

Using simple text-Macros to generate PDF reports out of Lotus Notes

Through a very compact Text-Macro-Generator it is able to generate PDF document out of a Lotus Notes Workflow report and pages.

The Macro provides a variety of commands to format the Lotus PDF's print outs including tables, text contents, pictures and symbols, gaps and more.

German letters and Cyrillic fonts can reside in the same line of text.

The reports are organized in a table with content so that the printouts appearing clear a readable.

There is a Lotus Notes server configuration Database that holds the layout definitions for every type of document. It means: easy maintenance, quick updates or writing new macro.

A syntax check program is provided as a tool so that a none professional Notes user can easily generate a print module.

Macro-Syntax:

The row Syntax: n;yy;yy;yy;yy...;txt_ OR fld_ OR sym_ OR leer OR fld_A+B OR ...

n; number of columns
yy; column width in points (total of 538 PDF points)
txt_ Description of the row or cell OR
txb_ Description of the row or cell Bold (b=Bold) OR
fld_ Content out of a Notes-Field OR
flb_ Content out of a Notes-Field Bold (b = Bold) OR
sym_ Symbol out of a Notes-Field OR
pic_ Picture out of an alias key OR
leer Empty cell OR
text_ text row without borders between 2 tables.

CRLF_ is a carriage return line feed in the middle of a text. (better formatting in a cell description.)
It is not a cell operator so it appears only in a middle of text.

& End of row operator
End of table operator
|| Macro-End operator. (useful during the test phase)
; Command separator
+ Concatenates 2 fields in one PDF cell (separates by Blank) fld_FieldA+FieldB (only 2 Fields)
/ interleaved 2 Fields in one PDF cell (separated through line feed) fld_FieldA/FieldB (only 2 Fields)
+ sym_fldA+fldB+fldC ... Concatenates n Symbol-Fields in one PDF cell (only one symbol appears - depends on the Notes-Field)
@REM Comment row must have an End row operator

@IF fld_fieldname=|text| text-content& if Field-content unequal text-content then ignore the row

fld and txt concatenation: fld_FieldA+txt_any text;

each row except the last one is enclosed with an & operator.
each table except the last one is enclosed with an # operator.
only the last cell of a row can have the rest width of the unused cells.
a text or Field content or picture can left justified middle or right in his cell.

Fld_ field is left justified (be aware to the capital letter)
fld_ field is middle justified
fld_ appears to the right
applies only to txt, sym, pic and text description.

Not allowed (regex) characters . \ * [] \ \ -

Formatting-examples:

Table:

```
@REM Table 1&
1;538;txt_Stammdaten&
4;90;170;100;178;txt_Antragsteller;fLd_Antragsteller;txt_Kennung;fLd_KID&
4;90;170;100;178;txt_Organisationseinheit;fLd_Organisationseinheit;txt_Firmenzugehörigkeit;fLd_Firmenzugehörigkeit&
2;90;448;txt_Personalnummer;fLd_Personalnummer&||
```

Stammdaten			
Antragsteller	Alexander Kogan	Kennung	
Organisationseinheit	HCK	Firmenzugehörigkeit	A. Kogan EDV
Personalnummer	40527		

The first table row describes the content of the table so that the first column is 538 PDF points. The color and the font are hard coded – but can be easily modified.

Let us try Bold and right justified in the second row:

Bold – right justified

```
4;90;170;100;178;txB_Antragsteller;fLB_Antragsteller;txt_Kennung;fLd_KID&
Following the rule b for Bold and capital – for right justified.
```

Stammdaten			
Antragsteller	Alexander Kogan	Kennung	
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Personalnummer	40527		

Bold – in the middle of the cell

```
4;90;170;100;178;txB_Antragsteller;fLb_Antragsteller;txt_Kennung;fLd_KID&
Following the rule: b for Bold and capital letter - middle. (X – instead of x and L instead of l).
```

