barcode": {
7        "$id": "33",
8        "$type": "...QRBarcode...",
9        "Version": 1,
10       "ErrorCorrectionLevel": 7,
11       "InputMode": 2,
12       "Size": "100, 100",
13     }
14   }
15 ]
```

## 5.2.3 Global options

```
1  ...
2  "RowIndexessWhichShouldBePrinted": [],
3  ...
4  "Compression": false,
5  ...
6  "GlobalWriteProtection": false,
7  ...
8  "OutputPath": "%USERPROFILE%\Downloads",
9  ...
10 "SelectedTableName": "Table1 (Customer data)"
11 ...
```

## 5.2.4 FilenameGenerator

```
1  ...
2  "FilenameGenerator": {
3    "$id": "41",
4    "$type": ... ,
5    "FilenameParts": [
6      {
7        "$id": "42",
8        "$type": ... ,
9        "Preview": "17.12.2021",
10       "Type": "Date / Time",
11       "Data": "dd.MM.yyyy",
12       "Identifier": 8
13     },
14  ...
```



## 5.2.5 Email

```

1  ...
2  "Letters": {
3    "$id": "52",
4    "$type": ...,
5    "FileType": 0,
6    "Sender": {
7      "$type": ...,
8      "Constant": "julien.bartels@bulkpdf.de<Julien Bartels>"
9    },
10   "Subject": {
11     "$type": ...,
12     "Constant": "Current positive developments in {location}"
13   },
14   "Draft": true,
15   "RecipientsTo": {
16     "$type": ...,
17     "Constant": "support@bulkpdf.de<Support-Team>"
18   },
19   "RecipientsCC": {
20     "$type": ...
21   },
22   "RecipientsBCC": {
23     "$type": ...
24   },
25   "BodyText": {
26     "$type": ...,
27     "Constant": "Dear Mr. {Last Name (Textbox)},\r\n\r\n
28     I see the current developments in {place} as extremely
29     positive. Attached are the relevant documents.\r\n\r\n
30     With kind regards"
31   },
32   "BodyHTML": {
33     "$type": ...
34   },
35   "LetterImportanceValueSource": {
36     "$type": ...,
37     "Constant": "2"
38   },
39   "AddAttachmentsGeneratedPDFFilePath": true,
40   "AttachmentsAdditionalFilePaths": {
41     "$type": ...,
42     "Constant": ".\\ProcessExample.pdf"
43   }
44 }
45 ...

```



## Tips and tricks

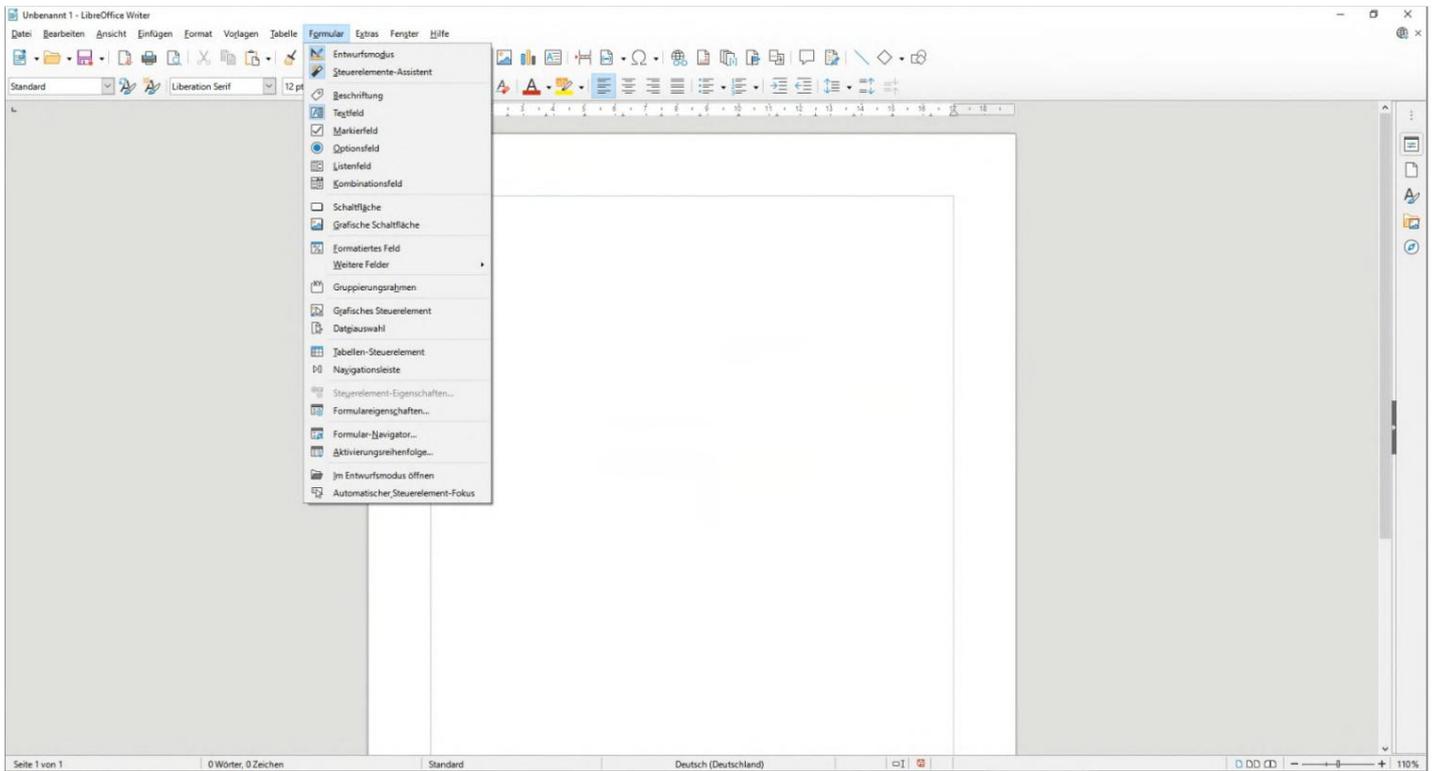
A small selection of tips and tricks that will help you create PDF documents can help.

