



mailmerge

Reference Sheets

Information about this document

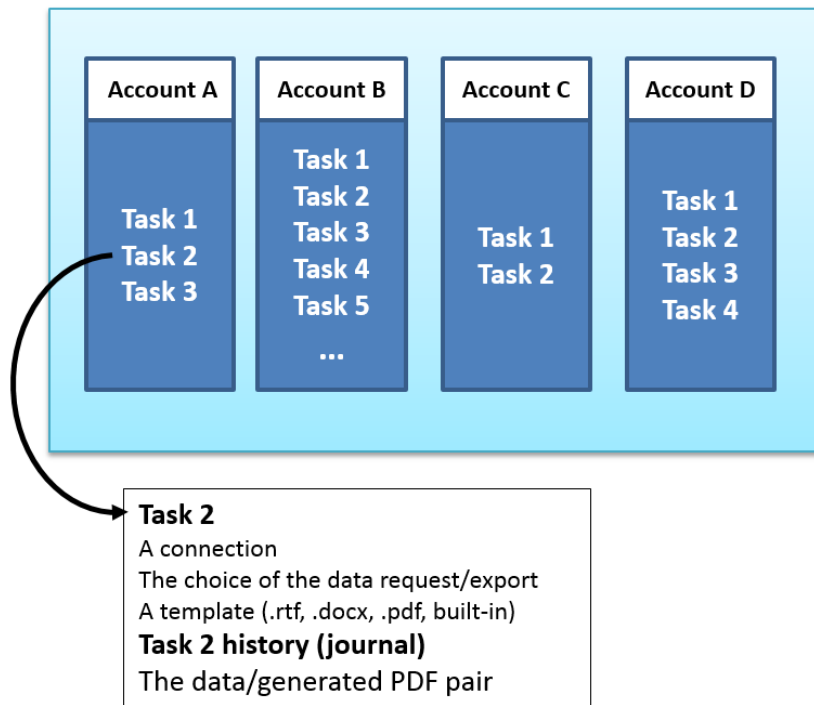
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The Mailmerge concept

Mailmerge is an application created on the Voozanoo 4 platform. The role of this application is to allow any person or process to merge a set of data and a document template to generate a PDF file for printing and ultimately postal mailing. A mail merge task connects to another Voozanoo 4 application (the Provider or target application) via a URL defined by the user in order to fetch data from the target application to fill in the template document. A Mailmerge task can be configured to retrieve data from a non-Voozanoo4 application as well.



A Mailmerge task = a connection + a data request (or export) + a model (template). Before creating a task, one must have a data source (the provider application) and a model (template).

Connexion

Login * **1**

Mot de passe * **2**

Adresse (URL) * **3**

Notifier les mailings **4** Oui
 Non

Specifying a connection to a data source

- From your home screen which displays the list of your mail merge tasks select **Action > Display data sources**.
- Click on **Create** to create a new connection.
- Enter the information associated with the target application (*provider*) from which you will retrieve your data.

1. Username: An account name created by the administrator (typically dedicated to use of Mailmerge which only allows reading records) of the target application which has the right to read all or some of the application's data.

2. Password: The password for that account

3. Application URL: L'URL de l'application ex: https://my_org.voozanoo.net/project_name

Select **yes** only if the target application manages the return of data about which lines of the dataquery were used during the execution of the mail merge task. Otherwise, select **no**.

A Mailmerge task = a connection + a data request or export + a model (template). The Overlay is where each variable is positioned over a static PDF model document. One uses the Overlay type model (template) typically where the document is preformatted, like a form, where there are specific places on the sheet of paper for the data to be placed.

