

## History

| Version | Edited by | Date       | Description                                                                                                                                                                        |
|---------|-----------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.0     | A. Lange  | 26.11.2020 | First version                                                                                                                                                                      |
| 1.1     | A. Lange  | 29.11.2020 | Added Show data as list                                                                                                                                                            |
| 1.2     | A. Lange  | 16.03.2021 | %%WEEKDAY%%, %%WEEKDAYPLUSONE%%, %%WEEKDAYPLUSTWO%%, %%WEEKDAYPLUSTHREE%%, %%WEEKDAYPLUSFOUR%%, %%WEEKDAYPLUSFIVE%%, %%WEEKDAYPLUSSIX%% added macros                               |
| 1.3     | A. Lange  | 17.06.2021 | New template command PARAM, LOCATION, CHECKDATA added                                                                                                                              |
| 2.0     | A. Lange  | 08.04.2023 | Revision of complete document<br>Updates to the new version                                                                                                                        |
| 2.1     | A. Lange  | 09.04.2023 | Corrections in translation                                                                                                                                                         |
| 2.2     | A. Lange  | 21.04.2023 | New Commands OFFSET and LAYER                                                                                                                                                      |
| 2.3     | A. Lange  | 29.04.2023 | Grid in Template editor                                                                                                                                                            |
| 2.4     | A. Lange  | 05.05.2023 | CEILING and FLOOR in formatting data fields                                                                                                                                        |
| 2.5     | A. Lange  | 17.03.2024 | Bug fixes<br>ATEXT expanded with BGCOLOR and BGDISTANCE<br>DATAMATRIX added<br>PARAM expanded to include GROUP, LOCATIONINCLUSION, LOCATIONEXCLUSION<br>TEXT expanded with BGCOLOR |
| 2.6     | A. Lange  | 29.11.2024 | Added CALC for calculating numerical values                                                                                                                                        |
| 2.7     | A. Lange  | 03.09.2025 | SET (sub records) added                                                                                                                                                            |

The description refers to the versions:

ESLEasy\_Manager ab Version 1.5.2.1

ESLEasy\_Client ab Version 1.3.2.0

ESLEasy\_Preview ab Version 1.1.3.0

ESLEasy\_Server ab Version 1.4.1.0

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## General

The first part of this document describes how to create templates for ESL-Easy via the template editor. The template editor is part of the ESL-Easy Manager.

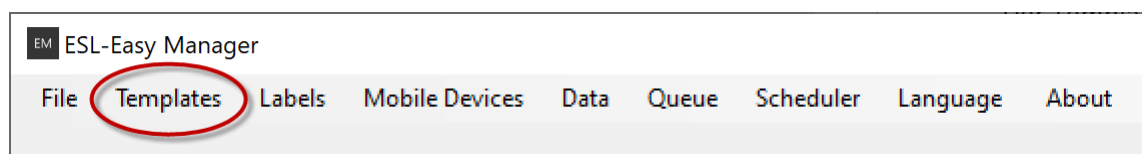
Templates can also be created externally with a text editor. These are text files that contain the source code for generating the graphical content for the labels. However, it is recommended to use the template editor for the creation.

All templates must be stored in the configured folder for ESL-Easy. By default, this is the **\ESLEasy\Templates** folder.

The second part describes the commands that can be used in a template.

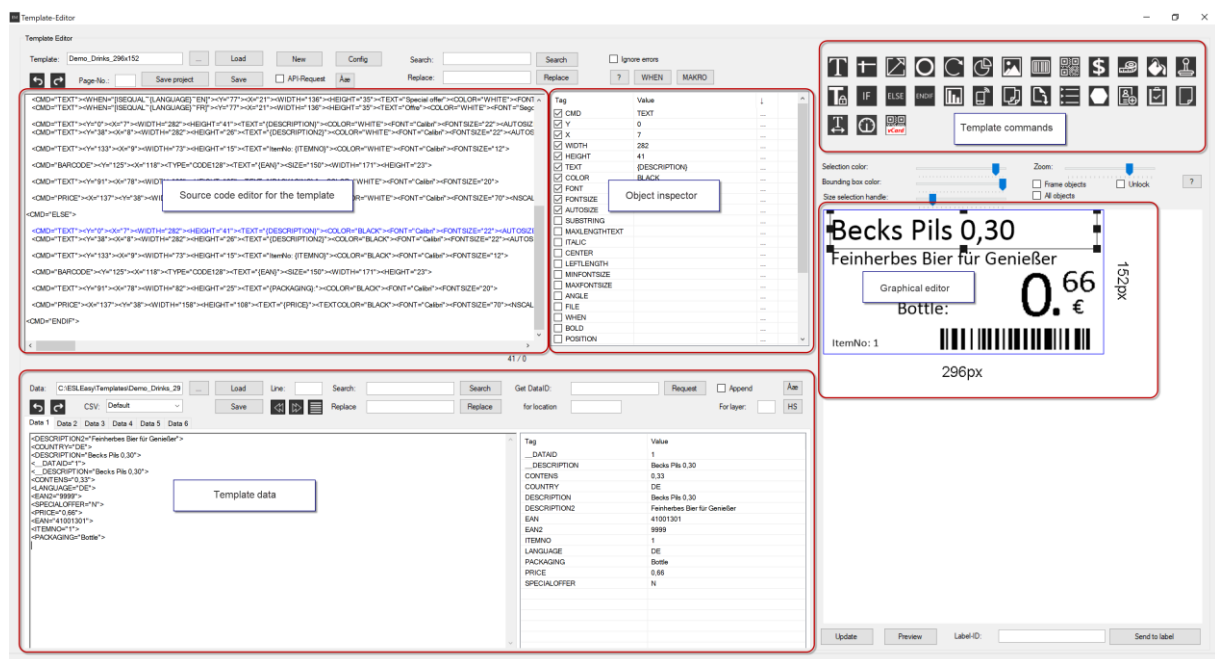
## Template-Editor

You can access the template editor via the main menu of the ESL-Easy Manager:



The template editor allows you to create templates comfortably and to display the result directly with user data.

The template editor is divided into different areas:



## Source Editor

A template can be created directly in the source code editor. All entries are displayed as a result in the graphical editor.

Every change to a template via the source code is only output graphically with a short delay (*if you do not press a key*) in order not to overload the system unnecessarily during the input.

## Indenting source code

In the source code editor, selected text can be indented to the right using the **TAB** key. With **Shift-TAB** the text can be moved back again.

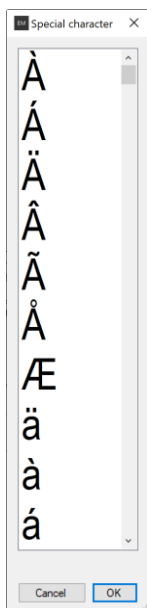
## Find and replace

You can search the source code or the user data or replace it with another text.

|          |                                     |                                        |
|----------|-------------------------------------|----------------------------------------|
| Search:  | <input type="text" value="ITEM"/>   | <input type="button" value="Search"/>  |
| Replace: | <input type="text" value="ITEMNO"/> | <input type="button" value="Replace"/> |

## Inserting special characters

The button  can be used to display a list of special characters, which can then be inserted in the source code or data.



## Enlarge/Reduce Source Code Font

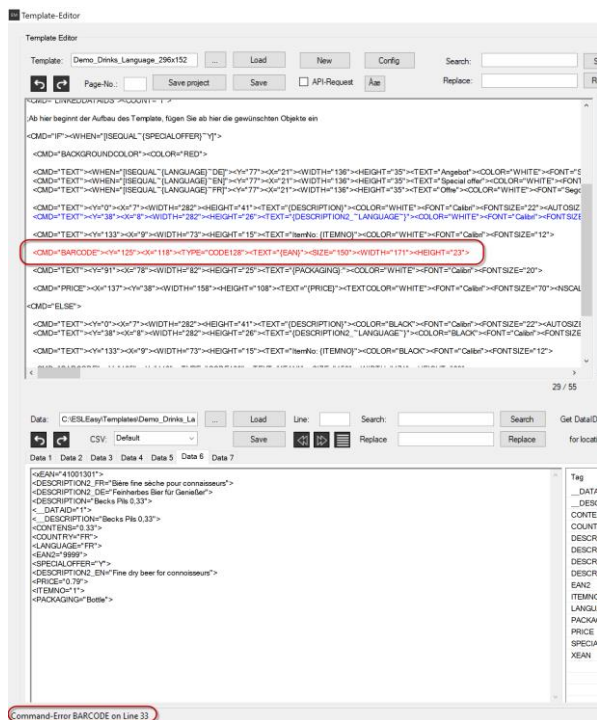
You can use **Ctrl** and the **mouse wheel** to zoom in and out of the font in the source code editor and in the data area.

## Source code interpreter

If an error occurs during the processing of the template, the faulty line is marked in red and an error message is displayed in the status bar.

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**Please note:** There may also be problems with the processing of source code lines, which result from content interpretation of data and do not allow accurate error analysis of the interpreter. If objects are not displayed, please check the properties of the object. Especially **IF** conditions and **WHEN** specifications are a major source of error.

```
<CMD="BARCODE"><Y="125"><X="118"><TYPE="CODE128"><TEXT="{EAN}"><SIZE="150"><WIDTH="171"><HEIGHT="23">
```

#### Command-Error BARCODE on Line 33

The linked data field **{EAN}** does not exist in the user data (*it is missing <EAN="...">*)

```
<DESCRIPTION2_FR="Bière fine sèche pour connaisseurs">
<DESCRIPTION2_DE="Feinherbes Bier für Genießer">
<DESCRIPTION="Becks Pils 0,33">
<__DATAID="1">
<__DESCRIPTION="Becks Pils 0,33">
<CONTENS="0.33">
<COUNTRY="FR">
<LANGUAGE="FR">
<EAN2="9999">
<SPECIALOFFER="Y">
<DESCRIPTION2_EN="Fine dry beer for connoisseurs">
<PRICE="0.79">
<ITEMNO="1">
<PACKAGING="Bottle">
```

With ☐ **Ignore errors**, the execution of the template can be continued in case of an error. For later real use, all errors in a template must be eliminated (*this function is only intended for development*).

