



SiDiary

For Windows, iPhone, Android, PPC, Smartphone, Java mobile phones, Online

www.sidiary.org
www.sinovo.net

Instructions to build print- & export-templates for SiDiary

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1 General information

The engine to generate print and export data is based on a parser module from ShE Informationssysteme GmbH. They made it possible for me to constitute this module royalty free. With this parser module it is possible to use different editions and layout sizes, without the need to modify the source code, which is providing the data.

Right now it's possible, by replacing and adapting the templates, to create txt, csv, rtf, html, xml, MsExcel and OpenOffice Calc files.

The schema is simple: The templates are containing fields ("placeholders") which are replaced with the corresponding information during the print or export function. There are supported lists, which are enclosed by a start- and end identification field. Everything from between these fields is going to be repeated, as long as there are records in the list. Additionally there are some expressions, which only take place, if some criteria are fulfilled (**if-construct**). There are also some special placeholders, which are replaced with complete graphics.

Please note that this documents refers to SiDiary Version 6 since Version 5 has a reduced number of placeholders.

2 List-output with SiDiary

SiDiary supports 5 list outputs: list 1 generates a list for all days of the chosen period, list 2 generates a data list for all tracked values of the period. I.e. in the first list you'll get 14 list entries for a period of 14 days, with the second one e.g. 70 entries (by 5 average values a day).

The following example for a list section in a SiDiary template

```
[LIST_START_2]
[DATE] [TIME]: [BLOOD_GLUCOSE], carbintake: [BE_KHE] gr. carbs
[LIST_END_2]
```

would produce a result from below:

```
08/07/2004 07:15: 107, carbintake: 72 gr. carbs
08/07/2004 10:35: 89, carbintake: 0 gr. carbs
08/07/2004 12:45: 131, carbintake: 60 gr. carbs
08/07/2004 04:05p: 99, carbintake: 24 gr. carbs
08/07/2004 11:00p: 108, carbintake: 0 gr. carbs
```

SiDiary repeats the complete section, as long as there are values for the type of the list. Within this list section, only the placeholder are filled with informations, the rest is not modified!

By using list type 3 you can create a list of all saved basal profiles of an insulin pump patient, list 4 will create a weekly output like the simple logbook for conventional therapy in the application user interface. With list 5 you can create a list of all tracked laboratory results.

3 If statements

SiDiary supports a few if constructs. Analogue to the list detail, it is enclosed in a block with an “If” and “End If” Those expressions will only be visible in the result document, if the appropriate condition has been true.

The “If” statement for remarks are supported so far and also the check up, if MS Word is available on the system.

An example for a list of all the days entered with remarks in SiDiary. The other days wouldn't be displayed:

```
[LIST_START_1]
[IF_REMARK]
Remark on [DATE]: [REMARK]
[ENDIF_REMARK]
[LIST_END_1]
```

The result could look like:

```
Remark on 08/01/ 2004: tennis training in the evening.
Remark on 08/05/2004: tennis competition.
Remark on 08/08/2004: maybe forgot the bolus for breakfast?!
```

If-Fields	Condition
[IF_WINWORD_AVAILABLE]	If MsWord is installed and available.
[IF_REMARK]	If there's a remark for the current day.
[IF_EXERCISES]	If there's an exercise item for the current day.
[IF_PUMPER]	If the patient is pumper.
[IF_NOT_PUMPER]	If the patient is <u>no</u> pumper.
[IF_QUESTION]	If the patient has tracked a question/comment for the current day.
[IF_WEIGHT]	If the patient has tracked a body weight value for the current day.
[TYPE_INS]	If the patient has configured his profile with the use of insulin.