### **6.1 Create or repair PDF forms with PDFescape**

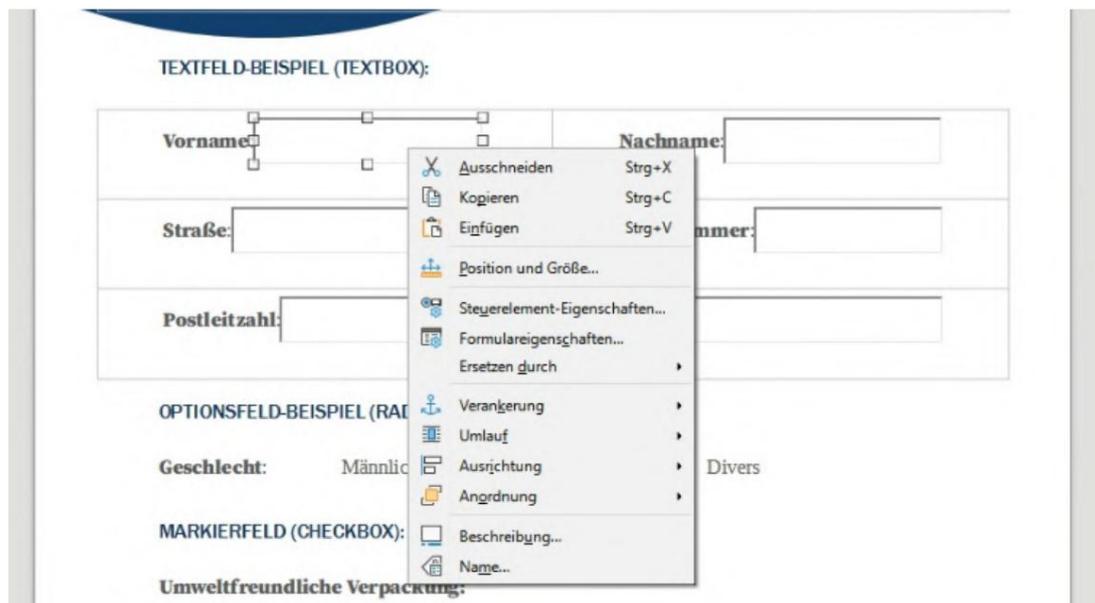
To create and repair public PDF forms, we recommend <https://www.pdfescape.com/>. For some PDF forms, it may be helpful to upload the PDF once and download it again straight away so that the PDF is again compatible with the most common PDF readers.[ 4 ]

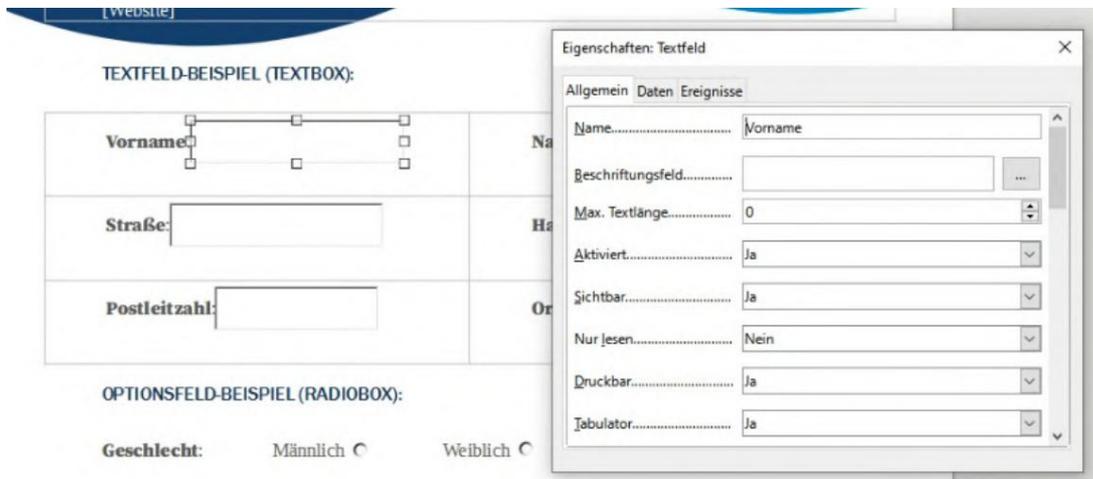
### **6.2 Creating PDF forms with LibreOffice / OpenOffice Writer**

LibreOffice is a collection of office software. The software is completely free, compatible with Microsoft Office and is available at <http://www.libreoffice.org/> available for download. The software offers the possibility of creating PDF forms.[3] How this works in practice is shown below as an example.