MALARIA CASE SURVEILLANCE REPORT
 Department of Health and Human Services, Centers for Disease Control and Prevention
 Division of Parasitic Diseases (MS F-22), 4770 Buford Highway, N.E. Atlanta, Georgia 30341

Part I

State Case No.: <state_case_num> CSID No.: <case_id> Case No.: <case_num>

Patient name (last, first): <last_name> <first_name> Age: _____ yrs. mos. wks. days (circle units) Sex: **X<sex=male>**
 Date of symptom onset of this attack (mm/dd/yyyy): * <DATE_LONG> Is patient pregnant? Yes No **X<sex=female>**

Physician name (last, first): _____ Height: _____ ft. and _____ in. Weight: _____ lbs. Unknown

Telephone Number: () _____ - _____ Ethnicity: _____ Race (select one or more):
 Hispanic or Latino American Indian/Alaska Native
 Not Hispanic or Latino Native Hawaiian/Other Pacific Islander
 Asian White Unknown

Positive lab test result (check all that apply):
X<Smear=YeX<pcr=YeX<rdt=Yes> No test done/unknown

State/territory reporting this case: _____
 County: _____

En ligne

Overlay

When you create a task (see below for details), to use the Overlay method, choose **1 External file** as the model type and then upload **2** your document. Notice that there is also an optional second file you can upload **3** which will be used as a background. This is usually for a graphic or header that needs to be printed as well.

PDF format

The PDF file that you use as a model must be in version 1.4 or lower of the PDF format. Look at the file properties of your model to make sure. If you are creating the PDF document yourself using Microsoft Word, when you save the file as a .pdf, click on the **options...** in the save dialog box and check the option **ISO 19005-1 (PDF/A)** in order for it to be saved in version 1.4 usable for Mailmerge. Note: It is possible to transform a PDF file from a version higher than 1.4 to the version 1.4, see Annex 1.

Click the Calibration **4** button and then place the variables, fixed text and functions onto your template.

Malaria case report overlay example

There are some pre-established functions **5** that give the current date. Note that the texts that **6** cross over each other for **smear_ont**, **pcr**, and **rdt** are not errors. The **X** needs to be placed directly on the checkbox for these.

Sélectionner un modèle de document

2 Parcourir...

Upload finished

File name	Action
practice.pdf	Download the file - Delete

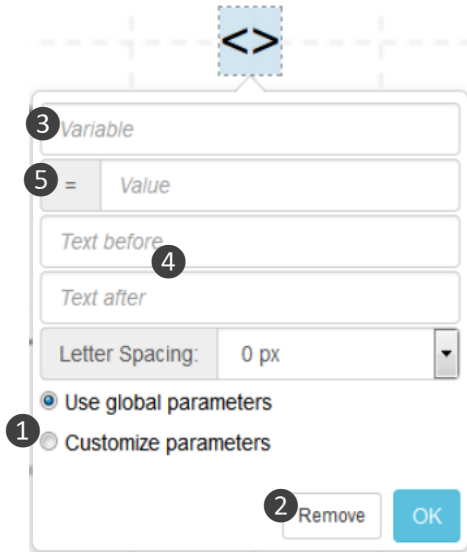
4 Calibrate

Sélectionner un fond de page si nécessaire

3 Parcourir...

File name	Action
No file loaded yet	

Start by dragging one of the three objects (<>, T, _F_) onto your PDF model as needed. Place the object exactly where you want it to display. The display of the text will follow the Global parameters for font and size that you have chosen.



Screen objects

You can modify ① the font, size, and spacing for a specific variable, text or function by clicking the option **Customise parameters** in this particular object's properties. To delete an object you have placed onto the template, click on the **Remove** ② button.

(T) Text This is simply a static text that you can place anywhere on the document.

(<>) Variable Once dragged onto the PDF, click in the field **Variable** ③ and select the variable to be placed onto the PDF template. You can place fixed text ④ before or after the variable if desired. The field **=Value** ⑤ has two use cases. See the cases in the grey info boxes to the left.

(_F_) The Fonction element In order to place the current date that the PDF Mailmerge is generated, you can drag the **__Fonction__** element onto the PDF template. The date can be displayed in one of three formats.