4 Supported fields/ „placeholder“

4.1 Fields outside the list section

Following fields are supported for export and print-outs (partially you can find English placeholders). These fields can also be applied within list sections:

Fieldname	The placeholder will be replaced by...
[CREATED_ON]	The date of creation.
[START_DATE]	The 1st day of the selected period
[END_DATE]	The last day of the selected period.
[PATIENT] [NAME]	The name of the patient from the profile data.
[MGDL_OR_MMOLL]	The adjusted unit from the profile data (i.e. ether mg/dl or mmol/l).
[DIAB_TYPE]	1 or 2, depending on the patient profile.
[REMARK]	Remark of the actual day (within list sections).
[STAT_HIGHEST]	The highest blood glucose value of the selected period.
[STAT_LOWEST]	The lowest blood glucose value of the selected period.
[STAT_AVERAGE]	The average of the saved blood glucose values in the selected period.

Fieldname	The placeholder will be replaced by...
[STAT_NUMBER_OF_VALUES]	The number of the saved blood glucose values in the selected period.
[STAT_A1C]	The calculated A1C (in %) of the selected output period.
[STAT_A1C_MMOL]	The calculated A1C (in mmol/mol) of the selected output period.
[STAT_STD_DEV]	The standard deviation of the selected output period.
[STAT_AVG_CARBS]	The daily average of carb intakes.
[STAT_AVG_BOLUS]	The daily average of bolus insulin (or pills). Only the 1 st selected insulin or pill.
[STAT_AVG_BOLUS2]	Like before, but for the 2 nd bolus insulin or 2 nd type of pill.
[STAT_AVG_BASAL]	The daily average of injected basal insulin (or pills). Only the 1 st selected insulin or pill.
[STAT_AVG_BASAL2]	Like before, but for the 2 nd basal insulin or 2 nd type of pill.
[STAT_AVG_BOLUS_TOTAL]	The daily average of bolus insulin or pills (sum of cells bolus and bolus 2).
[STAT_AVG_BASAL_TOTAL]	The daily average of basal insulin or pills (sum of cells basal and basal 2).
[STAT_DS_INS_TOTAL] [STAT_AVG_INS_TOTAL]	The daily average of all insulin.
[STAT_AVG_WEIGHT]	The average body weight from the print time range.
[STAT_HYPO1]	Number of blood glucose readings which are below from the defined hypo limit (patient profile).
[STAT_HYPO2]	Number of blood glucose readings which are tracked by using the –character (Slight Hyposymptoms)
[STAT_HYPO3]	Number of blood glucose readings which are tracked by using the –character (Strong Hyposymptoms)
[STAT_HYPER]	Number of blood glucose readings which are higher than the defined gyper limit (patient profile)
[INS_KGKG]	The ratio of insulin per kg bodyweight. Please find more details about this parameter in SiDiary's manual.
[STAT_AVG_NUMBER_OF_VALUES]	The average number of readings per day.
[TARGET_MIN]	The lower-bound of the entered target range.
[TARGET_MAX]	The upper bound of the entered target range.
[TARGET_MAX+1]	Like before, with 1mg/dl added.
[TARGET_HYPO]	The patient's hypo limit from the profile tab.
[TARGET_HYPER]	The patient's hyper limit from the profile tab.
[BD_SYS_TARGET_MIN]	The lower-bound of blood pressure target range (Systole)
[BD_SYS_TARGET_MAX]	The upper-bound of blood pressure target range (Systole)
[BD_DIA_TARGET_MIN]	The lower-bound of blood pressure target range (Diastole)
[BD_DIA_TARGET_MAX]	The upper-bound of blood pressure target range (Diastole)
[MAX]	The limiting value, as a value is categorized in „very high“ (current 200 mg/dl).
[BASIS_MED_1]	The name of the 1 st chosen basal insulin/pill.
[BASIS_MED_2]	The name of the 2 nd chosen basal insulin/pill.
[BOLUS_MED_1]	The name of the 1 st chosen bolus insulin/pill.
[BOLUS_MED_2]	The name of the 2 nd chosen bolus insulin/pill.
[RECORDCOUNT]	The number of records, which were added to the list section, e.g. the number of days of the selected period.
[LANGTEXT_xxx]	Will be replaced with atext from the language file, where xxx must be a valid text id.
[CONTROL_TIME_xx]	Gives the control type: xx=1: before breakfast, xx=2: after breakfast, xx=3: before lunch,..., xx=6: all values.
[RECORDCOUNT]	Returns the number of records (days).
[PUMP_NAME]	The pump type that has been entered on the basal profile maintenance screen.
[CARB_RATIO_1]	The breakfast carb ratio.
[CARB_RATIO_2]	The lunch carb ratio.
[CARB_RATIO_3]	The dinner carb ratio.
[CORR_RATIO_1]	The breakfast correction ratio.