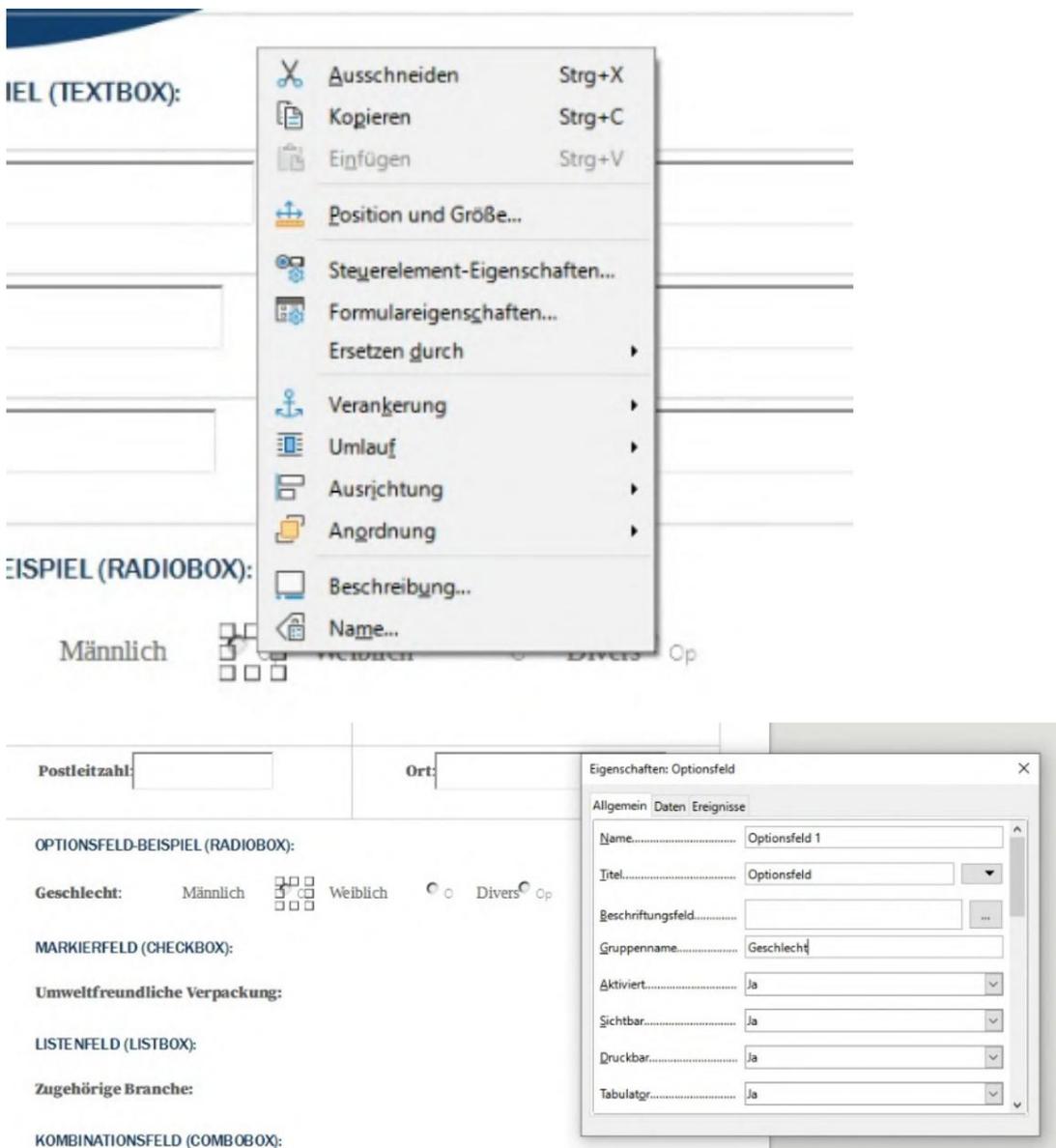


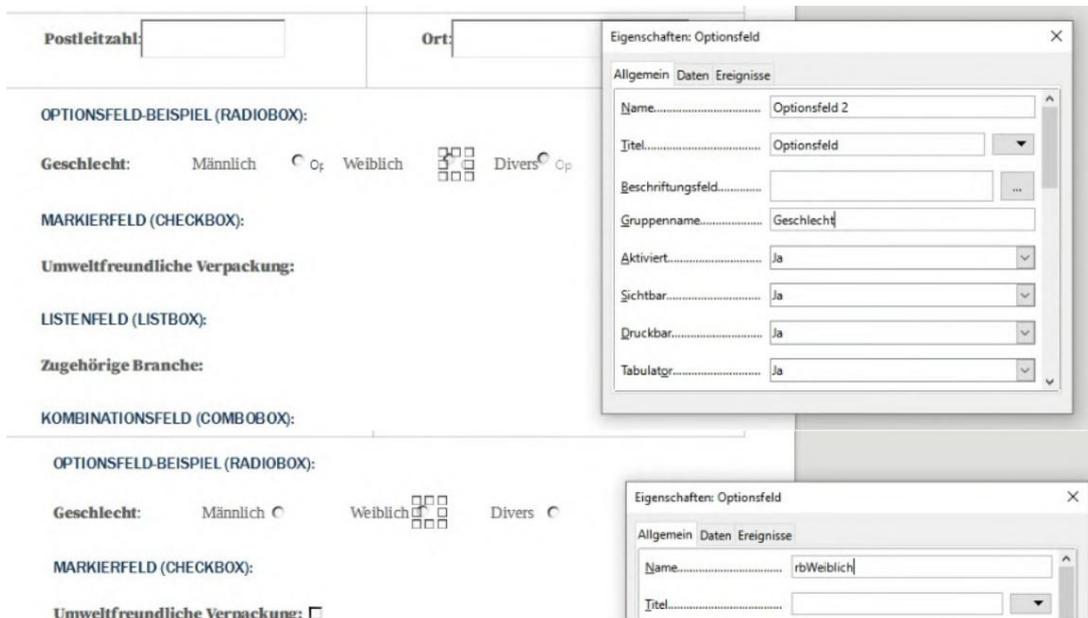
### 6.2.1 Text field example (text box)



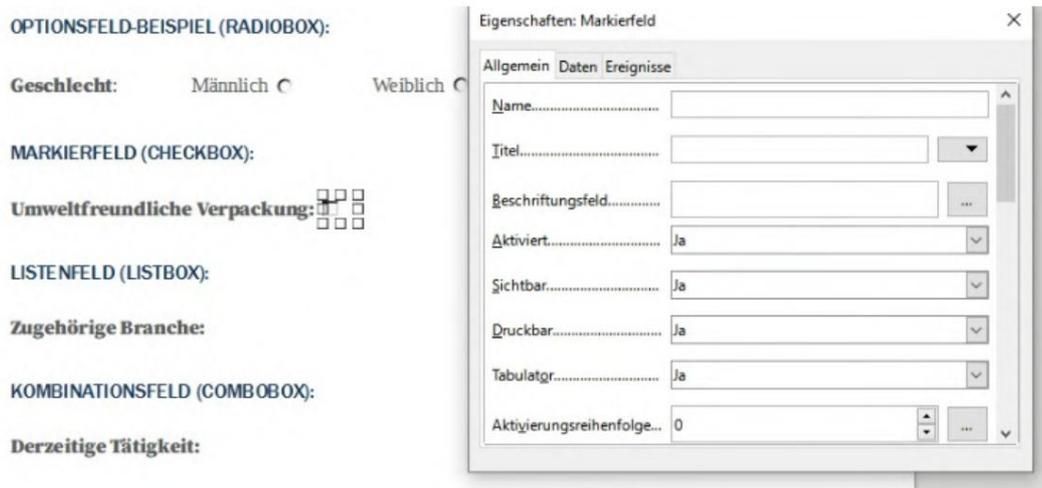


### 6.2.2 Radio button example





### 6.2.3 Checkbox



### 6.2.4 List box

**Straße:**

**Hausnummer:**

**Postleitzahl:**

**OPTIONSFELD-BEISPIEL (RADIOBOX):**

**Geschlecht:** Männlich  Weiblich

**MARKIERFELD (CHECKBOX):**

**Umweltfreundliche Verpackung:**

**LISTENFELD (LISTBOX):**

**Zugehörige Branche:**

**OPTIONSFELD-BEISPIEL (RADIOBOX):**

**Geschlecht:** Männlich  Weiblich  Divers

**MARKIERFELD (CHECKBOX):**

**Umweltfreundliche Verpackung:**

**LISTENFELD (LISTBOX):**

**Zugehörige Branche:**

**KOMBINATIONSFELD (COMBOBOX):**

**Derzeitige Tätigkeit:**

-  Ausschneiden Strg+X
-  Kopieren Strg+C
-  Einfügen Strg+V
-  Position und Größe...
-  Steuererelement-Eigenschaften...
-  Formulareigenschaften...
- Ersetzen durch ▶
-  Verankerung ▶
-  Umlauf ▶
-  Ausrichtung ▶