Stammdaten			
Antragsteller	Alexander Kogan	Kennung	
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All descriptions are to the right and the field contents are bold to the right:

```
1;538;txt_Stammdaten&
4;90;170;100;178;txT_Antragsteller;fLd_Antragsteller;txT_Kennung;fLd_KID&
4;90;170;100;178;txT_Organisationseinheit;fLd_Organisationseinheit;txT_Firmenzugehörigkeit;fLd_Firmenzugehörigkeit&
2;90;448;txT_Personalnummer;fLd_Personalnummer&||
```

Stammdaten			
Antragsteller	Alexander Kogan	Kennung	
Organisationseinheit	HCK	Firmenzugehörigkeit	A. Kogan EDV
Personalnummer	40527		

carriage return line feed

If the cell description is too long we use the Operator CRLF_ :

```
1;538;txt_Stammdaten&
4;90;170;100;178;txT_Antragsteller;fLd_Antragsteller;txT_Kennung;fLd_KID&
4;90;170;100;178;txT_Firmen-
CRLF_Organisationseinheit;fLd_Organisationseinheit;txT_Firmenzugehörigkeit;fLd_Firmenzugehörigkeit&
2;90;448;txT_Personalnummer;fLd_Personalnummer&||
```

Stammdaten			
Antragsteller	Alexander Kogan	Kennung	
Firmen-Organisationseinheit	HCK	Firmenzugehörigkeit	A. Kogan EDV
Personalnummer	40527		

The empty cells:

The employee number should be in the middle of the second column following by 2 empty cells:

```
1;538;txt_Stammdaten&
4;90;170;100;178;txT_Antragsteller;fLd_Antragsteller;txT_Kennung;fLd_KID&
4;90;170;100;178;txT_Firmen-
CRLF_Organisationseinheit;fLd_Organisationseinheit;txT_Firmenzugehörigkeit;fLd_Firmenzugehoerigkeit&
4;90;170;100;178;txT_Personalnummer;fLd_Personalnummer;leer;leer||
```

Stammdaten			
Antragsteller	Alexander Kogan	Kennung	
Firmen-Organisationseinheit	HCK	Firmenzugehörigkeit	A. Kogan EDV
Personalnummer	40527		

Bulgarian letters and Umlauts in the same row w/o borders:

```
1;538;txt_Stammdaten&
4;90;170;100;178;txT_Antragsteller;fLd_Antragsteller;txT_Kennung;fLd_KID&
4;90;170;100;178;txT_Firmen-
CRLF_Organisationseinheit;fLd_Organisationseinheit;txT_Firmenzugehörigkeit;fLd_Firmenzugehoerigkeit&
4;90;170;100;178;txT_Personalnummer;fLd_Personalnummer;leer;leer#
@REM Text Zeile
1;538;text_Hier ist ein Text in Bulgarisch: Приложение № 2 към Правилника за вътрешния трудов ред
ред ÄÖÜäöüß€||
```

Stammdaten			
Antragsteller	Alexander Kogan	Kennung	
Firmen-Organisationseinheit	HCK	Firmenzugehörigkeit	A. Kogan EDV
Personalnummer	40527		

Hier ist ein Text in Bulgarisch: Приложение № 2 към Правилника за вътрешния трудов ред ÄÖÜäöüß€

Standard gap between tables:

```
1;538;txt_Stammdaten&
4;90;170;100;178;txT_Antragsteller;fLd_Antragsteller;txT_Kennung;fLd_KID&
4;90;170;100;178;txT_Firmen-
CRLF_Organisationseinheit;fLd_Organisationseinheit;txT_Firmenzugehörigkeit;fLd_Firmenzugehoerigkeit&
4;90;170;100;178;txT_Personalnummer;fLd_Personalnummer;leer;leer#
@REM Text Zeile
1;538;text_Hier ist ein Text in Bulgarisch: Приложение № 2 към Правилника за вътрешния трудов ред
ÄÖÜäöüß€#
@REM 2_te Tabelle Status&
4;90;16;156;276;txt_Status;leer;leer;txt_Bemerkungen&
4;90;16;156;276;txT_Antragsteller;leer;fld_Antragsteller_2;fld_Bemerkung_Antragsteller_Prot||
```