Fieldname	The placeholder will be replaced by...
[CORR_RATIO_2]	The lunch correction ratio.
[CORR_RATIO_3]	The dinner correction ratio.
[CARB_EX]	References the configured carb exchange unit from the settings.
[TEMPLATE_NAME]	Refers to the template file name.
[LABVALUE_SELECT]	If a template contains this placeholder SiDiary will show a lab parameter selection screen. The user can pick one of the existing lab parameters and SiDiary will create the lab value report (line graph) for the selected parameter.
[LAB_TARGET_MIN]	Liefert den unteren Referenzbereich des Laborwerts für den die Verlaufsgrafik generiert wird.
[LAB_TARGET_MAX]	The lower-bound of the reference range of the lab parameter.
[LAB_UNIT]	The upper-bound of the reference range of the lab parameter.
[BIRTHDATE]	The patient's birthdate.
[PAT_DEVICES]	A list of devices which the patient has selected in his profile.
[TREND_DATE_START]	The starting date of the comparison time range of the trend analysis
[TREND_DATE_END]	The end date of the comparison time range of the trend analysis.
[NAME_FULL]	Will insert the complete patient name including the birth date like „Lastname, Firstname (Birthdate)“
[WEIGHT_UNIT]	The configured bodyweight unit.
[CARB_UNIT]	The configured carb unit.

4.2 Fields inside a daily list (LIST_1)

Following fields are supported in sections which are bracket in [LIST_START_1] and [LIST_END_1]:

Fieldname	The placeholder will be replaced by...
[TAG] [DAY]	Date of the actual list element.
[GW1]	The 1 st limiting value for categorization of the blood glucose level (=the lower bound of the bg target range).
[GW2]	The 2 nd limiting value for categorization of the blood glucose level (=the middle of the bg target range)..
[GW3]	The 3 rd limiting value for categorization of the blood glucose level (=the upper bound of the bg target range)..
[GW4]	The 4 th limiting value for categorization of the blood glucose level (=currently 200 mg/dl. The limit for blood glucose levels to be categorized as “very high”).
[GW5]	The 5 th limiting value for categorization of the blood glucose levels (limiting value 4 + 50 mg/dl).
[GW6]	The 6 th limiting value for categorization of the blood glucose level (limiting value 5 + 50 mg/dl).
[UHRx]	The entered time of the actual day. X can be 1-8, each for the 1 st -8 th column.
[Brc]	Each blood glucose level according to the grid cell, whereas c needs to be replaced by column and r needs to be replaced by a row number, e.g. B14.
[BLOOD_GLUCOSEx]	The entered blood glucose level of each column (x=1...8).
[Uax]	The entered ketone value of each column (x=1...8)-
[Bex]	The entered number of carbs or exchanges of each column (x=1...8)-
[Box]	The entered bolus value of each column (x=1...8)-
[Bax]	The entered basal value of each column (x=1...8)-
[BDx]	The entered blood pressure of each column (x=1...8)-
[Rax]	The carb ratio that has been used in the column (x=1...8).
[REMARK]	Remark text of the actual day of the list.