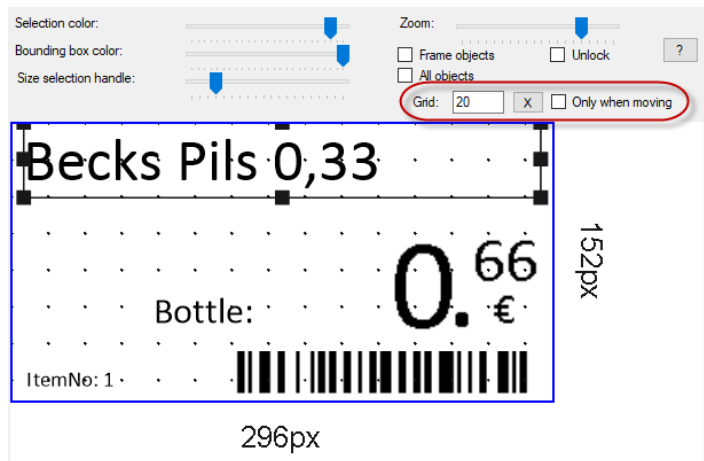
## Graphical editor

The displayed objects in the graphical editor can be changed directly with the mouse, e.g. to adjust position and size.



## Grid

To make it easier to position objects, a grid can be displayed.



To do this, enter the grid spacing in pixels (*a value greater than 1*) and press Enter. The grid is indicated by dots in the label area. You can now only move the objects on the grid.

☒ Only when moving

If "**Only when moving**" is selected, the objects can be freely resized. Only when moving objects is the grid taken as a basis. If "**Only when moving**" is not selected, the resizing of objects on the grid is also performed.

If you enter **0** or **1** as the grid value, or press the **X** button, the grid will be deleted. After that, the objects can be freely positioned and changed again.

## Mark

**Ctrl**: Press and hold to select multiple objects

**Ctrl + Shift**: Exclude an object from multiple selected objects

**Alt**: As long as **Alt** remains pressed, the currently selected object is addressed even if the mouse does not hit the object itself

**Shift:** Several objects lying on top of each other are selected one after the other

An object can be selected by clicking with the mouse or by positioning the cursor in the source code editor on an object command. If an object is difficult to mark with the mouse, it is easier to select the appropriate source code line to mark the desired object.

### Postpone

**Ctrl:** The selected objects can only be moved horizontally

**Ctrl + Shift:** The selected objects can only be moved vertically

### Change via the handles

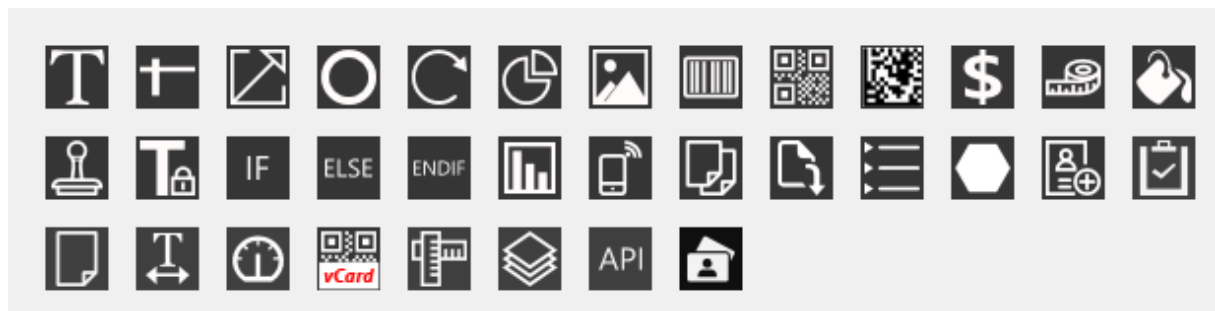
For lines, the **Ctrl** key can also be pressed. Then the line is automatically aligned horizontally or vertically, depending on whether the mouse is closer horizontally or vertically to the line.

### Right mouse button

Shows the context menu, which can be used, for example, to align the objects (*see Aligning Objects*).

### Template Objects

All available objects for template design can be selected via the **icons**.



If you place the mouse over an icon, you will see an explanation of the icon.

The selected object is displayed as a new source code line at the current cursor position (*the cursor is in the source code area after the template parameters*)

```
;From here the structure of the template begins, add the desired objects from here
```

```
<CMD="IF"><WHEN="[ISEQUAL~{SPECIALOFFER}~Y]">
```

```
<CMD="BACKGROUNDCOLOR"><COLOR="RED">
```

or at the end of the template source code and display the possible parameters in the Object inspector. After selection, each object is assigned default values so that the object appears immediately in the graphical editor. You can then adjust the properties of the object according to your needs.

```

: Master-Template
: EWS GmbH & Co KG

:Dimensions
<CMD="CANVAS"><WIDTH="400"><HEIGHT="300">

:Background-Color
<CMD="BACKGROUNDCOLOR"><COLOR="WHITE">

:Quality
<CMD="QUALITY"><MODE="ESL">

:Textquality
<CMD="TEXTQUALITY"><MODE="ESL">

:Connected DataID's
<CMD="LINKEDDATAIDS"><COUNT="0">
<CMD="TEXT"><Y="0"><X="0"><WIDTH="50"><HEIGHT="25"><TEXT="Text"><COLOR="BLACK"><FONT="Calibri"><FONTSIZE="22"><BOLD="FALSE">

```

| Tag                                          | Value   |
|----------------------------------------------|---------|
| <input checked="" type="checkbox"/> CMD      | TEXT    |
| <input checked="" type="checkbox"/> Y        | 0       |
| <input checked="" type="checkbox"/> X        | 0       |
| <input checked="" type="checkbox"/> WIDTH    | 50      |
| <input checked="" type="checkbox"/> HEIGHT   | 25      |
| <input checked="" type="checkbox"/> TEXT     | Text    |
| <input checked="" type="checkbox"/> COLOR    | BLACK   |
| <input checked="" type="checkbox"/> FONT     | Calibri |
| <input checked="" type="checkbox"/> FONTSIZE | 22      |
| <input checked="" type="checkbox"/> BOLD     | FALSE   |
| <input type="checkbox"/> AUTOSIZE            |         |
| <input type="checkbox"/> SUBSTRING           |         |
| <input type="checkbox"/> MAXLENGTHTEXT       |         |
| <input type="checkbox"/> ITALIC              |         |
| <input type="checkbox"/> CENTER              |         |
| <input type="checkbox"/> LEFTLENGTH          |         |
| <input type="checkbox"/> MINFONTSIZE         |         |
| <input type="checkbox"/> MAXFONTSIZE         |         |
| <input type="checkbox"/> ANGEL               |         |
| <input type="checkbox"/> WHEN                |         |
| <input type="checkbox"/> POSITION            |         |
| <input type="checkbox"/> LTRIM               |         |
| <input type="checkbox"/> MAXLENGTH           |         |
| <input type="checkbox"/> WORDWRAP            |         |

New objects are always inserted at the last active mouse position if possible. Otherwise, they are set to the default position.

The properties of the objects are described in the **command reference**.

## Graphical Editor Control

Various settings for the output can be made in the graphical editor:

The "**Selection color**" slider can be used to adjust the colors for the borders of objects (*e.g. useful if the background color is equal to the border color, such as black*).

Use "**Zoom**" to zoom in or out of the display.

"**Frame objects**" allows you to display the objects with the physical parameters of the boundaries, indicating the given space for an object and overlaps with other objects.

"**All objects**" displays all objects present in the source code, regardless of whether the object would be currently displayed (*e.g. currently excluded by a **WHEN** condition*).

The handles of the objects can be changed in size with "**Size selection handle**".

## Lock objects

Each graphical object has a property **<LOCK>** that can be set in the Object inspector or directly in the source code. This locks this object in the graphical editor so that it can no longer be selected and changed there. To unlock, the object must be selected in the source code editor (*line*) to remove the **<LOCK>** again.

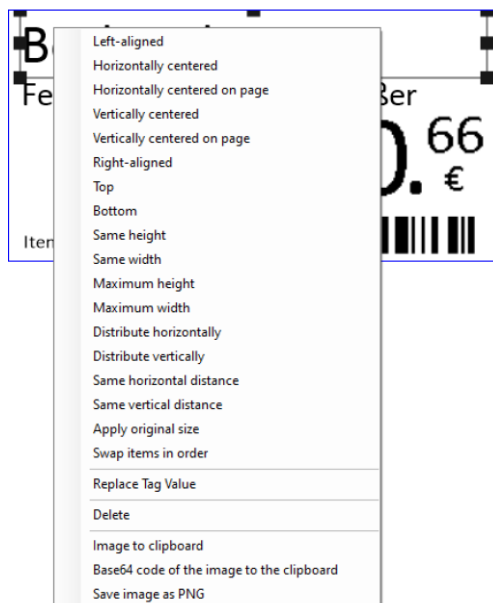
If selected  **Unlock**, this temporarily unlocks all objects so that all objects can be selected again. The locks of the individual objects are retained so that they are active again after disabling "Unlock".

## Align Objects (*context menu*)

You can have objects aligned by the system:

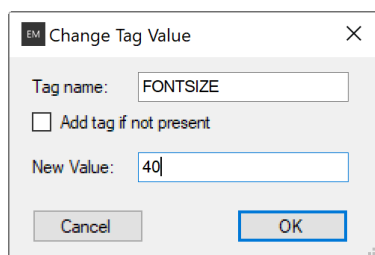
- If only one object is marked, this is always aligned in relation to the label edges
- If several objects are selected, alignment is made to the **last** selected object

You can get the alignment dialog by pressing the **right** mouse button above the graphical editor:



## Set tag value

If a certain tag is to be set the same for all selected objects (e.g. *same font size*), this can be done via the **"Replace Tag Value"** dialog:



Enter the tag name to be set in all objects (e.g. ***FONTSIZE***) and the desired value.

**"Add tag if not present"** adds the tag in all objects if it did not previously exist. Without this selection, the value in the objects is replaced only if the tag already exists in the object.

## Delete Objects

**"Delete"** removes the selected objects from the template.

## Object Inspector

The Object inspector displays all available properties of the current object. Only checked properties are currently active:

☒ FONT      Calibri      ...