-  Anordnung ▶
-  Beschreibung...
-  Name...

**Eigenschaften: Listenfeld**

Allgemein Daten Ereignisse

Datenfeld.....

Eingabe erforderlich...

Art des Listeninhalts...

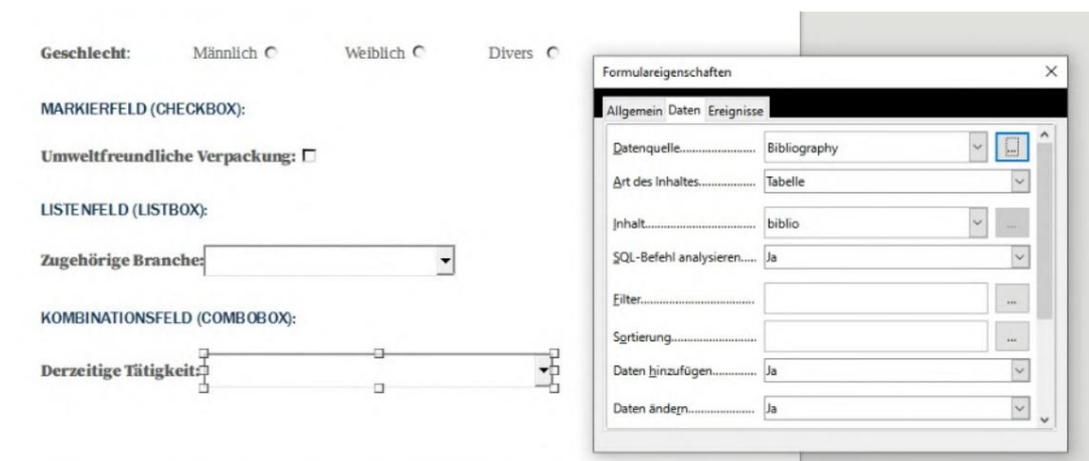
Listeninhalt.....

Gebundenes Feld.....

IT  
Industrial  
Cake-Factory

OK

## 6.2.5 Combo box



## 6.3 Create signature

You can create a signature in Acrobat Reader. For information, see <https://helpx.adobe.com/sign/using/create-electronic-signature.html/>. After you create a signature using Acrobat, you can find this signature as a .pfx file under the path %appdata%\Adobe\Acrobat\DC\Security. This .pfx file can then be used in BulkPDF. (Note the password entry.)

## 6.4 Date formatting

A formatting string is used to format the date. This string consists of a few characters that define the format. For example, the format **dd.mm.yyyy** is a valid date format that outputs the day, month and year (example: 11/25/2021).