DATE_SHORT ex: 13/10/14

DATE_LONG ex: 13 October 2014

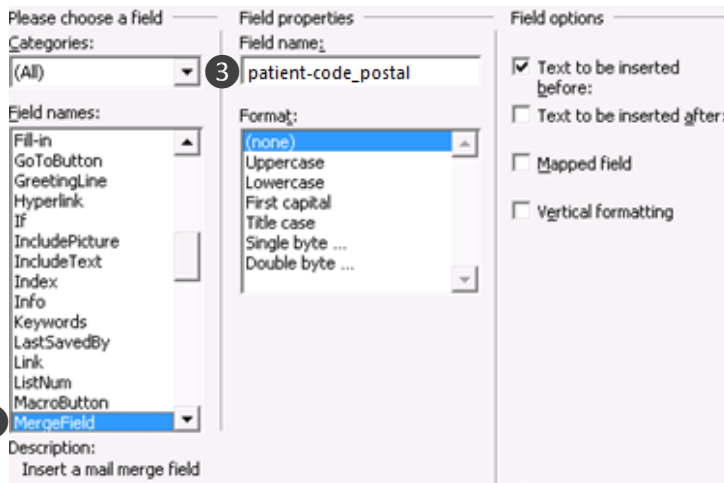
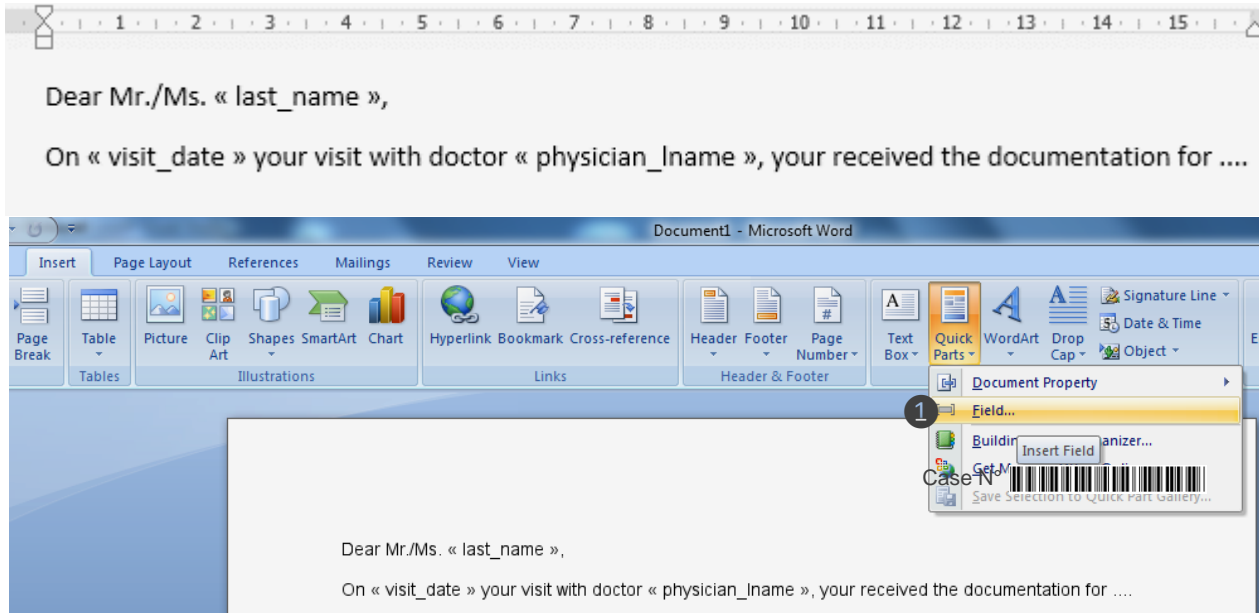
DATE_FULL ex: Monday 13 October 2014

To finish, click on **Exit calibration** to return to the mail merge task parameters and **Save** your work.

Case 1 : substring This is the case where you want to display only part of the variable's value. It is often the case with dates because their standard format is year-month-date (ex : 2014-12-31). In order to place the date on a form that shows a line such as **Date** ___ / ___ / ___ (dd,mm,yyyy) , you'll need to place the variable three times on the different areas and use the substring option to pick out the part that you need. Drag the variable to the part of the form that needs the date of the month. In the field **=value**, put [9,2]. This means, show its value but starting with the 9th character and going for 2 characters. This will give the day, 31. Then, drag that same variable onto the template into the middle section of the date, for which we'll need the month, and put [6,2] into the field **= Value**. This will take the value starting with the 6th character and going for 2 characters. Finally, do the same for the year putting in [1,4] into the **= Value** field.