Fieldname	The placeholder will be replaced by...
[SUM_BOLUS_1]	The daily sum of the 1. Bolus drug.
[SUM_BOLUS_2]	The daily sum of the 2. Bolus drug.
[SUM_BOLUS]	The daily sum of both bolus drugs.
[SUM_BASIS_1]	The daily sum of the 1. Basal drug.
[SUM_BASIS_2]	The daily sum of the 2. Basal drug.
[SUM_BASIS]	The daily sum of both basal drugs.
[SUM_CARB]	The daily sum of carbs or carb exchanges.
[WEIGHT]	The weight of the current day.
[EXERCISES]	A comment line containing all exercises of the day, concatenated with a timestamp.
[ROW]	The number of the current list item (day).
[PAGE_BREAK_AFTER_SUNDAY]	This parameter can be used in RTF templates only. It will insert a RTF „Page break“ mark if the current day of the loop was a Sunday. By using this mechanism you can ensure that the new week will start on a new page.
[24H...]	Please see chapter 4.2.1
[CONTROL_TIME_X]	Refers to the time range specified in the control times screen: 0-before breakfast, 1-After breakfast, 2-Before lunch, ..., 5-after dinner, 6-Night, 7-All times.
[CARB_RATIO_DET_X]	The extended carb ratio from the profile. X can be 0...23 (hour).
[CORR_RATIO_DET_X]	The extended correction ratio from the profile. X can be 0..23.
[QUESTION]	Will insert the question/remark which the patient has tracked for a logbook day.

Example of a list section for all days for a chosen period of time:

[LIST_START_1][TAG]

[MGDL_OR_MMOLL]	[Uhr1]	[Uhr2]	[Uhr3]	[Uhr4]	[Uhr5]	[Uhr6]	[Uhr7]	[Uhr8]
[GW6]	[B71]	[B72]	[B73]	[B74]	[B75]	[B76]	[B77]	[B78]
[GW5]	[B61]	[B62]	[B63]	[B64]	[B65]	[B66]	[B67]	[B68]
[GW4]	[B51]	[B52]	[B53]	[B54]	[B55]	[B56]	[B57]	[B58]
[GW3]	[B41]	[B42]	[B43]	[B44]	[B45]	[B46]	[B47]	[B48]
[GW2]	[B31]	[B32]	[B33]	[B34]	[B35]	[B36]	[B37]	[B38]
[GW1]	[B21]	[B22]	[B23]	[B24]	[B25]	[B26]	[B27]	[B28]
	[B11]	[B12]	[B13]	[B14]	[B15]	[B16]	[B17]	[B18]
[LANGT_EXT_43]	[UA1]	[UA2]	[UA3]	[UA4]	[UA5]	[UA6]	[UA7]	[UA8]
[LANGT_EXT_44]	[BE1]	[BE2]	[BE3]	[BE4]	[BE5]	[BE6]	[BE7]	[BE8]
[LANGT_EXT_144]	[BO1]	[BO2]	[BO3]	[BO4]	[BO5]	[BO6]	[BO7]	[BO8]
[LANGT_EXT_143]	[BA1]	[BA2]	[BA3]	[BA4]	[BA5]	[BA6]	[BA7]	[BA8]
[LANGT_EXT_47]	[BD1]	[BD2]	[BD3]	[BD4]	[BD5]	[BD6]	[BD7]	[BD8]

[IF_REMARK]Remark: [REMARK][ENDIF_REMARK]

[LIST_END_1]

4.2.1 24H-Placeholders within list type 1 (LIST_1)

Beside of the placeholders from the previous chapter you can use these special placeholders which are scaling the tracked data into a 24 hour scheme. Those fields are all starting with “24H” following by the hour (01 until 24). After this prefix you can use the type of information, like BE for carbs or BZ for blood glucose levels.