Individual values of an object can be changed via the Object Inspector (*also possible directly in the source code*).

| Tag                                          | Value           |     |
|----------------------------------------------|-----------------|-----|
| <input checked="" type="checkbox"/> CMD      | TEXT            | ... |
| <input checked="" type="checkbox"/> Y        | 113             | ... |
| <input checked="" type="checkbox"/> X        | 366             | ... |
| <input checked="" type="checkbox"/> TEXT     | {@@PREIS(0.00)} | ... |
| <input checked="" type="checkbox"/> WIDTH    | 270             | ... |
| <input checked="" type="checkbox"/> HEIGHT   | 90              | ... |
| <input checked="" type="checkbox"/> COLOR    | BLACK           | ... |
| <input checked="" type="checkbox"/> FONT     | Calibri         | ... |
| <input checked="" type="checkbox"/> FONTSIZE | 85              | ... |
| <input checked="" type="checkbox"/> RIGHT    |                 | ... |
| <input type="checkbox"/> AUTOSIZE            |                 | ... |
| <input type="checkbox"/> SUBSTRING           |                 | ... |
| <input type="checkbox"/> MAXLENGTHTEXT       |                 | ... |
| <input type="checkbox"/> ITALIC              |                 | ... |
| <input type="checkbox"/> CENTER              |                 | ... |
| <input type="checkbox"/> LEFTLENGTH          |                 | ... |
| <input type="checkbox"/> MINFONTSIZE         |                 | ... |
| <input type="checkbox"/> MAXFONTSIZE         |                 | ... |
| <input type="checkbox"/> ANGEL               |                 | ... |
| <input type="checkbox"/> WHEN                |                 | ... |
| <input type="checkbox"/> BOLD                |                 | ... |
| <input type="checkbox"/> POSITION            |                 | ... |
| <input type="checkbox"/> LTRIM               |                 | ... |
| <input type="checkbox"/> MAXLENGTH           |                 | ... |

Properties of an object that allow a selection can be selected via "...":

| Tag                                         | Value                       |     |
|---------------------------------------------|-----------------------------|-----|
| <input checked="" type="checkbox"/> CMD     | BARCODE                     | ... |
| <input checked="" type="checkbox"/> WHEN    | {ISLENGTHLESSEQUAL~(EAN)~8} | ... |
| <input checked="" type="checkbox"/> Y       | 160                         | ... |
| <input checked="" type="checkbox"/> X       | 15                          | ... |
| <input checked="" type="checkbox"/> TYPE    | EAN8                        | ... |
| <input checked="" type="checkbox"/> TEXT    | EAN8                        | ... |
| <input checked="" type="checkbox"/> SIZE    | EAN13                       | ... |
| <input checked="" type="checkbox"/> BGCOLOR | CODE48BAR                   | ... |
| <input checked="" type="checkbox"/> WIDTH   | CODE128                     | ... |
| <input checked="" type="checkbox"/> HEIGHT  | CODE128A                    | ... |
| <input checked="" type="checkbox"/> ROTATE  | CODE128B                    | ... |
| <input type="checkbox"/> FLIP               | CODE128C                    | ... |
| <input type="checkbox"/> LOCK               | CODE39                      | ... |
| <input type="checkbox"/> BACKCOLOR          | CODE39EXTENDED              | ... |
| <input type="checkbox"/> FORECOLOR          | CODE93                      | ... |
| <input type="checkbox"/> LABEL              | INDUSTRIAL20F5              | ... |
|                                             | 20F5                        | ... |
|                                             | 20F5I                       | ... |
|                                             | ISBN                        | ... |
|                                             | UPCA                        | ... |
|                                             | UPCE                        | ... |
|                                             | BOOKLAND                    | ... |
|                                             | CODE11                      | ... |
|                                             | FIM                         | ... |
|                                             | ITF14                       | ... |
|                                             | JAN13                       | ... |
|                                             | LOGMARS                     | ... |
|                                             | MODIFIEDPLESSEY             | ... |
|                                             | MSIMOD10                    | ... |
|                                             | MSIMOD11                    | ... |
|                                             | MSIMOD11MOD10               | ... |
|                                             | PHARMACODE                  | ... |
|                                             | POSTNET                     | ... |
|                                             | TELEPEN                     | ... |

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## Data

The data area makes it possible to generate test data for the link in the template. Current data can be queried from the imported data records or data can be generated manually. In order to be able to test a template with all possible data combinations, several data areas (*tabs*) can be created, which can contain different test data. For example, you can generate data that contains long and short texts to check whether the text is displayed correctly. It is also possible to generate data with different contents, e.g. to test the representation for an special offer (**WHEN condition**). The generated test data can be saved to a template as a project file in order to have this data available again at any time later (*same file name with the extension . TPL*). The created test data does not affect the real data in the database (*no master data changes are made*).

## Link data

In the template, many outputs are linked to data that later comes from the ESL-Easy product database or from external sources. In order to be able to test the template with realistic data during creation, data can be provided for the link.

Test data is always presented in the form `<Fieldname="Content">` created, e.g. `<PRICE="12,99">`.

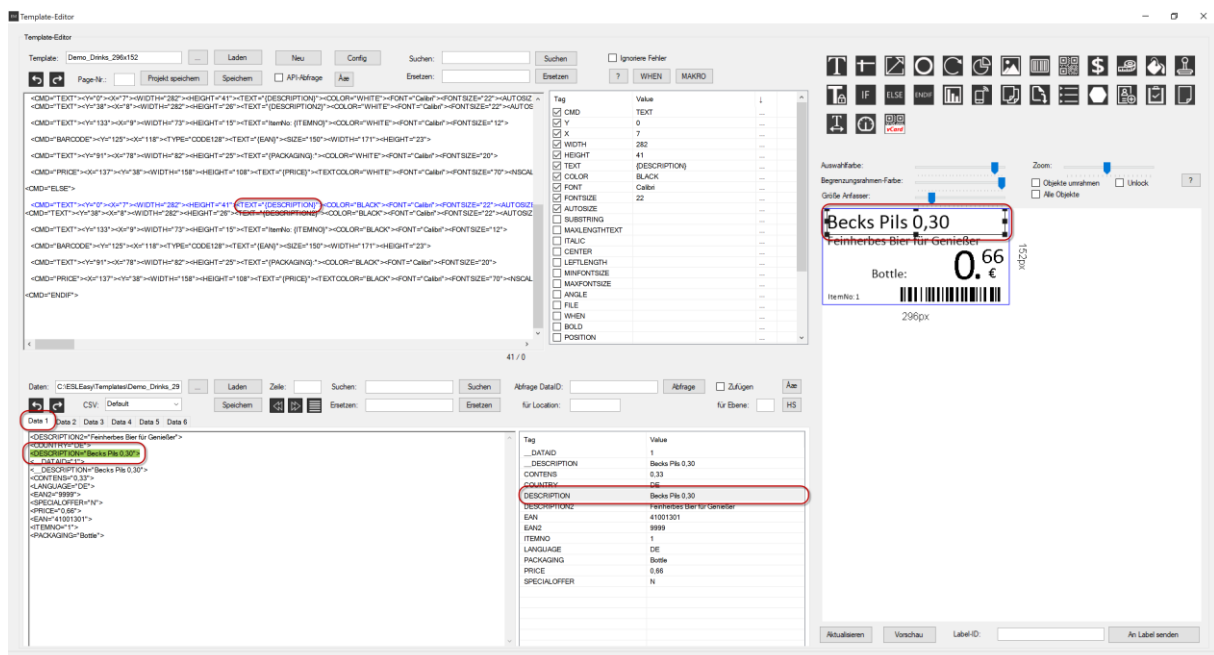
In the template, the field name can be accessed with `{field name}`.

## Example:

```
<CMD="TEXT"><Y="133"><X="9"><WIDTH="73"><HEIGHT="15"><TEXT="ItemNo: {ITEMNO}"><COLOR="BLACK"><FONT="Calibri"><FONTSIZE="12">
```

## Data tab

In order to be able to test the template with different data, several tabs can be opened, each containing its own data. The activated tab then becomes the current data that is linked to the template.



To create a new tab, press the **right** mouse button in the data area:

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|                         |
|-------------------------|
| New data tab            |
| Close tab               |
| Close all tabs          |
| Format data             |
| Copy data to clipboard  |
| Copy value to clipboard |

and select "New data tab"

### Format data

To arrange (*format*) the records one below the other, select "**Format data**" from the context menu (*right mouse button*). Each data field is thus displayed in its own row.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <pre> &lt;PRODUKTGRUPPEN="5"&gt;&lt;HERSTELLERMARKEN="Bf"&gt;&lt;ROWCOUNT="1"&gt;&lt;PFANDSTRING="Bf"&gt;&lt;HAUPTARTIKELNR="140819"&gt; &lt;PREISPROBASISMENGE="2.64"&gt;&lt;AUSBAU_KURZ="ENDTIME"&gt;&lt;FUELLMENGE="g"&gt;&lt;GENUSSTYP="EINWEGMEHRWEG"&gt;&lt;PFANDFREI"&gt; &lt;DESCRIPTION="Bf Rol"&gt;&lt;BASISMENGE="100"&gt;&lt;MEHRWEG="0"&gt;&lt;PRODUKTZUSATZ_ZEILEN="ARTIKELBEZEICHNUNG="Bf Rol"&gt; &lt;MEHRWERTSTEUERSATZ="5"&gt;&lt;FUELLMENGE="45"&gt;&lt;BESONDERHEITEN="GESCHMACK"&gt;&lt;BASISPREIS="100g = 2.64"&gt; &lt;BASISMENGE="g"&gt;&lt;DATAID="140819-1-0-0"&gt;&lt;STORER_PREISVORTEIL="09.13"&gt;&lt;INHALT_TEIL_TEXT"&gt; &lt;FIRSTROWONPAGE="1"&gt;&lt;BRUTTOLADENVERKAUFPREIS="1.19"&gt;&lt;VERKOSTUNGNOTIZ="Me Bf Rol gibt Du dir den richtigen Snack für den kleinen Hunger rechtzeitig. Denn die würzige Mix-Salami befindet sich in einem leckeren Weizenbrot, das locker in eine Hand zu fassen ist, um jederzeit gerne abgerollt zu werden."&gt;&lt;LAND="FARBE"&gt;&lt;PLU="ALKOHOL"&gt;&lt;PROSTARTIKELNAME="Bf Rol"&gt;&lt;CURRENTPAGE="1"&gt;&lt;PASST_ZU"&gt; &lt;LASTROWONPAGE="1"&gt;&lt;QUERYTIME="2020-11-06T09:13:23.9814899+00:00"&gt;&lt;STAMMWURZE="PROSTPRODUKTNAME="Rol"&gt; &lt;BRUTTOSONDERPREIS="0"&gt;&lt;DESCRIPTION="Bf Rol - STÜCK"&gt;&lt;WAHRUNGSSYMBOL="€"&gt;&lt;AUSPRAEGUNG="45g"&gt;&lt;HERKUNFT_KURZ"&gt; &lt;ANZAHLUMVERPACKUNGEN="0"&gt;&lt;ARTIKELBEZEICHNUNGERWEITER="FILIALNR="002772"&gt;&lt;PAGECOUNT="1"&gt;&lt;BRUTTOPREIS="1.19"&gt; &lt;EAN13="4251057410289"&gt;&lt;PAGESEITE="1000"&gt;&lt;FILIALEBEZEICHNUNG="Filiale Berlin Umland"&gt;&lt;PFANDGESAMT="0"&gt; &lt;QUERYTIME="06.11"&gt;&lt;REBSORTE="ANZAHLINZELTEILE="1"&gt;&lt;PFAND_DRUCK="ALKOHOLSTRING"&gt; </pre> | <pre> &lt;PRODUKTGRUPPEN="5"&gt; &lt;HERSTELLERMARKEN="Bf"&gt; &lt;ROWCOUNT="1"&gt; &lt;PFANDSTRING="Bf"&gt; &lt;FILIALNR="002772"&gt; &lt;HAUPTARTIKELNR="140819"&gt; &lt;PREISPROBASISMENGE="2.64"&gt; &lt;ARTIKELBEZEICHNUNGERWEITER=" &lt;AUSBAU_KURZ"&gt; &lt;ENDTIME"&gt; &lt;FUELLMENGE="g"&gt; &lt;GENUSSTYP=" &lt;EINWEGMEHRWEG="PFANDFREI"&gt; &lt;DESCRIPTION="Bf Rol"&gt; &lt;MEHRWEG="0"&gt; &lt;PRODUKTZUSATZ_ZEILEN"&gt; &lt;ARTIKELBEZEICHNUNG="Bf Rol"&gt; &lt;MEHRWERTSTEUERSATZ="5"&gt; &lt;QUERYTIME="06.11"&gt; &lt;FUELLMENGE="45"&gt; &lt;BESONDERHEITEN"&gt; &lt;PFAND_DRUCK"&gt; &lt;FILIALEBEZEICHNUNG="Filiale Berlin Umland"&gt; &lt;BASISPREIS="100g = 2.64"&gt; &lt;BASISMENGE="g"&gt; &lt;DATAID="140819-1-0-0"&gt; &lt;QUERYTIME="09.13"&gt; </pre> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The data is also displayed in a list next to the source data. If you select a dataset there, the underlying part of the source data is highlighted:

| <pre> &lt;FARBE&gt; &lt;PLU&gt; &lt;BASISMENGE="100"&gt; &lt;PROSTARTIKELNAME="Bf Rol"&gt; &lt;CURRENTPAGE="1"&gt; &lt;PASST_ZU&gt; &lt;LASTROWONPAGE="1"&gt; &lt;QUERYTIME="2020-11-06T09:13:23.9814899+00:00"&gt; &lt;STAMMWURZE&gt; &lt;PROSTPRODUKTNAME="Rol"&gt; &lt;FIRSTROWONPAGE="1"&gt; &lt;DESCRIPTION="Bf Rol - STÜCK"&gt; &lt;AUSPRAEGUNG="45g"&gt; &lt;HERKUNFT_KURZ"&gt; &lt;BRUTTOLADENVERKAUFPREIS="1.19"&gt; &lt;ALKOHOL"&gt; &lt;PAGESEITE="1"&gt; &lt;ANZAHLINZELTEILE="1"&gt; &lt;BRUTTOPREIS="1.19"&gt; &lt;EAN13="4251057410289"&gt; &lt;PAGESEITE="1000"&gt; &lt;GESCHMACK"&gt; &lt;PFANDGESAMT="0"&gt; &lt;WAHRUNGSSYMBOL="€"&gt; &lt;REBSORTE"&gt; &lt;ANZAHLUMVERPACKUNGEN="0"&gt; &lt;STORER_PREISVORTEIL"&gt; </pre> | <table> <thead> <tr> <th>Name</th> <th>Inhalt</th> </tr> </thead> <tbody> <tr> <td>_DATAID</td> <td>140819-1-0-0</td> </tr> <tr> <td>_DESCRIPTION</td> <td>Bf Rol - STÜCK</td> </tr> <tr> <td>ALKOHOL</td> <td>Bf Rol - STÜCK</td> </tr> <tr> <td>ALKOHOLSTRING</td> <td></td> </tr> <tr> <td>ANZAHLINZELTEILE</td> <td>1</td> </tr> <tr> <td>ANZAHLUMVERPACKUNGEN</td> <td>0</td> </tr> <tr> <td>ARTIKELBEZEICHNUNG</td> <td>Bf Rol</td> </tr> <tr> <td>ARTIKELBEZEICHNUNGERWEITER</td> <td></td> </tr> <tr> <td>AUSBAU_KURZ</td> <td></td> </tr> <tr> <td>AUSPRAEGUNG</td> <td>45g</td> </tr> <tr> <td>BASISMENGE</td> <td>100</td> </tr> <tr> <td>BASISMENGE-EINHEIT</td> <td>g</td> </tr> <tr> <td>BASISPREIS</td> <td>100g = 2.64</td> </tr> <tr> <td>BESONDERHEITEN</td> <td></td> </tr> <tr> <td>BRUTTOLADENVERKAUFPREIS</td> <td>1.19</td> </tr> <tr> <td>BRUTTOPREIS</td> <td>1.19</td> </tr> <tr> <td>BRUTTOSONDERPREIS</td> <td>0</td> </tr> <tr> <td>CURRENTPAGE</td> <td>1</td> </tr> <tr> <td>DESCRIPTION</td> <td>Bf Rol</td> </tr> <tr> <td>...</td> <td>...</td> </tr> </tbody> </table> | Name | Inhalt | _DATAID | 140819-1-0-0 | _DESCRIPTION | Bf Rol - STÜCK | ALKOHOL | Bf Rol - STÜCK | ALKOHOLSTRING |  | ANZAHLINZELTEILE | 1 | ANZAHLUMVERPACKUNGEN | 0 | ARTIKELBEZEICHNUNG | Bf Rol | ARTIKELBEZEICHNUNGERWEITER |  | AUSBAU_KURZ |  | AUSPRAEGUNG | 45g | BASISMENGE | 100 | BASISMENGE-EINHEIT | g | BASISPREIS | 100g = 2.64 | BESONDERHEITEN |  | BRUTTOLADENVERKAUFPREIS | 1.19 | BRUTTOPREIS | 1.19 | BRUTTOSONDERPREIS | 0 | CURRENTPAGE | 1 | DESCRIPTION | Bf Rol | ... | ... |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|---------|--------------|--------------|----------------|---------|----------------|---------------|--|------------------|---|----------------------|---|--------------------|--------|----------------------------|--|-------------|--|-------------|-----|------------|-----|--------------------|---|------------|-------------|----------------|--|-------------------------|------|-------------|------|-------------------|---|-------------|---|-------------|--------|-----|-----|
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Inhalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| _DATAID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 140819-1-0-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| _DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Bf Rol - STÜCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| ALKOHOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Bf Rol - STÜCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| ALKOHOLSTRING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| ANZAHLINZELTEILE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| ANZAHLUMVERPACKUNGEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| ARTIKELBEZEICHNUNG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Bf Rol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| ARTIKELBEZEICHNUNGERWEITER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| AUSBAU_KURZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| AUSPRAEGUNG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 45g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| BASISMENGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| BASISMENGE-EINHEIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| BASISPREIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 100g = 2.64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| BESONDERHEITEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| BRUTTOLADENVERKAUFPREIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| BRUTTOPREIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| BRUTTOSONDERPREIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| CURRENTPAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Bf Rol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |
| ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |        |         |              |              |                |         |                |               |  |                  |   |                      |   |                    |        |                            |  |             |  |             |     |            |     |                    |   |            |             |                |  |                         |      |             |      |                   |   |             |   |             |        |     |     |

### Inserting data fields into the template source code

You can select an area in the source code for the template (e.g. *the content of a text tag*), or place the cursor at a position where the data field is to be inserted:

<TEXT="Text">

If you now **double-click** on a data field in the list, the selected area in the template source code is replaced by the data fields `{data field name}` or the data field is inserted at the cursor position:

|              |                              |
|--------------|------------------------------|
| COUNT        | DE                           |
| DESCRIPTION  | Bf Rol 0,30                  |
| DESCRIPTION2 | Feinherbes Bier für Genießer |

← double-click

Result: <TEXT="{DESCRIPTION}">

### Retrieving data

You can also retrieve data directly from the **ESL-Easy product database**, from **EXCEL** or **CSV** files or a connected system:

|              |                                     |                                        |                                 |
|--------------|-------------------------------------|----------------------------------------|---------------------------------|
| Get DataID:  | <input type="text" value="105860"/> | <input type="button" value="Request"/> | <input type="checkbox"/> Append |
| for location | <input type="text" value="10343"/>  | For layer:                             | <input type="text"/>            |

ESL-Easy retrieves the data accordingly and outputs it in the current tab.

For **CSV** files, the encoding of the file can be specified during import:

|                  |   |
|------------------|---|
| Default          | ▼ |
| Default          |   |
| ASCII            |   |
| UTF8             |   |
| UTF7             |   |
| UTF32            |   |
| Unicode          |   |
| BigEndianUnicode |   |

**EXCEL** or **CSV** files usually contain several data records. To access each row of data, you can enter the row number or scroll through the rows of data.

|                                                                                                                 |                                |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------|
| Line:                                                                                                           | <input type="text" value="1"/> |
| <input type="button" value="Previous"/> <input type="button" value="Next"/> <input type="button" value="List"/> |                                |

Please note: In order to import **EXCEL** files, a locally installed **Microsoft EXCEL** is required!

### View and select data as a list

|                                                                                                                 |                                |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------|
| Line:                                                                                                           | <input type="text" value="1"/> |
| <input type="button" value="Previous"/> <input type="button" value="Next"/> <input type="button" value="List"/> |                                |

You can display the data to be imported in a selection list.

| ItemNo | StoreNo | Description       | Description2                        | Contents | Packaging | Price | EAN           | EAN2 | SpecialOffer |
|--------|---------|-------------------|-------------------------------------|----------|-----------|-------|---------------|------|--------------|
| 1      | 1       | Becks Pils 0,33   | Feinherbes Bier für Genießer        | 0,33     | Bottle    | 0,79  | 41001301      | 9999 | N            |
| 1      | 2       | Becks Pils 0,33   | Feinherbes Bier für Genießer        | 0,33     | Bottle    | 0,79  | 41001301      | 9999 | N            |
| 1      | 3       | Becks Pils 0,33   | Feinherbes Bier für Genießer        | 0,33     | Bottle    | 0,79  | 41001301      | 9999 | N            |
| 2      | 1       | Cachaca Pitu 0,70 | Perfekt für Caipirinha              | 0,75     | Bottle    | 9,89  | 4000269003428 |      | N            |
| 2      | 2       | Cachaca Pitu 0,70 | Perfekt für Caipirinha              | 0,75     | Bottle    | 8,99  | 4000269003428 |      | N            |
| 2      | 3       | Cachaca Pitu 0,70 | Perfekt für Caipirinha              | 0,75     | Bottle    | 7,99  | 4000269003428 |      | J            |
| 3      | 1       | Jägermeister 0,7  | Der Likör für Kenner mit dem Hirsch | 0,7      | Bottle    | 11,39 | 4067700011015 | 6666 | N            |
| 3      | 2       | Jägermeister 0,7  | Der Likör für Kenner mit dem Hirsch | 0,7      | Bottle    | 10,99 | 4067700011015 | 6666 | J            |
| 3      | 3       | Jägermeister 0,7  | Der Likör für Kenner mit dem Hirsch | 0,7      | Bottle    | 11,39 | 4067700011015 | 6666 | N            |

### Several DataID's on one label

It is possible that several **DataID's** are required within a template, e.g. if several items are to be output on one label. Since in this case several DataID's must be retrieved, and the returned data fields have the same name for each DataID, the data can be divided into layers.