Case 2: Dictionary variables Forms often contain check boxes as in the malaria case form above. Use the **= Value** field to indicate that you want an X placed on the form if the variable contains a specific value. For example, if you have the variable *pat_sex* for the patient's sex with the options *Male* and *Female*, then in the field **= Value** enter [X]Male and place this variable (with the X directly over the box) onto the form for Male. Do the same for the check box Female, adding again the variable *pat_sex*, but this time, in the **= Value**, enter [X]Female.

The use of the Microsoft Word MergeField is the recommended method to create your models. The declaration of variables is done using the native MergeField element in Microsoft Word. Write your letter and insert the variables at the precise points you want them displayed.



Explanation

Adding variables to your text

To insert a variable, go to the tab Insert then Quick Parts then select **1 Field...**

Select the type **MergeField 2** and then enter the name of the desired variable as **varset_name-variable_name 3**. Do not format the text (leave it as **(none)**) as this will have no effect in on the final document. If you would like to include the current date, then place the date function into the **Field name**, ex:

__DATE__SHORT__ short date example: 13/10/14

__DATE__LONG__ long date example: 13 October 2014

__DATE__FULL__ full date example: Monday 13 October 2014

Save your Microsoft Word document in the **.docx** format. This is the file to be uploaded and which will be merged with the data from the selected export or datarequest.

C39P24DITt



To include barcodes on your PDF output files, install the Windows font C39P24DITt or C39HrP24DhTt (found at <https://www.wfonts.com>). Then apply the desired font to the

IMPORTANT: If your data request is not an export (made manually with a personalised property), then you do not need to prefix each variable with the varset name. Instead of **patient-code_postal**, you would only enter **code-postal**.

Placing a table into the MS Word model, for example a sub-table as shown below, is possible but only if you use Mailmerge as a web service completely managed from your application. Your application must send the data (XML file) as well as the model document.

Displaying a table

Your .docx model will still use the **MergeField** as described above, but for lists and tables, you will need to use the commands `TableStart:` and `TableEnd:.` Your XML document contains the data that will fill in the variables, lists, and tables. Here is an example.

Example MS Word model

- 1 Disease type: `<type_signal>`
A single variable, nothing special. It is the disease type.
- 2 A list of cities that have exposure to the disease:
A single column table (array) which will display the cities with a bullet point placed in front of them.

```
«TableStart:Array-communes»
  • «commune»
«TableEnd:Array-communes»
```

- 3 Cities and values table: see the xml table below.

Cher(e) Madame/Monsieur Martin,

Voici les résultats de vos analyses biologiques

- Hypertension : négatif
- Hyperlipidémie : négatif
- HIV : négatif

Substance	Mesure	Normal
Triglycérides	0,57 g/l	< 1,5
Cholestérol Total	1,85 g/l	< 2,0
Cholestérol LDL	1,1 g/l	< 1,6
Cholestérol HDL	1,2 mmol/l	1 à 1,6

Example of the result of a table

- 1 **Type de signal** : `<type_signal>`
Signaux dans les communes ci-dessous :
- 2 `<TableStart:Array-communes>`
 - `<commune>``<TableEnd:Array-communes>`
- 3

Commune	Nombre	> +2 Z
<code><TableStart:Array-details></code> <code><commune></code>	<code><mesure_signal></code>	<code><plus2z></code> <code><TableEnd:Array-details></code>

Below we see the resulting PDF output with the data merged from the XML file.