Examples:

[24H07BE]

Refers to a carb value from between 6am and 6:59am

[24H16BZ]

A blood glucose level from between 3pm and 3:59pm

Fieldname	The placeholder will be replaced by...
[24H...	Starting prefix to show that a 24-h placeholder is referred. Must be followed by the hour information and the information type from below
...01... bis ...24...	Hour information of the referred data type
...BE]	Carbs information
...BZ]	Blood glucose level
...UA]	Event information
...BO]	Bolus
...BA]	Basal
...PR]	For pumpers only: Will show the hourly pump basal profile
[24HSBZ]	Blood glucose average of this day.
[24HSBE]	Daily sum of carbs.
[24HSBO]	Daily sum of bolus
[24HSBA]	Daily sum of basal
[24HINS]	Daily sum of all insulin
[\$CONST_OneSheetPerDay=1]	You must include this placeholder in a template which you want to use for a 24H-presentation of your data. This constant will tell SiDiary to only show 1 table per day.
[24HREMARK]	Special remarks placeholder for the 24h presentation: Will show additional values in case that a cell for the hour is already used by another logbook value: i.e. If you have tracked blood glucose at 7:20am and another one at 7:45am. The second bg reading will be included in this remark field.

4.3 Fields inside a data list (LIST_2)

Following fields are supported in sections which are enclosed with [LIST_START_2] and [LIST_END_2]:

Fieldname	Information inserted the placeholder
[MGDL_OR_MMOLL]	The selected unit from the profile tab.
[DATE]	The date of the actual measuring point.
[TIME]	The time of the actual measuring point.
[REMARK]	The remark of the day from of the measuring point.
[BG] [BLOOD_GLUCOSE]	The blood glucose level of the actual measuring point.
[EVENT]	The event value of the actual measuring point.
[BE_KHE]	The grams of carbs of the actual measuring point.

Fieldname	Information inserted the placeholder
[BE_KHE_NUM]	Like before, but the entries like e.g. 6-7 are resolved like a formula so that there are just numeric outputs (6-7 will be replaced with 6,5).
[BOLUS]	The injected units of the bolus insulin of the actual measuring point.
[BOLUS_NUM]	Like before, but there are just numeric values as described for the numeric BE-field, e.g. 2+12 as 14 (2 iE correction, + 12 iE bolus).
[BASAL]	The injected units of basal insulin of the actual measuring point.
[BASAL_NUM]	Analogue to BOLUS_NUM.
[BLOOD_PRESSURE]	The blood pressure of the actual measuring point.
[BASALPROFIL_RATES]	Internal token string representing the internal curve of the basal profile from the logbook day.
[BASALPROFIL_NAME]	The name of the basal profile which is assigned to the weekday.
[UDT_XXX]	By using this field you can export UDT data. The placeholder will just work for exports but not for print templates! XXX must be replaced by the udt code which you assigned, e.g. if you added a user-defined-datatype "Steps", you can export the tracked data with placeholder [UDT_STEPS]

Example for a list section for measuring points:

```
[LIST_START_2] [DATE]; [TIME]; [ACETON]; [BLOOD_GLUCOSE]; [BE_KHE]; [BOLUS]; [BASAL]; [BLOOD_PRESSURE]; [REMARK]
[LIST_END_2]
```

4.4 Fields inside a data list (LIST_3)

By using list type 3 you can create a list of all saved basal profiles of a patient using an insulin pump. The following fields are supported in sections which are enclosed with [LIST_START_3] and [LIST_END_3]:

Fieldname	Information inserted the placeholder
[PROFILE_NAME]	The name of the pump basal profile.
[PUMP_NAME]	Name of the pump model (i.e. Deltec Cozmo)
[GRAPHIC_BASALPROFILE_{a}x{b}]	The basal profil graph. Please see chapter 4.8 Type of graphic fields

4.5 Fields inside a data list (LIST_4)

This list type will create an output like the simple logbook of the user interface. You will get a compact weekly view of your data just like paper log books of a conventional therapy. The following fields are supported in sections which are enclosed with [LIST_START_4] and [LIST_END_4]:

Feldname	Information inserted the placeholder
[CT_DAT_y]	The date of the day of the current week. Possible values for y are between 1 and 7. CT_DAT_1 will give you the date of the first day in the current week, CT_DAT_2 the second etc.
[CT_BG_xy]	A blood glucose level from this week: X specifies the column of the ct-logbook (1-Breakfast, 2-Lunch, 3-Dinner, 4-Late) and y the day of the week (1-7)
[CT_MED_xy]	Will be replaced by the tracked medication. Xy identical to the blood glucose placeholder.
[CT_REM]	The tracked remarks of this week
[CT_WEIGHT]	The body weight tracked in the simple logbook.