Get DataID:   ☒ Append

for location  For layer:

In this case, the data from the current query is added to the data as a **2nd level**. In the data, this is indicated by a "**\_2**" appended to the data field:

```
<VPACKBEZK_2="Kist"><EINZELPREISNORMAL_2="0"><ARTBEZ_2="Augustiner Hell 20x0,5"><BASISEINHEIT_2="1"><BASISPREIS="2.00">
<BASIS="20"><PREIS="17.990000"><LEERGARTNR_2="990310"><AE="0"><EWMW="M"><BASISEINHEITE_2="1"><EINZELPREIS_2="0.9500000">
<_DATAID="105860-0_20"><EAN_2="4105250022003"><_DATAID_2="105760-0_20"><PREISNORMAL="0"><EAN="41057544"><BASIS_2="20">
<_DESCRIPTION="Schweiger Schmankerl Weiße 20x0,5"><INHVKEBEZK_2="I"><_DESCRIPTION_2="Augustiner Hell 20x0,5">
<LEERGARTNR="990310"><VKEEINZ_2="1"><ARTNR="105860"><AE_2="0"><FILNR_2="343"><ENDTIME"><INHVKE_2="0.5000">
<TS_VONDATUM="10.03.2020 00:00:00"><BASISEINHEITE="1"><PREIS_2="16.990000"><VPACKBEZLEINZ="Flasche"><VKE_2="20"><KZVL="V">
<KZBASISART="2"><LIEFNR"><PREISNORMAL_2="0"><KZSONDERVK="0"><BASISPREIS_2="1.90"><AEE="1"><ARTNR_2="105760"><AEE_2
="1"><WGR_2="10"><EINZELPREIS="1.0000000"><LEERGPREIS_2="0.0800000"><VPACKBEZLEINZ_2="Flasche"><VKEEINZ="1">
<INHVKEBEZK="I"><ARTBEZ="Schweiger Schmankerl Weiße 0,5"><ENDTIME_2"><BASISPREIS="1.80"><EWMW_2="M"><BASISEINHEIT="1">
<KZVL_2="V"><VKE="20"><FILNR="343"><KZBASISART_2="2"><TS_BISDATUM"><TS_BISDATUM_2"><VPACKBEZL="Kiste"><LIEFNR_2
"><ARTBEZ="Schweiger Schmankerl Weiße 20x0,5"><VPACKBEZK="Kist"><ARTBEZ_2="Augustiner Hell 0,5"><WGR="10"><TS_VONDATUM_2
="10.01.2020 00:00:00"><BASISPREIS_2="1.70"><INHVKE="0.5000"><LEERGPREIS="3.1000000"><KZSONDERVK_2="0"><LEERGPREIS_2
="3.1000000"><EINZELPREISNORMAL="0"><VPACKBEZL_2="Kiste"><LEERGPREIS="0.0800000">
```

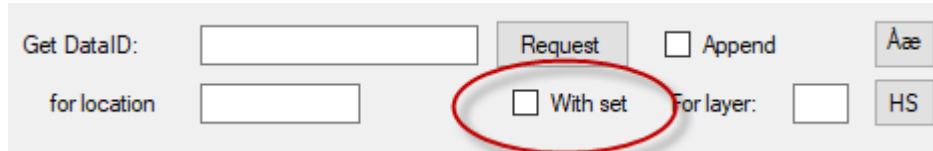
This allows you to access the field "**PREIS**" of the second level with **{PREIS\_2}** in the template.

In the template, you can access the content via the name of the data field with attached layer (e.g. **ITEMNO\_2**), or alternatively use the **LAYER** command (see **LAYER** command).

### SET (sub records)

If information about sub-data records (e.g. *set articles*) is specified in the data for a **DATAID** (`<_SETx_DATAID="">`), all data fields for the SET-DATAID's are additionally provided. All data fields are preceded by `_SETx_` (e.g. `<_SET1_DESCRIPTION="xxx">`).

In the template editor, you can specify whether the sub-data for template development should be loaded additionally:



The screenshot shows a form with the following elements:
 

- 'Get DataID:' followed by a text input field.
- 'Request' button.
- 'Append' checkbox.
- 'Aæ' button.
- 'for location' followed by a text input field.
- 'With set' checkbox, which is circled in red.
- 'For layer:' followed by a text input field.
- 'HS' button.

In the template, these data fields can then be accessed like any other data field.

If the numbering of the SET sub data is not known (for example, the set sub data records were not specified by an external ERP system in ascending order starting with 1, but e.g. with 1,3,5,7), all sub-data records with

`<_SET#x_data field>`

can be accessed. The **X** after the **hash** then indicates the sub-record to be accessed in sorted order.

#### Example:

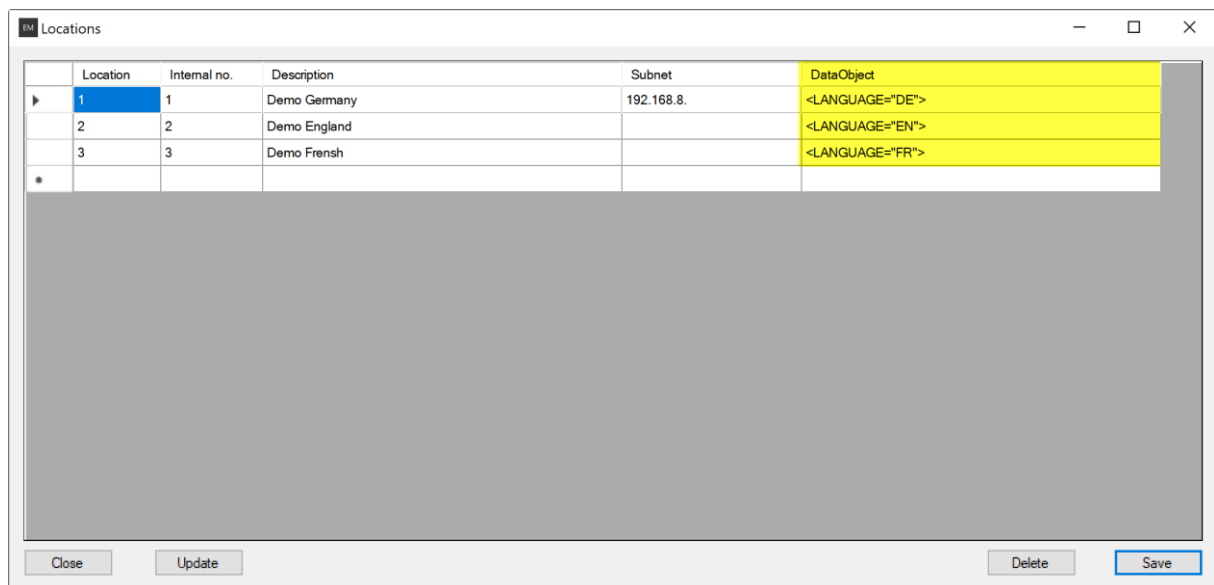
Existing sub-data fields:

```
<_SET1_DESCRIPTION="abc">
<_SET3_DESCRIPTION="abc">
<_SET5_DESCRIPTION="abc">
```

Now, to access the **second** sub record, either `{_SET3_DESCRIPTION}` or `{_SET#2_DESCRIPTION}` can be used, because the sub record `<_SET3_DESCRIPTION="abc">` in order is the **second** sub record.

### Location Tags

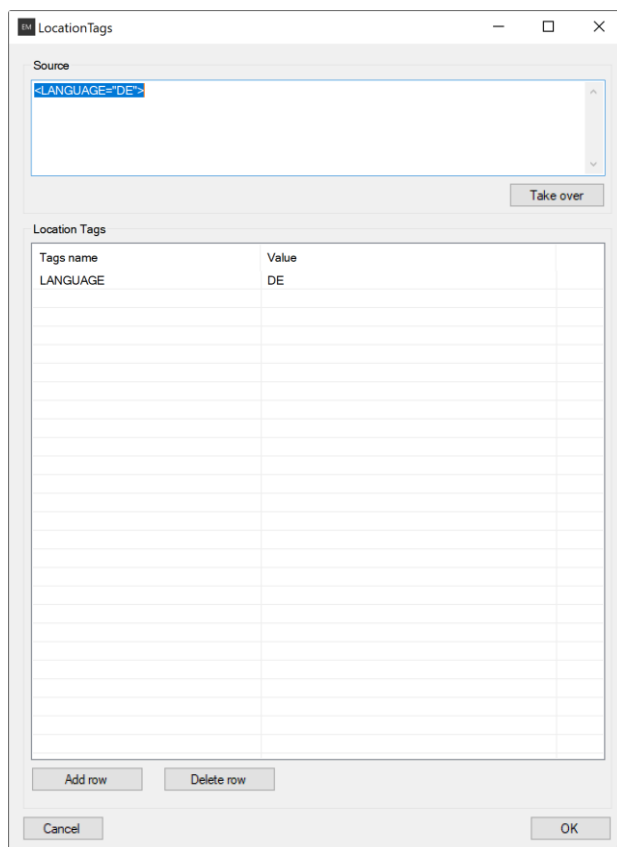
In the location dialog, additional data fields can be stored for each location, which are always automatically available (e.g. if a label is linked in a location). You can work with this data in the same way as with master data. The tags are added to the master data tags as if they were part of the master data.



| Location | Internal no. | Description  | Subnet     | DataObject      |
|----------|--------------|--------------|------------|-----------------|
| 1        | 1            | Demo Germany | 192.168.8. | <LANGUAGE="DE"> |
| 2        | 2            | Demo England |            | <LANGUAGE="EN"> |
| 3        | 3            | Demo French  |            | <LANGUAGE="FR"> |

Close Update Delete Save

Double-clicking on **DataObject** calls up the maintenance dialog for location tags:



Source

<LANGUAGE="DE">

Take over

Location Tags

| Tags name | Value |
|-----------|-------|
| LANGUAGE  | DE    |

Add row Delete row

Cancel OK

Example of using location tags:

Query the Data-ID **1** from location **1**:

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Get DataID:   ☐ Append   
for location  For layer:

| Tag           | Value            |
|---------------|------------------|
| __DATAID      | 200001           |
| __DESCRIPTION | XS: 1,20 m/10 mm |
| ARTIKELNR     | 200001           |
| FARBE         | schwarz          |
| GROESSE       | XS: 1,20 m/10 mm |
| LANGUAGE      | DE               |
| UVP           | 7,99             |

Query the Data-ID **1** from location **2**:

Get DataID:   ☐ Append

for location  For layer:

| Tag             | Value            |
|-----------------|------------------|
| __DATAID        | 200001           |
| __DESCRIPTION   | XS: 1,20 m/10 mm |
| ARTIKELNR       | 200001           |
| FARBE           | schwarz          |
| GROESSE         | XS: 1,20 m/10 mm |
| <b>LANGUAGE</b> | <b>EN</b>        |
| UVP             | 7,99             |

### Dynamic tag names

Tag names for the output on the labels or for **WHEN** conditions can be dynamically assembled, e.g. to include the content of location tags in the tag name.