Data in XML form sent to the model

Type de signal : Grippe

Signaux dans les communes ci-dessous :

- Antony
- Bourg-la-Reine
- Bagneux
- Fontenay-aux-Roses
- Montrouge
- Malakoff

Commune	Nombre	> +2 Z
Antony	1645	2.1
Bourg-la-Reine	789	2.9
Bagneux	619	3.1
Fontenay-aux-Roses	498	2.5
Montrouge	915	2.2
Malakoff	1309	2.2

```
<?xml version="1.0" encoding="UTF-8"?>
<Mailing xmlns="http://tempuri.org/XMLSchema.xsd" id="1" batchId="1">
  <Mail id="123456789">
    <Field name="type_signal" type="String">Grippe</Field>

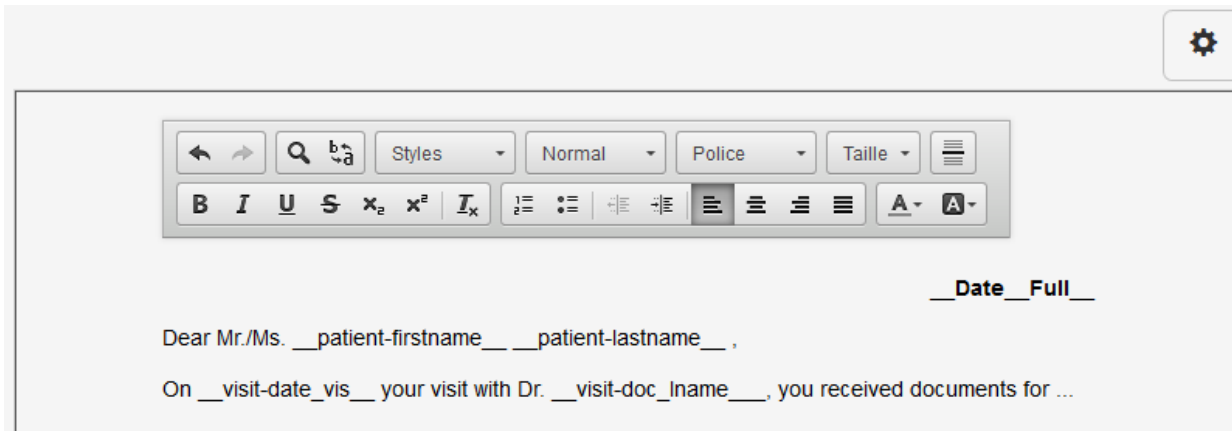
    <Table name="Array-communes">
      <TableRow>
        <Field name="commune" type="string">Antony</Field>
      </TableRow>
      <TableRow>
        <Field name="commune" type="string">Bourg-la-Reine</Field>
      </TableRow>
    </Table>

    ...etc
  </Table>

  <Table name="Array-details">
    <TableRow>
      <Field name="commune" type="string">Antony</Field>
      <Field name="mesure_signal" type="string">1645</Field>
      <Field name="plus2z" type="string">2.1</Field>
    </TableRow>
    <TableRow>
      <Field name="commune" type="string">Bourg-la-Reine</Field>
      <Field name="mesure_signal" type="string">789</Field>
      <Field name="plus2z" type="string">2.9</Field>
    </TableRow>

    ...etc
  </Table>
</Mail>
</Mailing>
```

Below you see an example of a model created within Mailmerge.



Create the model online within Mailmerge

By using this method, you create your model (template) directly in Mailmerge by adding variables, that is, you do not upload any model. When creating a task, for the Model type, select **Online** (see the following section *Create a Mailmerge Task*). Write your letter or list and place the varset hyphen variable exactly where needed and surround it with double underscores as shown. Be careful if you are applying formatting to the variables (bold, colors, etc.) as the formatting must include the underscores, ex: Dear Mr. __patient-lastname__, is fine, but Dear Mr. patient-lastname is not. The following date functions are also available which will place the current day's date into the final set of created letters.

- ___Date_Short___ ex: 13/10/14
- ___Date_Long___ ex: 13 October 2014
- ___Date_Full___ ex: Monday, 13 October 2014

Finally, do not forget to click on the **Save** button.

A Mailmerge task = a connection + a data request (or export) + a model (template). Here we will select the data request and choose a model (see the previous sections on creating a model).