See the following table from the Microsoft .NET documentation[2]:

Format specifier	Description	Examples
"d"	The day of the month, from 1 to 31. More information: The "d" Custom Format Specifier.	2009-06-01T13:45:30 ->1 2009-06-15T13:45:30 ->15
"dd"	The day of the month, from 01 to 31. More information: The "dd" Custom Format Specifier.	2009-06-01T13:45:30 ->01 2009-06-15T13:45:30 ->15
"ddd"	The abbreviated name of the day of the week. More information: The "ddd" Custom Format Specifier.	2009-06-15T13:45:30 ->Mon (en-US) 2009-06-15T13:45:30 -> (ru-RU) 2009-06-15T13:45:30 ->lun. (fr-FR)
"dddd"	The full name of the day of the week. More information: The "dddd" Custom Format Specifier.	2009-06-15T13:45:30 ->Monday (en-US) 2009-06-15T13:45:30 -> (ru-RU) 2009-06-15T13:45:30 ->lundi (fr-FR)
"f"	The tenths of a second in a date and time value. More information: The "f" Custom Format Specifier.	2009-06-15T13:45:30.6170000 ->6 2009-06-15T13:45:30.05 ->0

"f"	The hundredths of a second in a date and time value. More information: The "f" Custom Format Specifier.	2009-06-15T13:45:30.6170000 ->61 2009-06-15T13:45:30.0050000 ->00
"fff"	The milliseconds in a date and time value. More information: The "fff" Custom Format Specifier.	6/15/2009 13:45:30.617 ->617 6/15/2009 13:45:30.0005 ->000
"ffff"	The ten thousandths of a second in a date and time value. More information: The "ffff" Custom Format Specifier.	2009-06-15T13:45:30.6175000 ->6175 2009-06-15T13:45:30.0000500 ->0000
"fffff"	The hundred thousandths of a second in a date and time value. More information: The "fffff" Custom Format Specifier.	2009-06-15T13:45:30.6175400 ->61754 6/15/2009 13:45:30.000005 ->00000
"ffffff"	The millionths of a second in a date and time value. More information: The "ffffff" Custom Format Specifier.	2009-06-15T13:45:30.6175420 ->617542 2009-06-15T13:45:30.0000005 ->000000
"fffffff"	The ten millionths of a second in a date and time value. More information: The "fffffff" Custom Format Specifier.	2009-06-15T13:45:30.6175425 ->6175425 2009-06-15T13:45:30.0001150 ->0001150
"F"	If non-zero, the tenths of a second in a date and time value. More information: The "F" Custom Format Specifier.	2009-06-15T13:45:30.6170000 ->6 2009-06-15T13:45:30.0500000 ->(no output)
"FF"	If non-zero, the hundredths of a second in a date and time value. More information: The "FF" Custom Format Specifier.	2009-06-15T13:45:30.6170000 ->61 2009-06-15T13:45:30.0050000 ->(no output)
"FFF"	If non-zero, the milliseconds in a date and time value. More information: The "FFF" Custom Format Specifier.	2009-06-15T13:45:30.6170000 ->617 2009-06-15T13:45:30.0005000 ->(no output)
"FFFF"	If non-zero, the ten thousandths of a second in a date and time value. More information: The "FFFF" Custom Format Specifier.	2009-06-15T13:45:30.6175000 ->6175 2009-06-15T13:45:30.0000500 ->(no output)
"FFFFF"	If non-zero, the hundred thousandths of a second in a date and time value. More information: The "FFFFF" Custom Format Specifier.	2009-06-15T13:45:30.6175400 ->61754 2009-06-15T13:45:30.0000050 ->(no output)
"FFFFFF"	If non-zero, the millionths of a second in a date and time value. More information: The "FFFFFF" Custom Format Specifier.	2009-06-15T13:45:30.6175420 ->617542 2009-06-15T13:45:30.0000005 ->(no output)
"FFFFFFF"	If non-zero, the ten millionths of a second in a date and time value. More information: The "FFFFFFF" Custom Format Specifier.	2009-06-15T13:45:30.6175425 ->6175425 2009-06-15T13:45:30.0001150 ->000115
"g", "gg"	The period or era. More information: The "g" or "gg" Custom Format Specifier.	2009-06-15T13:45:30.6170000 ->AD
"h"	The hour, using a 12-hour clock from 1 to 12. More information: The "h" Custom Format Specifier.	2009-06-15T01:45:30 ->1 2009-06-15T13:45:30 ->1
"hh"	The hour, using a 12-hour clock from 01 to 12. More information: The "hh" Custom Format Specifier.	2009-06-15T01:45:30 ->01 2009-06-15T13:45:30 ->01
"H"	The hour, using a 24-hour clock from 0 to 23. More information: The "H" Custom Format Specifier.	2009-06-15T01:45:30 ->1 2009-06-15T13:45:30 ->13
"HH"	The hour, using a 24-hour clock from 00 to 23. More information: The "HH" Custom Format Specifier.	2009-06-15T01:45:30 ->01 2009-06-15T13:45:30 ->13
"K"	Time zone information. More information: The "K" Custom Format Specifier.	With DateTime values: 2009-06-15T13:45:30, Child Unspecified -> 2009-06-15T13:45:30, Kind Utc ->Z 2009-06-15T13:45:30, Kind Local ->-07:00 (depends on local computer settings) With DateTimeOffset values: 2009-06-15T01:45:30-07:00 ->-07:00 2009-06-15T08:45:30+00:00 ->+00:00
"m"	The minute, from 0 to 59. More information: The "m" Custom Format Specifier.	2009-06-15T01:09:30 ->9 2009-06-15T13:29:30 ->29
"mm"	The minute, from 00 to 59. More information: The "mm" Custom Format Specifier.	2009-06-15T01:09:30 ->09 2009-06-15T01:45:30 ->45
"M"	The month, from 1 through 12. More information: The "M" Custom Format Specifier.	2009-06-15T13:45:30 ->6
"MM"	The month, from 01 through 12. More information: The "MM" Custom Format Specifier.	2009-06-15T13:45:30 ->06

"MMMM"	The abbreviated name of the month.  More information: The "MMM" Custom Format Specifier.	2009-06-15T13:45:30 ->Jun (en-US)  2009-06-15T13:45:30 ->juin (fr-FR)  2009-06-15T13:45:30 ->Jun (zu-ZA)