Access to the contents of a tag is marked with **+Tag name+**.

#### Example:

```
<WHEN=" [ ISNOTEMPTY~ENERGY_CLASS_2017_+LANGUAGE+ ] ">
```

The **WHEN** condition is based on a dynamically assembled tag name from the static part **ENERGY\_CLASS\_2017\_** and the contents of the location tag **LANGUAGE**. If **LANGUAGE** = "DE", the tag name is **ENERGY\_CLASS\_2017\_DE**. According to the contents of the tag **ENERGY\_CLASS\_2017\_DE** is used for output to the label.

### Project file

It is possible to save the retrieved or manually created data for a template. This means that this data is available again the next time the template is edited, without having to create it again. To do this, enter the name of the template with the extension **.prj** as the file name under **Data:** and press **"Save"**.

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Template: Demo\_Drinks\_296x152 ... Load

Page-No.: Save project Save

```

<CMD="TEXTQUALITY"><MODE="ESL">

;Connected DataID's
<CMD="LINKEDDATAIDS"><COUNT="0">

;From here the structure of the template begins, add the desired objects from here

<CMD="IF"><WHEN="([ISEQUAL~{SPECIALOFFER}~Y]">

  <CMD="BACKGROUNDCOLOR"><COLOR="RED">

  <CMD="TEXT"><WHEN="([ISEQUAL~{LANGUAGE}~DE]"><Y="77"><X="21'
  <CMD="TEXT"><WHEN="([ISEQUAL~{LANGUAGE}~EN]"><Y="77"><X="21'
  <CMD="TEXT"><WHEN="([ISEQUAL~{LANGUAGE}~FR]"><Y="77"><X="21'

  <CMD="TEXT"><Y="0"><X="7"><WIDTH="282"><HEIGHT="41"><TEXT="{
  <CMD="TEXT"><Y="38"><X="8"><WIDTH="282"><HEIGHT="26"><TEXT="{
  <CMD="TEXT"><Y="133"><X="9"><WIDTH="73"><HEIGHT="15"><TEXT="{
  <CMD="BARCODE"><Y="125"><X="118"><TYPE="CODE128"><TEXT="{E/
  <CMD="TEXT"><Y="91"><X="78"><WIDTH="82"><HEIGHT="25"><TEXT="{
  <CMD="PRICE"><X="137"><Y="38"><WIDTH="158"><HEIGHT="108"><TE

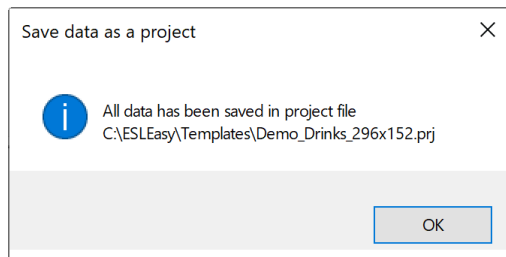
<CMD="FLSF">

```

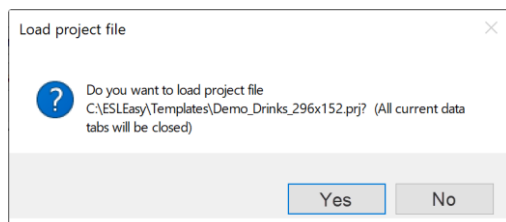
Data: Demo\_Drinks\_296x152.prj ... Load

CSV: Default Save

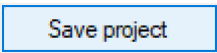
A project file is created for the template.



The next time you load the template, you will be asked whether the project file should be loaded.



With "YES" the data of all file tabs are loaded.

The button  automatically creates a project file (. *TPL*) for the current template name.

### Save / copy template

You should save the changes in the template at regular intervals.

The current template is always stored under the specified name. To copy a template, you can simply save it under a different name.

### ESL label data

Depending on the manufacturer, ESL labels provide different parameters such as battery level, radio quality, serial number, size, resolution, etc. The data of the current (*linked*) ESL label can be accessed in the template, like the normal data.

ESL label parameters always start with `__HS_ parameter name`. With **Ontime** labels, for example, the battery level in percent can be accessed with the parameter `__HS_BATTERY`. This would make it possible, for example, to output a **"Low battery"** symbol additionally on the label if the battery level has fallen below 5%:



A list of available label parameters can be accessed via the button .

After entering a Label ID, the available parameters are added to the list of data.

| Tag                | Value               |
|--------------------|---------------------|
| __HS_APSIGNAL      | 46                  |
| __HS_BARCODE       | 800208852           |
| __HS_BATTERY       | 100                 |
| __HS_BATTERYLEVEL  | 5                   |
| __HS_CHIPSOLUTION  | 2                   |
| __HS_CURRENTSYTIME | 1641384954          |
| __HS_CURRENTTIME   | 12536042            |
| __HS_DESCRIPTION   | ZKC26V-N            |
| __HS_DEVICETYPE    | 1                   |
| __HS_HEIGHT        | 152                 |
| __HS_LASTCOMMUTIME | 2022-01-05 13:15:54 |
| __HS_MAC           | A0A3B8BD9AD0        |
| __HS_MODEL         | ZKC26V-N            |
| __HS_PICNUM        | 7                   |
| __HS_SOFTVERSION   | 2.2.6               |
| __HS_STATE         | 1                   |

The meaning of the values depends on the manufacturer.

## Send current view to a label

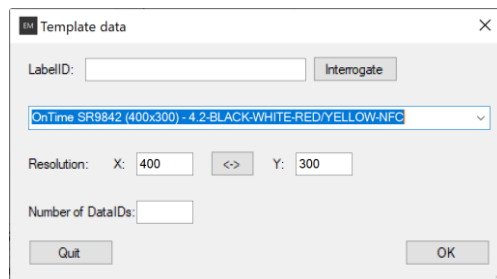
In order to be able to view the display on a label, it is possible to send the current view directly to a label.



Please note that only the current view is sent to the label, possibly pages are not taken into account here (*see command reference*). If **NFC** data is present in the template, it is transferred to the label.

## Create a new template (*Config*)

When you create a new template, ESL-Easy needs information from you for which label type or for which resolution the template should be created. A dialog appears:



You can select a label type from the list, scan a label or input a label id. In this case, the resolution for the label is determined and specified based on the scanned label.

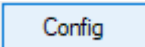
Templates are always created for one resolution (*pixels horizontal / pixels vertical*). If a label is scanned later, only templates that match the resolution of the label are offered for selection (*exception is the override of this default in the app*).

If you link data (*DataID's*) to the template, you can specify the number of Data-ID's required for this template. These are displayed in the command (*see command reference*):

```
.Connected DataID's
<CMD="LINKEDDATAIDS"><COUNT="1">
```

If you create a template that works with a different number of DataID's (*e.g. the layout could adapt dynamically depending on the number of scanned articles*), you can separate several entries with commas. When linking the label, it is then checked whether the number of articles recorded corresponds to one of the details in **LINKEDDATAIDS**:

<CMD="LINKEDDATAIDS"><COUNT="1, 2, 3, 4"> -> **1, 2, 3 or 4 DataID's** must be entered for this template.

The dialog can be called up again at any time via  to make subsequent changes to the template (the *values can also be adjusted directly in the source code*).

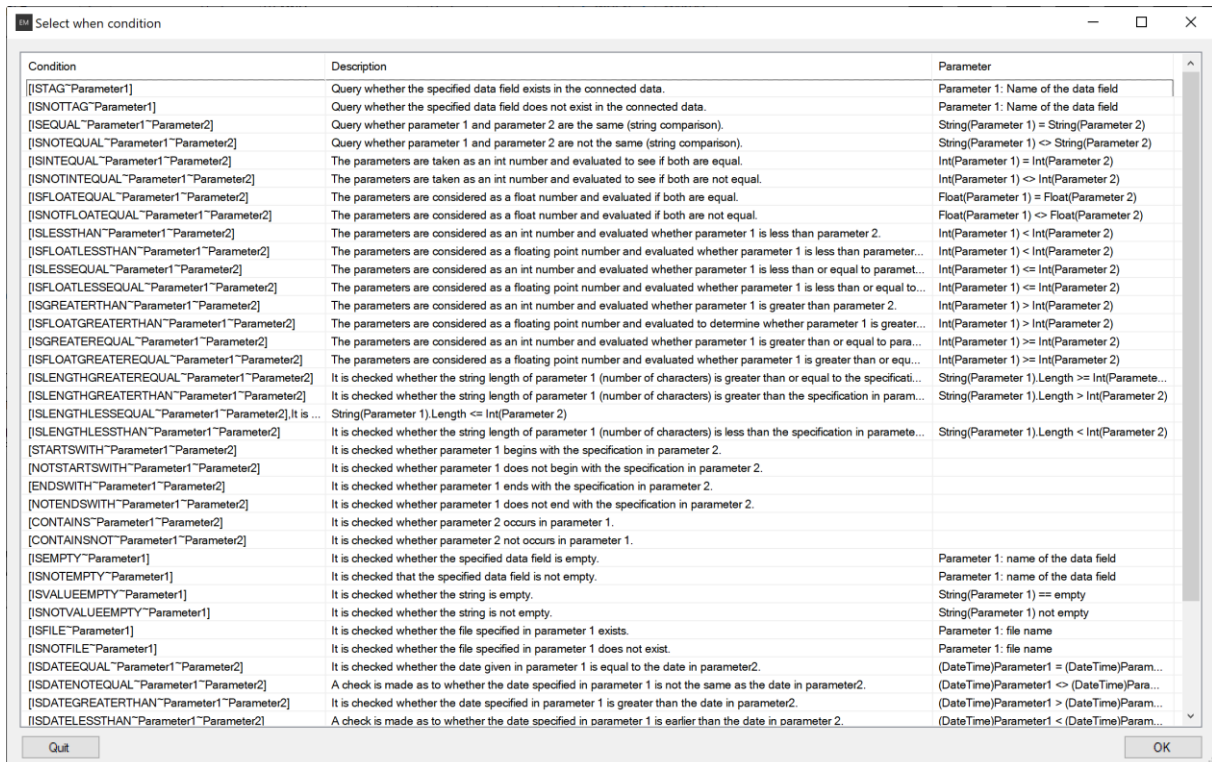
## Undo - Redo

You can undo changes or restore them using the buttons:



## WHEN and MACRO dialog

**WHEN** conditions and **MACROS** can each be inserted into the object via a dialog:



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| Macro                  | Description                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------|
| %%TODAY%%              | Current date in format ddMMyyyy (04.01.2020)                                                       |
| %%TODAYMINUSONE%%      | Current date - 1 day in format dd.MM.yyyy (03.01.2020) (Depending on the culture of the PC)        |
| %%TODAYMINUSTWO%%      | Current date - 2 day2 in format dd.MM.yyyy (02.01.2020) (Depending on the culture of the PC)       |
| %%TODAYMINUSTHREE%%    | Current date - 3 day2 in format dd.MM.yyyy (01.01.2020) (Depending on the culture of the PC)       |
| %%TODAYMINUSFOUR%%     | Current date - 4 day2 in format dd.MM.yyyy (31.12.2019) (Depending on the culture of the PC)       |
| %%TODAYMINUSFIVE%%     | Current date - 5 day2 in format dd.MM.yyyy (30.12.2019) (Depending on the culture of the PC)       |
| %%TODAYPLUSONE%%       | Current date + 1 day in format dd.MM.yyyy (03.01.2020) (Depending on the culture of the PC)        |
| %%TODAYPLUSTWO%%       | Current date + 2 day2 in format dd.MM.yyyy (02.01.2020) (Depending on the culture of the PC)       |
| %%TODAYPLUSTHREE%%     | Current date + 3 day2 in format dd.MM.yyyy (01.01.2020) (Depending on the culture of the PC)       |
| %%TODAYPLUSFOUR%%      | Current date + 4 day2 in format dd.MM.yyyy (31.12.2019) (Depending on the culture of the PC)       |
| %%TODAYPLUSFIVE%%      | Current date + 5 day2 in format dd.MM.yyyy (30.12.2019) (Depending on the culture of the PC)       |
| %%TOMORROW%%           | Tomorrow's date in format dd.MM.yyyy (01.01.2020) (Depending on the culture of the PC)             |
| %%YESTERDAY%%          | Yesterday's date in format dd.MM.yyyy (30.12.2019) (Depending on the culture of the PC)            |
| %%FIRSTDAYOFTHETWEEK%% | First day of the current week in format ddMMyyyy (30.12.2019) (Depending on the culture of the PC) |
| %%WEEK%%               | Calendar week of the current date                                                                  |
| %%DAY%%                | Current day in format dd (04)                                                                      |
| %%MONTH%%              | Current month in format MM (01)                                                                    |
| %%SHORTYEAR%%          | Current year in format yy (20)                                                                     |
| %%LONGYEAR%%           | Current year in format yyyy (2020)                                                                 |
| %%YEAR%%               | Current year in format yyyy (2020)                                                                 |
| %%TIME%%               | Current time in format HH:mm:ss (08:55:25)                                                         |
| %%HOUR%%               | Current hour in format HH (08)                                                                     |
| %%MINUTE%%             | Current minute in format mm (56)                                                                   |
| %%SECOND%%             | Current second in format ss (31)                                                                   |
| %%IPADDRESS%%          | Current IP-Adress                                                                                  |
| %%IPADDRESSES%%        | List of all current IP addresses comma separated as one text                                       |
| %%APPPATH%%            | Current program path of the application                                                            |
| %%HOSTNAME%%           | Host name of the PC                                                                                |
| %%VERSION%%            | Program version of the application                                                                 |
| %%TOOLVERSION%%        | Program version of the tools lib                                                                   |

## Help

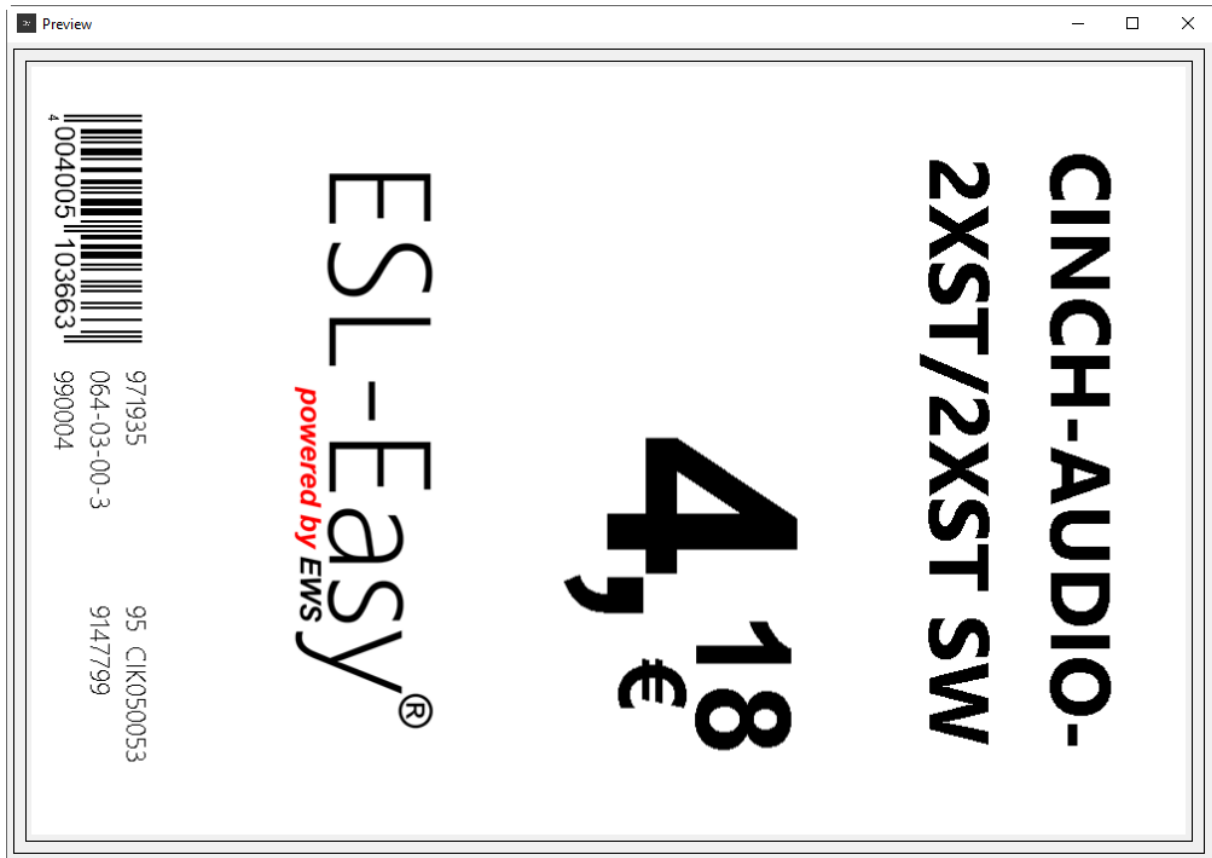
With "?" you will receive a short help.

| Help for the Template Editor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Formatting information for text output</p> <p>-----</p> <p>{data field} - Returns the content of the data field<br/>Example: {NAME}</p> <p>Multiple data fields can be included in the TEXT specification and mixed with normal text.<br/>Example: &lt;TEXT="Item: {ARTNR} {DESCRIPTION}"&gt;</p> <p>{@array number formatting division factor Decimal separator} (pipe between data field and number formatting)<br/>Number formatting specifications: 0.00 - Returns a number with at least one digit before the decimal point and two digits after the decimal point. The number is rounded.<br/>Division Factor: 10 - Optional. If specified, the value in the data field will be divided before formatting<br/>Decimal separator: . - Optional. If specified, converts the current system decimal separator to the specified character</p> <p>Examples:</p> <p>Data field = 1.2 - {@Data field 0.00} -&gt; 1,20<br/>Data field = .17 - {@Data field 0.00} -&gt; 0,17<br/>Data field = 17.321 - {@Data field 0.00} -&gt; 17,32<br/>Data field = 17.328 - {@Data field 0.00} -&gt; 17,33<br/>Data field = 17.328 - {@Data field 0.00 .} -&gt; 17.33</p> <p>Digits with a 0 are always output. If a # is used instead of a 0, this position is only output if it is contained in the number.</p> <p>Examples:</p> <p>Data field = 0.23 - {@Data field 0.##} -&gt; 0,23<br/>Data field = 1.234 - {@Data field 0.##} -&gt; 1.23</p> |

## Preview

Templates are always edited in the format (*portrait/landscape*) as they are to be displayed later on the labels. If a template is created for a label that later has an upright format, the graphical representation of the label must be send rotated to the label (*the label itself remains physically in landscape format*). To check this, you can preview it:

Preview



## Refresh display

With the button 

Preview

 the display of the template can be updated, if this is not done automatically by the program.

## Command reference

In the following, all commands, that can be used to create a template, are described.

### CANVAS

Specifies the resolution of the template in pixels for **height** and **width**. For electronic labels, these values must match the physical values of the labels. On the mobile **PDA** device, only suitable templates are offered that match the resolution of the addressed label (*exception, if "All" is explicitly selected*). If, for example, a template is created for portrait display, but the label itself is designed for landscape format, the image must later be sent to the label in rotated form (see **ROTATE**).

| <i>Parameter</i> | <i>Explanation</i>                                                                                                                        |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WIDTH</b>     | Width in pixel                                                                                                                            |
| <b>HEIGHT</b>    | Height in pixel                                                                                                                           |
| <b>ROTATE</b>    | Specified in <b>degrees</b> if the output should be rotated during transmission to the label. valid values are <b>0, 90, 180, and 270</b> |

Example:

```
<CMD="CANVAS"><WIDTH="640"><HEIGHT="960"><ROTATE="90">
```

These values are also set via the **Config** dialog.