Ajouter / Editer une tâche

Nom * **1**

Mots clés **2**

Utilisation d'un provider * **3**

Type du provider * **4** Service web Voozanoo 4
 Service web

Connexion * **5**

Requête données * **6**

Dico format

Type de modèle * Fichier externe
 En ligne

Sélectionner un modèle de document ?

File name	Action
barcode_ll.docx	Download the file - Delete

From the home screen which shows the list of available tasks, select **Action** > **New mailing task**. Enter the following information for the new task.

- 1. Name:** Give a descriptive name that identifies the task
- 2. Tags:** Give one or more identification tags to the task (ex: 3-month reminder)
- 3. Use provider:** Choose **Yes** to indicate that you will provide a URL and query/export to be used. Choose **No** to indicate that the application using Mailmerge as a webservice will send the data directly.
- 4. Provider type:** Select Webservice Voozanoo4 (see below for provider type “Webservice”)
- 5. Login:** Select one the connections previously created. If needed, you can create a new connection here with the plus button
- 6. Dataquery:** Select one of the available data requests or exports for this connection. The available data requests and exports are those that the user account (created in the connection step above) has access to.

Continued from above

Mots clés

Utilisation d'un provider *

Type du provider * Service web Voozаноо 4
 Service web

Connexion *

Requête données *

Dico format **7**

Type de modèle * **8** Fichier externe
 En ligne

Sélectionner un modèle de document ?

Parcourir...

File name	Action
9 barcode_ll.docx	Download the file - Delete

Sélectionner un fond de page si nécessaire ?

Parcourir...

File name	Action
No file loaded yet	

7. Dico format: When you one or more dictionary type variables (choice) onto the model, you determine here what value will be displayed. You can choose to have displayed the label (ex: Wednesday), the short label (ex: wed), the code (ex: 3) or raw, that is, the id_data for the dictionary element in the database (ex: 251). Showing the label is the most common. Note that the format is used for all the dictionary type variables that are displayed on the page.

8. Model Type: Choose **File** to upload a document model (type .docx or .pdf). Choose **Online** to create a model directly with the editor built into Mailmerge.

9. Select the model document to use: Upload the model (template) document that the data will be merged with or create the model directly in Mailmerge. A document that has already been created must be a .docx, or .pdf document. See the sections above *Creating a template* on how to create a template document and link the variables. If your model is type .docx, upload it for this task and clique on **Save**. If your template is the type .pdf, upload it for this task and then see above *Creating a template: type Overlay* on how to position (calibrate) the variables onto it. After the calibration, click the button **Save**. Finally, if you want to create your model directly within Mailmerge (not uploading an external document), consult *Creating a template: type Online* above.

You have created a connection to the provider application and chosen the template (model) and data request. You can now run the task to produce the PDF file of the data merged with the model.



3 mail merge(s) completed

Liste des tâches de publipostage

rechercher

Nom
Etiquette

Identifiant ^^	Nom ^^	Etiquette ^^	Modèle ^^
909	doc_test_code_barre	isere,38,SSP	C39_test.docx
913	Curtis Barcode II	curt	barcode_II.docx
	etiquettes_thonon	etiquettes	modele_thonon.docx
	Certificat de non contagion DAMOC		certificat_non_contagion_damoc.docx

- 2 View data
- 1 Mail merge
- 3 Mailings
- Edit
- Delete

<< 25 26 27 28 29

Explanation

Run the task

From your home screen that shows the list of tasks, click on the menu icon to the left of the desired task and select **1 Mail merge**. The merging of the data request's data and the template will begin. If you want to choose only certain records from the data request, choose **2 View Data**, then check the boxes of those that you want generated and finally click on **Generate a document > Selected**.

Search (filter) the data*

When you choose **2 View Data**, the upper part of the screen shows the first ten variables from the data query (the data query you chose during the task creation step) in order to search or filter the files. The search fields are linked together by a logical AND operation and whatever is typed into a field is evaluated according to the data request in the target application.