4.6 Fields inside a data list (LIST_5)

With this list type you can create a list of all tracked laboratory values. The following fields are supported in sections which are enclosed with [LIST_START_5] and [LIST_END_5]:

Feldname	Information, die in den Platzhalter eingefügt wird
[DATE]	The date when the lab result was measured
[LAB_DEF]	The name of the lab parameter, i.e. A1C
[VALUE]	The lab result value
[UNIT]	The unit of the lab parameter
[REF_MIN]	The lower-bound of the lab parameter's target range
[REF_MAX]	The upper-bound of the lab parameter's target range
[RATING]	A rating of the current lab result: - if the result was below of the target range, + if the result was above from the target and an empty string if it's inside the target range.

4.7 Fields inside a data list (LIST_6)

With this list type you can create a list of all defined events. The following fields are supported in sections which are enclosed with [LIST_START_6] and [LIST_END_6]:

Feldname	Information, die in den Platzhalter eingefügt wird
[EVENT]	The key (abbreviation) of the event
[GROUP]	The group name/category of the event
[DESC]	The full name of the event
[SEP]	Will be replaced for a comma separator to create an output of a enumeration.

4.8 Type of graphic fields

The following special placeholder can only be used with MS Word. The placeholder are replaced by each graphics in defined sizes. The basic syntax of the graphic placeholder:

```
[GRAPHIC_TYPE{a}_VAL{b}__{c}x{d}_BORDER{e}]
```

The values in the curly bracket have the meaning as following:
{a} specifies the graphic type:

- 0 – pie chart
- 1 – dot graph
- 2 – statistic value
- 3 – line graph (since version 6 this type is identical to type 4)
- 4 – line graph in presentation quality
- 5 – Blood pressure (with or without weight curve)
- 6 – Regime of weight
- 7 – Insulin pie chart
- 8 – Bar chart
- 9 – Blood pressure pie chart
- 10 – line graph for lab results

{b} specifies the control type, analogue to the option buttons of the statistic screen:

- 0 – before breakfast
- 1 – after breakfast
- 2 – before lunch
- 3 – after lunch
- 4 – before dinner
- 5 – after dinner
- 6 – only night values
- 7 – all values

{c} specifies the width of the graphic in pixel

{d} specifies the height of the graphic in pixel

{e} specifies the border width of the frame

0->no frame ... 1->1 pixel border width and so on

Following this schema the example from below shows a fully qualified placeholder:

```
[GRAPHIC_TYPE0_VAL7_230x150_BORDER1]
```

This field will give you a pie chart for all values with the size 230 x 150 and a border with a width of 1 pixel.

The basal profiles can be referenced within a template too.

```
[GRAPHIC_BASALPROFILE_{a}x{b}]
```

i.e.:

```
[GRAPHIC_BASALPROFILE_300x150]
```

If this field is used within list type 1 (for all days from the selected range), the basal profile that was used at this day will be printed. You can use this field also with list type 3, which will give you a collection of all saved basal profiles.

Also the trend view can be included with a report by using this placeholder:

```
[GRAPHIC_TREND_{a}]
```

i.e.

```
[GRAPHIC_TREND_500]
```

5 Excel templates

For Excel templates all of the prementioned is valid. The definition of the list sections and placeholder are located in a separate Excel sheet (ShE Parser). In this sheet you are able to specify the placeholders and on which sheet or which cell the placeholder's value should be inserted.