"MMMM"	The full name of the month.  More information: The "MMMM" Custom Format Specifier.	2009-06-15T13:45:30 ->June (en-US)  2009-06-15T13:45:30 ->June (da-DK)  2009-06-15T13:45:30 ->uJune (zu-ZA)
"s"	The second, from 0 through 59.  More information: The "s" Custom Format Specifier.	2009-06-15T13:45:09 ->9
"ss"	The second, from 00 through 59.  More information: The "ss" Custom Format Specifier.	2009-06-15T13:45:09 ->09
"t"	The first character of the AM/PM designator.  More information: The "t" Custom Format Specifier.	2009-06-15T13:45:30 ->P (en-US)  2009-06-15T13:45:30 -> (yes-JP)  2009-06-15T13:45:30 ->(fr-FR)
"tt"	The AM/PM designator.  More information: The "tt" Custom Format Specifier.	2009-06-15T13:45:30 ->PM (en-US)  2009-06-15T13:45:30 -> (yes-JP)  2009-06-15T13:45:30 ->(fr-FR)
"y"	The year, from 0 to 99.  More information: The "y" Custom Format Specifier.	0001-01-01T00:00:00 ->1  0900-01-01T00:00:00 ->0  1900-01-01T00:00:00 ->0  2009-06-15T13:45:30 ->9  2019-06-15T13:45:30 ->19
"yyyy"	The year, from 00 to 99.  More information: The "yy" Custom Format Specifier.	0001-01-01T00:00:00 ->01  0900-01-01T00:00:00 ->00  1900-01-01T00:00:00 ->00  2019-06-15T13:45:30 ->19
"yyyy"	The year, with a minimum of three digits.  More information: The "yyy" Custom Format Specifier.	0001-01-01T00:00:00 ->001  0900-01-01T00:00:00 ->900  1900-01-01T00:00:00 ->1900  2009-06-15T13:45:30 ->2009
"yyyy"	The year as a four-digit number.  More information: The "yyyy" Custom Format Specifier.	0001-01-01T00:00:00 ->0001  0900-01-01T00:00:00 ->0900  1900-01-01T00:00:00 ->1900  2009-06-15T13:45:30 ->2009
"yyyyy"	The year as a five-digit number.  More information: The "yyyyy" Custom Format Specifier.	0001-01-01T00:00:00 ->00001  2009-06-15T13:45:30 ->02009
"z"	Hours offset from UTC, with no leading zeros.  More information: The "z" Custom Format Specifier.	2009-06-15T13:45:30-07:00 ->-7
"zz"	Hours offset from UTC, with a leading zero for a single-digit value.  More information: The "zz" Custom Format Specifier.	2009-06-15T13:45:30-07:00 ->-07
"zzz"	Hours and minutes offset from UTC.  More information: The "zzz" Custom Format Specifier.	2009-06-15T13:45:30-07:00 ->-07:00
":"	The time separator.  More information: The ":" Custom Format Specifier.	2009-06-15T13:45:30 ->: (en-US)  2009-06-15T13:45:30 ->. (it-IT)  2009-06-15T13:45:30 ->: (yes-JP)
"/"	The date separator.  More information: The "/" Custom Format Specifier.	2009-06-15T13:45:30 ->/ (en-US)  2009-06-15T13:45:30 ->. (ar-DZ)  2009-06-15T13:45:30 ->. (tr-TR)

"strings"	String delimiter.	2009-06-15T13:45:30 ("arr:" h:mt) ->arr: 1:45 P
'string'	More information: Character literals.	2009-06-15T13:45:30 ('arr:' h:mt) ->arr: 1:45 P
%	Defines the following character as a custom format specifier. More information: Using Single Custom Format Specifiers.	2009-06-15T13:45:30 (%h) ->1
\	The escape character. More information: Character literals and Using the Escape Character.	2009-06-15T13:45:30 (h \h) ->1 h
Any other character	The character is copied to the result string unchanged. More information: Character literals.	2009-06-15T01:45:30 (arr hh:mm t) ->arr 01:45 A

## 6.5 Connection string

Examples of valid connection strings for a connection with user name and password would be these

```
1 Server=myServer;Database=myDataBase;User Id=myUser;Password=myPassword;
```

and for a "Trusted Connection" via Active Directory login:

```
1 Server=myServer;Database=myDataBase;Trusted_Connection=True;
```

For further examples please have a look at the following website <https://www.connectionstrings.com/sql-server/> .

## 6.6 Simultaneous printing of documents

If all the documents created are to be printed physically immediately, the button "Merge all documents and open standard PDF viewer (e.g. for mass printing)" can be used on the last program page. After further confirmation, this recreates all the documents and combines them into a single PDF document. The created document is then opened in the standard PDF viewer and can be printed immediately from there.

There you can also use the print options to set the pages that should not be printed.



## Frequently Asked Questions (FAQs)

### **7.1 What are the system requirements for BulkPDF Business?**

Compatible with Windows 7, Windows 8, Windows 10 and Windows 11.  
Approximately 500 MB of storage space is required for installation. The program requires a one-time Internet connection for license activation.

### **7.2 BulkPDF cannot be installed. [Windows SmartScreen]**

If a double-click on the downloaded installation file displays a Messages such as “Windows has protected your computer” or “Windows SmartScreen prevented an unknown app from starting” must be Installation clicked on the text “More information” within the window and then click “Run anyway”.

Such a message is displayed by Microsoft when an executable program has been created relatively recently and is not yet known to Microsoft. Microsoft will automatically upload the exe file in the background, analyze it and only This message will no longer be displayed to others if the program version has already been used on many computers for some time. Therefore, the Unfortunately, this problem occurs again with every new version of the program.