Getting the results

When the mail merge task is completed, click on the green indicator **4** on the top right of the window and then click on the task to download the resulting PDF file. You can also see and download the PDF at any time (they are stored) by clicking on **3 Mailings** in the menu next to a task.

* If the data request chosen is an export created with the Export creation tool in the Voozanoo application, the search fields will not work. See the technical documentation for adding <condition> tags and begin/end attributes to the data query resource file.

3 mail merge(s) completed

Curtis Barcode II - 21/11/2017 17:25:13

Mail merge completed

Voir les données liées à la tâche

To create a data request to a non-Voozanoo4 application, the target application must be able to send a CSV file (the data which will get merged into the template), a dataset URL (XML file which explains the structure of the CSV data file) and finally "Post Handle", a table to where Mail Merge will send the IDs of the files that have been used in an executed Mailmerge operation.

First, create a new connection to the application as explained above in *Specifying a connection to the data source*, and then in the creation of the new task, select the button **Webservice**.

Here are the fields to fill in:

Username: The name of a user or account so that Mail Merge can log into the application.

Password: Password for this user/account.

CSV URL: The URL from which to fetch the CSV containing the data to be merged.

Dataset URL: The URL to get the XML file that describes the data structure of the CSV file.

Post handle URL: The URL to post the Data request line IDs that Mailmerge used when it executed the task.

Ajouter / Editer une tâche

Nom *	<input type="text" value="Autre application"/>
Mots clés	<input type="text"/>
Utilisation d'un provider *	<input checked="" type="checkbox"/>
Type du provider *	<input type="radio"/> Service web Voozanoo 4 <input checked="" type="radio"/> Service web
Nom de l'utilisateur *	<input type="text"/>
Mot de passe *	<input type="password"/>
csv URL *	<input type="text"/>
Dataset URL *	<input type="text"/>
Post handle URL	<input type="text"/>
Type de modèle *	<input type="radio"/> Fichier externe <input type="radio"/> En ligne

If you need to merge the current record on the screen into a Mailmerge model document, you can easily create a button to do this. In the example below, we will have a simple database of patients who are involved in a transportation study. We'll make a button on the page to create a single "participant" sheet that can be printed.

Patient study form for project AET Hospital transportation

2 Study subject sheet (PDF)

Study case

Surname *

First name

Gender Female Male Unknown

Date of birth

Legal consent Yes No

Transportation modes for work

By foot Bicycle Bus Train Other

Which group is the study subject assigned to?

A B C D E

St. Vincent's Medical Center **AET Transportation Study**

Simons, Bradley

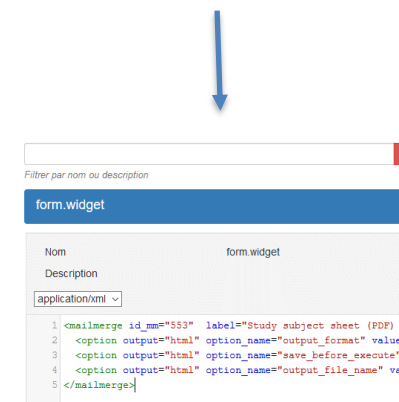
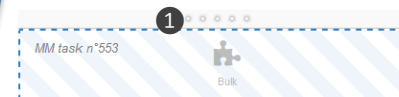
DOB: 4 mars 1985 Sex: Male N°2417

Legal release for study: Yes

Transportation: By foot/Bicycle Study Branch: B

Interview notes:

Brad has been travelling the 7km to work every day for the past three years. He did this because he felt he was not getting enough physical exercise. He is concerned about the traffic as he nearly got hit by a car a few months ago. The only envisageable points to using his bicycle is when it rains. It takes him a while to clean up and dry off once he gets to the office. Other than that he is very happy with his change of transportation.



If not already in place, create your Mailmerge task (connection + dataquery/export + template) as normal.