Here an example:

Pad	Sheet	Cell, column or row
[START_DATE]	SiDiary	C2
[END_DATE]	SiDiary	C2
[NAME]	SiDiary	C1
[CREATED_ON]	SiDiary	C3
[STAT_HIGHEST]	SiDiary	G2
[STAT_LOWEST]	SiDiary	G1
[STAT_AVERAGE]	SiDiary	G3
[STAT_A1C]	SiDiary	G4
[LANGTEXT_86]	SiDiary	E1
[LANGTEXT_87]	SiDiary	E2
[LANGTEXT_89]	SiDiary	E3
[LANGTEXT_90]	SiDiary	E4
[LANGTEXT_118]	SiDiary	H4
[LANGTEXT_510]	SiDiary	A1
[LIST_START_2]	SiDiary	7
[DATE\$FORMATDAT(DD.MM.YYYY)]	SiDiary	A
[TIME]	SiDiary	B
[BLOOD_GLUCOSE]	SiDiary	C
[BE_KHE]	SiDiary	D
[BOLUS]	SiDiary	E
[BASAL]	SiDiary	F
[LIST_END_2]	SiDiary	7
[\$CALLMAKRO(Table2.SiDiary_ToDo)]	SiDiary	

Single placeholders outside of a list section must have a fully qualified cell reference, i.e. there need to be a column- as well as the cell informations, e.g.:

[NAME]	SiDiary	C1
--------	---------	----

The patient name is written in the excel sheet named SiDiary into cell C1.

For the list section [LIST_START_2] you need to specify the row, which will take the first row of the list:

[LIST_START_2]	SiDiary	7
----------------	---------	---

All fields inside the list section specify the column only, e.g.:

[BLOOD_GLUCOSE]	SiDiary	C
-----------------	---------	---

For the 1st measuring point the blood glucose level is written into cell C7, the 2nd measuring point for the blood glucose in C8 and so on.

Additionally you can save a macro to the excel template, which can be executed by SiDiary at the end of the report:

```
[$CALLMAKRO(Table2.SiDiary_ToDo)]      SiDiary
```

In the example the macro „SiDiary_ToDo” will be executed.

After the export is completed (all replacements and processing of any macros), the complete sheet SiDiary will be deleted. If you want to put a macro to a template, you should save it in the code window of the “SiDiary”-sheet, so that you make sure, that it is going to be deleted at the end of the export.

This way you won't get the message on opening an export result file, that the file contains any macros. The additional achieving of excel macro instructions at the end of an export opens extensible modifications for the SiDiary data.

By using cell references you can use the full power of Excel for creating graphics and statistic evaluations.

6 Formatting options for placeholders

All prementioned placeholders, whether inside or outside a list section, can be extended with format information inside the fieldname.

Format informations are preluded by the \$ character. After that char there can follow format informations for date values, substring orders or something like that.

E.g. the field [DATE] can be used as followed:

```
[DATUM$FORMATDAT (DD.MMMM.YY) ]
```

The printed date would have the format as followed:

12. February 2004 (from the value 02/12/2004)

A list of all valid format informations:

```

wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww1.534  =$FORMATNUM(##,##0)$LFILL(30~w)
wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww1.534,0  =$FORMATNUM(##,##0.0)$LFILL(30~w)
wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww1534    =$LFILL(30~w)
-----1534                               =$LFILL(30~-)
1534-----                               =$RFILL(30~-)
1534wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww    =$RFILL(30~w)
      01.Januar.2000  =$FORMATDAT(dd.MMMM.yyyy)$LFILL(30~ )
      01.Jan 2000    =$FORMATDAT(dd.MMM yyyy)$LFILL(30~ )
      01.01.00       =$FORMATDAT(dd.MM.yyy)$LFILL(30~ )
      SIDIARY        =$UPPER$LFILL(30~ )
      sidiary        =$LOWER$LFILL(30~ )
      SiD            =$LEFT(3)$LFILL(30~ )
      Diary          =$RIGHT(5)$LFILL(30~ )
      SiDia          =$SUBSTRING(0~5)$LFILL(30~ )
SiD                =$LEFT(3)$RFILL(30~ )
Diary              =$RIGHT(5)$RFILL(30~ )
ia                =$SUBSTRING(3~2)$RFILL(30~ )
SiTiary            =$REPLACE(D~T)

```