### **7.3 If my files or data are uploaded or left my computer in any way?**

**No!** Your data remains on your computer alone. BulkPDF does not download any of your Data is uploaded to a server. The program only establishes a connection to the BulkPDF servers in a few cases. These cases include the one-time license activation, the search for program updates and the check whether a license is currently being used on several computers at the same time.

### **7.4 Is the program available for Mac OS?**

No, but with "Parallels Desktop for Mac" you can run the program on your Mac. (See <https://www.parallels.com/>)

### **7.5 How many users may use a license simultaneously? be detected?**

This depends on the offer selected. Single licenses may only be used by one user at a time, whereas a terminal server license, for example, may be used by several users at the same time, depending on the offer.  
may be.

### **7.6 On how many computers can a license be used?**

A license can be installed on multiple computers, but can only be used by one of these computers at a time. When the application is started and during use, it is checked whether the license is already being used on more than one computer. If this is the case, the program is thrown back into demo mode until the computer is again the only one using the software license. Until then, no progress is lost and the program does not close automatically or anything like that. The only difference is that a watermark appears on the PDF documents created again and the number of PDF documents that can be created simultaneously is limited again.

### **7.7 I get the following message "The license key is currently already used by multiple devices". What does that mean?**

This means that the license has currently been used on multiple computers in the last 15 minutes and may not be used on any other computer at the same time. If you have used the license on multiple computers in the last 15

minutes at the same time and the program has now been closed again, you will be able to run BulkPDF Business again on the current computer after 15 minutes at the latest. If this is not the case and you do not know of any other computer on which the program is currently running, license code theft cannot be ruled out. In this case, please contact support so that we can find a solution together so that you can work again.

### **7.8 In the PDF preview, the form fields are not displayed at the correct position or shifted**

In this case, please use the "Open in system PDF viewer" button and check whether the document is displayed correctly there. In rare cases, the preview may process the PDF files differently than, for example, Acrobat Reader or your web browser.

### **7.9 No PDF form fields are supported in BulkPDF Business displayed**

BulkPDF requires PDF form elements in the PDF document. If, for example, a PDF document is printed and then scanned again, it is no longer a PDF form document. The PDF document

is then simply a multi-page image, without the technical background data that PDF form documents contain. Without this background data, BulkPDF Business can no longer fill in the fields.

**Solution 1** You can overlay the image with a BulkPDF Business special field.

For example, you can place a text field, a check box or a radio button as a special field over the image and then fill the special field with your data source. You can find more information about this in section [1.5.4](#).

**Solution 2** You can use suitable software to create new PDF form elements and place them over the fields shown in the image. BulkPDF Business will then find these and allow the fields to be filled in automatically.

### **7.10 Unicode characters in Acrobat Reader are not displayed correctly (Chinese, Cyrillic, Arabic, etc)**

To correctly display Unicode characters in Acrobat Reader, an additional font package is required.

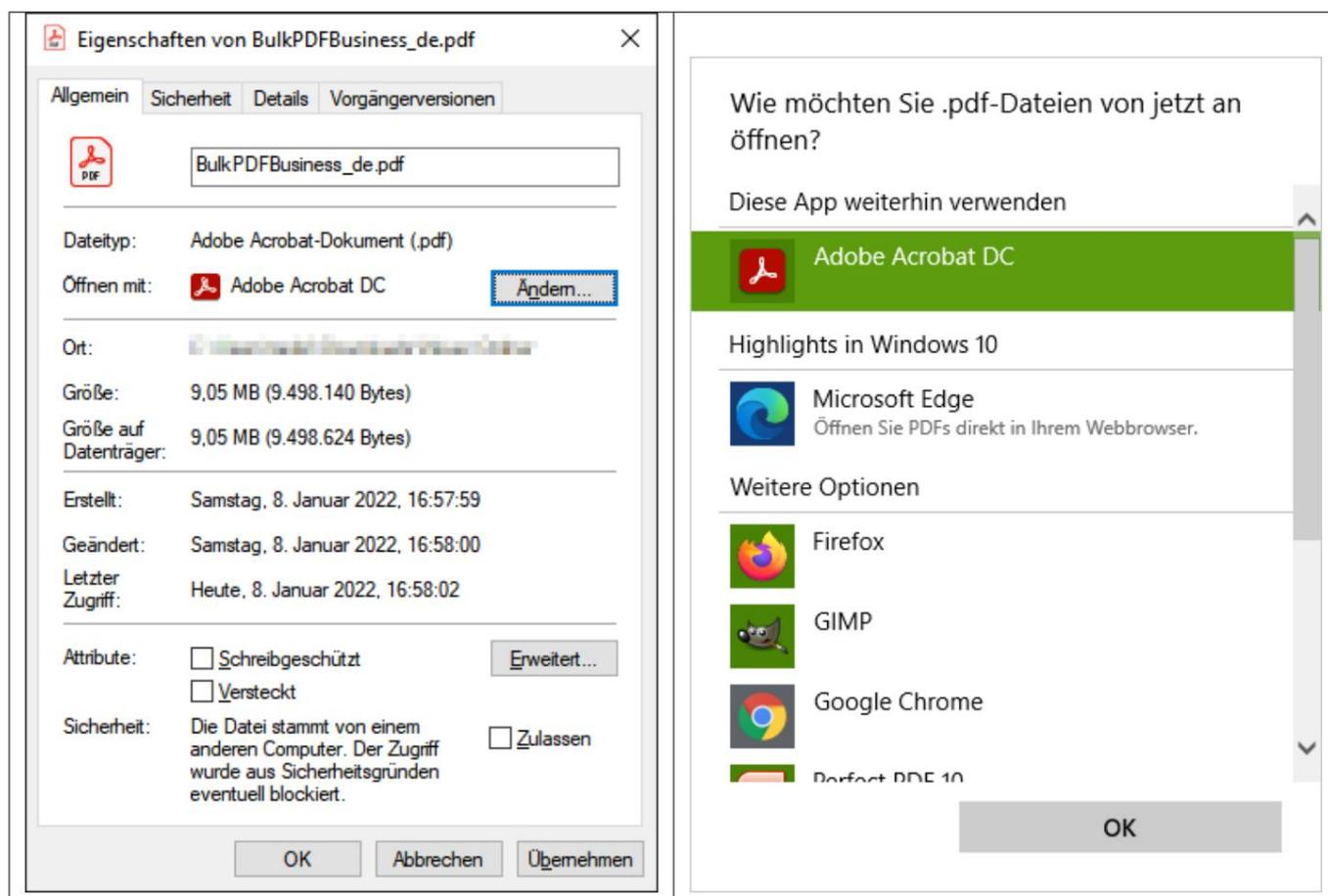
For 32 bit installations, the font package is available at <https://helpx.adobe.com/acrobat/kb/windows-font-packs-32-bit-reader.html> to find.