In EpiCraft

In the EpiCraft editor, go to the form page that you want to place the button on and add a Bulk component **1** where the button will be. Name is something like "Mailmerge task N°xxx". Add a Mailmerge widget (will appear as a button **2**) by creating a personal property for this Bulk component called **form.widget** and add the following XML instructions.

```
<Mailmerge id_mm="553" dataset="patient" label="Study subject sheet (PDF)"
class="btn-success">
  <option output="html" option_name="output_format" value="pdf"/>
  <option output="html" option_name="save_before_execute" value="true" />
  <option output="html" option_name="output_file_name" value="patient_sheet" />
</Mailmerge>
```

On the first line, replace the task ID **553** with the task ID you want to launch. Replace the dataset **patient** with the name of the varset of the page. And finally replace the output file name from **patient_sheet** to something of your own liking. See the technical details of the other options for the Mailmerge widget at https://epiconcept-paris.github.io/epidocs/voozanoo4_widgetMailmerge.html

When you click on this button, you'll be presented with a PDF file to download.

Note: if you'd like to create a button that creates a PDF of all the records, say on an administrator's page, just remove the attribute dataset="xxxxx" in the first line.

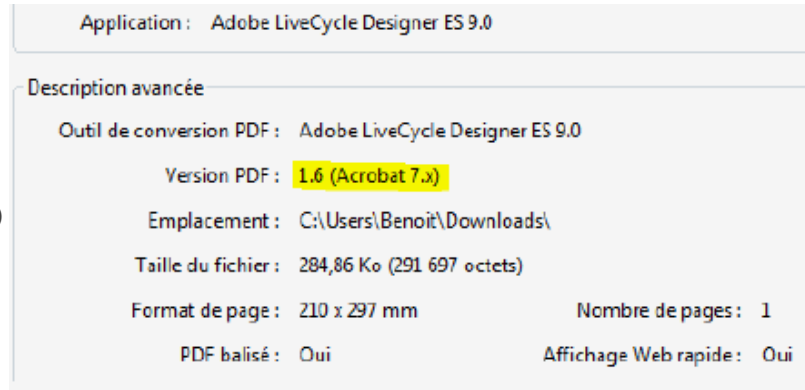
By using the free open source Windows application PDF Creator (<http://www.pdfforge.org>), you can transform a PDF document into a PDF document version 1.4 which can be used in Mailmerge.

Converting a pdf document to version 1.4

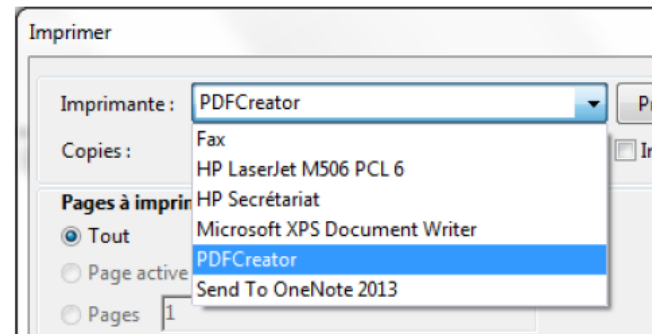
1. Install the application PDFCreator on your PC.
2. Open the PDF you want to convert with Adobe Acrobat Reader.
3. Print it out to the new "printer" named **PDFCreator**.
4. In PDFCreator dialog box, go to the settings and choose the default Save setting: PDF/A-2B.
5. The created PDF file will be in version 1.4 as necessary for use in Mailmerge.



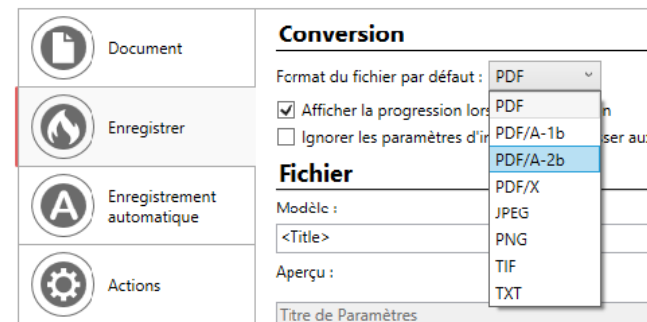
1



2



3



4

5