Stammdaten			
Antragsteller	Alexander Kogan	Kennung	
Firmen-Organisationseinheit	HCK	Firmenzugehörigkeit	A. Kogan EDV
Personalnummer	40527		

Hier ist ein Text in Bulgarisch: Приложение № 2 към Правилника за вътрешния трудов ред ÄÖÜäöüß€

Status		Bemerkungen	
Antragsteller	Alexander Kogan	[19.07.2015 21:01; Alexander Kogan] kein	

Implementing a signature part:

```

1;538;txt_Stammdaten&
4;90;170;100;178;txT_Antragsteller;fLd_Antragsteller;txT_Kennung;fLd_KID&
4;90;170;100;178;txT_Firmen-
CRLF_Organisationseinheit;fLd_Organisationseinheit;txT_Firmenzugehörigkeit;fLd_Firmenzugehörigkeit&
4;90;170;100;178;txT_Personalnummer;fLd_Personalnummer;leer;leer#
@REM Text Zeile
1;538;text_Hier ist ein Text in Bulgarisch: Приложение № 2 към Правилника за вътрешния трудов ред
ÄÖÜäöüß€#
@REM 2_te Tabelle Status&
4;90;16;156;276;txt_Status;leer;leer;txt_Bemerkungen&
4;90;16;156;276;txt_Antragsteller;leer;fld_Antragsteller_2;fld_Bemerkung_Antragsteller_Prot#
@REM 6_te Tabelle Unterschrift&
1;538;txt_Unterschrift&
3;198;198;142;txt_Datum;txt_genehmigt;txt_Bearbeitung abgeschlossen&
3;198;198;142;leer;leer;leer&
3;198;198;142;txt_____ ;txt_____ ;txt_____
_____
&
3;198;198;142;txt_Unterschrift Antragsteller;txt_Unterschriftsberechtigter Org Einheit;leer||

```

The rows are without borders

The German word "Unterschrift" can be modified to an English "Signature" so don't bother the German wording.

Stammdaten			
Antragsteller	Alexander Kogan	Kennung	
Firmen-Organisationseinheit	HCK	Firmenzugehörigkeit	A. Kogan EDV
Personalnummer	40527		

Hier ist ein Text in Bulgarisch: Приложение № 2 към Правилника за вътрешния трудов ред ÄÖÜäöüß€

Status	Bemerkungen	
Antragsteller	Alexander Kogan	[19.07.2015 21:01; Alexander Kogan] kein

Datum genehmigt Bearbeitung abgeschlossen

Unterschrift Antragsteller Unterschriftsberechtigter Org Einheit _____

Implemented features:

Automatic page feeds with page numbers.

The macro version is provided in a small letters at the bottom. (Parameter in the configuration DB)

The company Logo is provided automatically on the right cell above. (Parameter in the configuration DB)

+ concatenates 2 Fields in one PDF cell (separated with blank) fld_FieldA+FieldB (only 2 Fields)

/ interleaved 2 Fields in one PDF cell (separated through line feed) fld_FieldA/FieldB (only 2 Fields)

+ sym_fldA+fldB+fldC ... Concatenates n Symbol-Fields in one PDF cell (only one symbol appears - depends on the Notes-Field) Symbols are from the Wingding character table.

@IF fld_fieldname=|text| text-content& if Field-content unequal text-content then ignore the row (Simulation of HideWenn in Notes).

Field content combined with text: fld_FieldA+txt_any text;

Pictures in the PDF tables. (defined as parameter in the configuration DB)

Implemented successfully with the German Domino application "ULC.Formular- & Prozessmanager"

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