For 64-bit installations, the font package is available at <https://helpx.adobe.com/acrobat/kb/font-pack-spelling-dictionary-64-bit-windows.html> ready for downloading.

### 7.11 Windows always opens the wrong PDF viewer or the web browser (Chrome, Edge) to view PDF files

For example, if the Edge browser or another unwanted browser is always program opens when you double-click on a PDF file, the default PDF viewer is set incorrectly. This can be changed by clicking on a PDF file and click on “Properties” in the menu that appears. In the window that then opens, under the item “Open with:” on the button “Change” you can open the menu to set the default PDF display program. There you will then most likely select the

“Adobe Acrobat” program if you have it installed.



## **7.12 System.InvalidCastException: Could not convert data to boolean**

This error occurs when you try to write a non-boolean value (yes or no) into a checkbox. Please read chapter 1.4.2 again for accepted values.

## **7.13 System.IndexOutOfRangeException: "Only X radio buttons in of the group. Selected index was Y."**

This error occurs when a higher number is used for radio buttons than there are in total. For example, the error occurs if there are only 3 'Radio Buttons' in the 'Radio Button' group and you try to enter a 4 in the field. 1 to 3 would have been valid values, since a 'Radio Button' exists for this index. For 4, on the other hand, no 'Radio button' exists, which is why the error is displayed.

## **7.14 System.InvalidOperationException: The 'Microsoft.ACE.OLEDB.12.0' provider is not registered on the local machine.**

This error occurs when the Microsoft Access Database Engine 2010 Redistributable 64 bit version is not installed on the computer. This can be done by Microsoft: <http://www.microsoft.com/en-us/download/details.aspx?id=13255>

## **7.15 No data is recognized in the Excel file.**

In this case, the necessary structure of the data is probably not maintained, for example, if there is an empty column or an empty row at the beginning of the table. A column is also considered empty if no column name is specified as text in the first row. Please take another look at the example

in section 1.3.2 .

## **7.16 The date field is additionally specified with 00:00:00. How can this be removed?**

To remove the time from the date, time/date formatting must be activated in the field and an appropriate formatting string must be inserted (see section 6.4). For example, the formatting string "dd.MM.yyyy" (case sensitive) results in "16.06.2022". The formatting string "MM-dd-yyyy" results in "16.06.2022".

“06-16-2022” and “dd/MM/yyyy” e.g. “16/06/2022”. See section 3.3.8 for more information .

### **7.17 I have my data source files (Excel, CSV, etc.) or moved my PDF file. Are my BulkPDF files still working? Business configuration file?**

Yes, but only after it contains a valid file path to the data source or PDF file. When opening the configuration file, BulkPDF Business will note that the file was not found and will allow you to select a new file path for the file. After that, the configuration will load normally again.

### **7.18 When calling the console application via a batch script, characters such as German umlauts are not transferred correctly**

In this case it is necessary to define the “Code Page” in the batch script.

For German umlauts, for example, this would be possible with the command "chcp 1252" which should be at the beginning of the script. For more information on "Code Page" see [https:// ss64.com/nt/chcp.html](https://ss64.com/nt/chcp.html).

### **7.19 Combinations of multiple columns for one field**

In BulkPDF Business it is not possible to use a function to merge data fields directly. However, you can use Excel functions in your XLSX file. For example, to merge data, you can use the Excel function CONCAT, which combines several cells into one

single cell. However, please note that the function name may vary depending on the system. After you have combined the desired data into a new column, it can be used in BulkPDF Business as a source

for a PDF form field.

### **7.20 “Checkbox” or “Radio button” should be according to data and preview in the XFA PDF, but in Acrobat Reader**

This is due to the limited compatibility with XFA. However, it is possible to make the elements read-only for all

other PDF viewers. After this adjustment the elements are correctly selected, but can no longer be changed. Currently we do not know of any method to pre-select these XFA elements to a specific value if it is an XFA document.

### **7.21 How can I change the number format in my generated PDF**

**correct it? It does not maintain the format set in the table. How can you, for example, enter numbers with two decimal places and a EUR symbol at the end?**

Excel stores numbers as pure values, with additional details such as the euro symbol considered metadata. One way to specify your desired format in BulkPDF Business is to convert your number into a text field.

This can be achieved with the Excel function =TEXT(A1;"###0,00 ")

For more information about Excel function and format option, see <https://support.microsoft.com/en-gb/office/text-function-20d5ac4d-7b94-49fd-bb38-93d29371>

# 8

## References

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<https://bulkpdf.de/>
  
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