### BACKGROUNDCOLOR

Specifies the background color. For electronic labels, please note that only background colors that are supported by the label (*such as red*) are used. The default is **WHITE**.

| <i>Parameter</i> | <i>Explanation</i>                                                                                                                                                                                                        |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>COLOR</b>     | Width in pixel                                                                                                                                                                                                            |
| <b>HEIGHT</b>    | Height in pixel                                                                                                                                                                                                           |
| <b>COLOR</b>     | Color specification as a constant:<br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b><br><b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br><br>e.g. 255,0,0 |

Example:

```
<CMD="BACKGROUNDCOLOR"><COLOR="WHITE">
```

### QUALITY

Specifies the output quality. For ESL labels, "ESL" must be selected because the labels do not support color gradations and thus the result would lead to unsatisfactory results for the other constants.

| <i>Parameter</i> | <i>Explanation</i>                                                                        |
|------------------|-------------------------------------------------------------------------------------------|
| <b>MODE</b>      | <b>DEFAULT</b> – Default setting of the operating system ( <i>cannot be recommended</i> ) |

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|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>ANTIALIAS</b> – Margins are blurred<br><b>HIGHQUALITY</b> – The output quality is set to high. this takes more time to calculate the graphical output<br><b>HIGHSPEED</b> – The output quality is set to low. this reduces the time it takes to calculate the graphical output<br><b>NONE</b> – No quality adjustment is made<br><b>ESL</b> – The setting for <b>ESL labels</b> . Since these labels have an ePaper display that does not support color gradations, the calculation is done at pixel level without anti-aliasing. |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Example:

&lt;CMD="QUALITY"&gt;&lt;MODE="ESL"&gt;

**TEXTQUALITY**

Specifies the output quality for text. For ESL labels, "ESL" must be selected because the labels do not support color gradations and thus the result would lead to unsatisfactory results for the other constants.

| Parameter   | Explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MODE</b> | <b>DEFAULT</b> – Default setting of the operating system ( <i>cannot be recommended</i> )<br><b>ANTIALIAS</b> – Margins are blurred<br><b>ANTIALIASGRIDFIT</b> – Edges are drawn softly based on pixel specifications<br><b>CLEARTYPEGRIDFIT</b> – Output as ClearType font with anti-aliasing<br><b>SINGLEBITPERPIXEL</b> – Special calculation mode<br><b>SINGLEBITPERPIXEGRIDFITL</b> – Special calculation mode based on pixel specifications<br><b>ESL</b> – The setting for <b>ESL labels</b> . Since these labels have an ePaper display that does not support color gradations, the calculation is done at pixel level without anti-aliasing. |

Example:

&lt;CMD="TEXTQUALITY"&gt;&lt;MODE="ESL"&gt;

**LINKEDDATAIDS**

Specifies the number of DataID's linked in this template (*e.g. articles*). This value is checked when linking a label with one or more DataID's (were 2 DataID's also *retrieved for the link for a template with 2 DataID's?*). If this specification is omitted, no check is carried out when linking a DataID with a label (*e.g. even if no DataID is used in a template*). If different numbers of DataID's are allowed in a template, several values can be specified separated by commas.

| Parameter    | Explanation                                                                                                        |
|--------------|--------------------------------------------------------------------------------------------------------------------|
| <b>COUNT</b> | Number of DataID's required for this template ( <i>e.g. articles</i> ). multiple values can be separated by commas |

Examples:

&lt;CMD="LINKEDDATAIDS"&gt;&lt;COUNT="1"&gt;

&lt;CMD="LINKEDDATAIDS"&gt;&lt;COUNT="1, 2, 3, 4"&gt;

## OFFSET

This command shifts the zero point for all subsequent objects by the specified **X/Y** values. The following objects are thus drawn to the specified position (*XY specification in the command*) plus the **OFFSET** specification.

This makes it extremely easy to display multiple blocks of objects on a label (*e.g. multiple articles*) without having to adjust the **X/Y** coordinates for each object in each block. The source code lines can be easily copied. The additional **OFFSET** command in front of the copied lines then shifts the coordinates for the display.

| Parameter | Erklärung                                                                                |
|-----------|------------------------------------------------------------------------------------------|
| <b>X</b>  | Specify, in pixels, the value by which each x-value of the following commands is moved.  |
| <b>Y</b>  | Specify, in pixels, the value by which each y-value of the following commands is shifted |

Examples:

```
<CMD="OFFSET"><X="250">
<CMD="OFFSET"><Y="150">
<CMD="OFFSET"><Y="-75">
<CMD="OFFSET"><X="250"><Y="150">
```

## LAYER

This command sets the level of all the following data fields without having to adjust this in each object (*it is no longer necessary to specify **\_X** for a data field*).

If source code lines are copied, a different data field level (*e.g. the second article*) can be accessed for the new rows without having to adjust this in the copied source code rows.

| Parameter    | Erklärung                                                                                                   |
|--------------|-------------------------------------------------------------------------------------------------------------|
| <b>LABEL</b> | Specify the access level for the following data fields ( <i><b>_X</b> appended to the data field name</i> ) |

Examples:

```
<CMD="LAYER"><LEVEL="2"> -> {DESCRIPTION} becomes {DESCRIPTION_2}

<CMD="LAYER"><LEVEL="1"> -> The specification in the source code is used again (reset)
```

## TEXT

Output of text. It is a very complex object that allows a lot of formatting.

| Parameter | Explanation         |
|-----------|---------------------|
| <b>X</b>  | Horizontal position |
| <b>Y</b>  | Vertical position   |

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|                                      |                                                                                                                                                                                                                                                             |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WIDTH</b>                         | Maximum width of text ( <i>bounding box</i> )                                                                                                                                                                                                               |
| <b>HEIGHT</b>                        | Maximum height of text ( <i>bounding box</i> )                                                                                                                                                                                                              |
| <b>COLOR</b>                         | <p>Color of the text as a constant:</p> <p><b>BLACK</b><br/> <b>BLUE</b><br/> <b>GREEN</b><br/> <b>CYAN</b><br/> <b>RED</b><br/> <b>MAGENTA</b><br/> <b>YELLOW</b><br/> <b>WHITE</b></p> <p>or as RGB value <b>R,G,B</b></p> <p>e.g. 255,0,0</p>            |
| <b>BGCOLOR</b>                       | <p>Background color of the text as a constant:</p> <p><b>BLACK</b><br/> <b>BLUE</b><br/> <b>GREEN</b><br/> <b>CYAN</b><br/> <b>RED</b><br/> <b>MAGENTA</b><br/> <b>YELLOW</b><br/> <b>WHITE</b></p> <p>or as RGB value <b>R,G,B</b></p> <p>e.g. 255,0,0</p> |
| <b>TEXT</b>                          | <p>Text to output</p> <p>A ~ character is translated into a line break</p> <p>Within the text, data fields of the linked data can be accessed with {<i>data field</i>} (<i>alternatively with [DATAVALUE~data field]</i>)</p>                               |
| <b>FILE</b>                          | The text is loaded from the specified file                                                                                                                                                                                                                  |
| <b>LTRIM</b>                         | Leading spaces are truncated                                                                                                                                                                                                                                |
| <b>MAXLENGTH</b>                     | Maximum number of characters to output. If the text is longer, it is truncated and "... " or <b>MAXLENGTHTEXT</b> is attached                                                                                                                               |
| <b>MAXLENGTHTEXT</b>                 | The text that is appended to the text when the maximum text length <b>MAXLENGTH</b> is exceeded ( <i>Default "... "</i> )                                                                                                                                   |
| <b>LEFTLENGTH</b><br><b>LEFTTEXT</b> | Only the specified number of letters is output from the left of the text                                                                                                                                                                                    |
| <b>RIGHTLENGTH</b>                   | Only the specified number of letters is output from the right of the text                                                                                                                                                                                   |

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|                    |                                                                                                                                                                                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SUBSTRING</b>   | Only part of the text is output. The start position and the number of characters from the start position must be separated by commas, e.g. <b>&lt;SUBSTRING="3.5"&gt;</b> for the output of five characters starting after the third position |
| <b>ANGEL</b>       | Rotation angle of the text                                                                                                                                                                                                                    |
| <b>FONT</b>        | Name of the font ( <i>installed fonts</i> )                                                                                                                                                                                                   |
| <b>FONTSIZE</b>    | Font size of the text                                                                                                                                                                                                                         |
| <b>BOLD</b>        | Bold                                                                                                                                                                                                                                          |
| <b>ITALIC</b>      | Italic                                                                                                                                                                                                                                        |
| <b>REGULAR</b>     | Standard                                                                                                                                                                                                                                      |
| <b>STRIKEOUT</b>   | Strikeout                                                                                                                                                                                                                                     |
| <b>UNDERLINE</b>   | Underline                                                                                                                                                                                                                                     |
| <b>DATEFORMAT</b>  | Specify the date format to use. Without this specification, the default date format is used ( <i>see Macros</i> )                                                                                                                             |
| <b>TIMEFORMAT</b>  | Specify the time format to use. Without this specification, the default time format is used ( <i>see Macros</i> )                                                                                                                             |
| <b>CENTER</b>      | Centers the text in the specified range horizontally centered                                                                                                                                                                                 |
| <b>RIGHT</b>       | Right-aligns the text in the specified range.                                                                                                                                                                                                 |
| <b>WORDWRAP</b>    | Automatically wraps words in the specified range.                                                                                                                                                                                             |
| <b>AUTOSIZE</b>    | Automatically adjusts the font size to fit the specified range ( <i>see MINFONTSIZE, MAXFONTSIZE</i> )                                                                                                                                        |
| <b>MINFONTSIZE</b> | If <b>AUTOSIZE</b> is set, the font size is not scaled smaller than the specified font size. Text that no longer fits within the default frame is truncated                                                                                   |
| <b>MAXFONTSIZE</b> | If <b>AUTOSIZE</b> is set, the font size is not scaled larger than the specified font size                                                                                                                                                    |
| <b>POSITION</b>    | Positions the text within the specified frame from X,Y view<br><b>UPPERLEFT</b><br><b>UPPERCENTER</b><br><b>UPPERRIGHT</b><br><b>CENTERLEFT</b><br><b>CENTERCENTER</b><br><b>CENTERRIGHT</b><br><b>LOWERLEFT</b>                              |

|  |                                         |
|--|-----------------------------------------|
|  | <b>LOWERCENTER</b><br><b>LOWERRIGHT</b> |
|--|-----------------------------------------|

Example:

```
<CMD="TEXT"><Y="36"><X="0"><WIDTH="640"><HEIGHT="100"><TEXT="{ARTIKE
LBEZEICHNUNG 1}"><COLOR="BLACK"><FONT="Segoe
UI"><FONTSIZE="40"><BOLD="FALSE"><CENTER>
```

## FONT

Creates a font that can be used for further commands. This is only valid until another font specification overwrites it. Usually not needed because the font is specified with every command.

| <i>Parameter</i> | <i>Explanation</i>                          |
|------------------|---------------------------------------------|
| <b>NAME</b>      | Name of the font ( <i>installed fonts</i> ) |
| <b>BOLD</b>      | Bold                                        |
| <b>ITALIC</b>    | Italic                                      |
| <b>REGULAR</b>   | Standard                                    |
| <b>STRIKEOUT</b> | Strikeout                                   |
| <b>UNDERLINE</b> | Underline                                   |

Example:

```
<CMD="FONT"><NAME="Arial"><BOLD>
```

## IMAGE

Outputs a graphic. **PNG, JPG, BMP, GIF, TIF, TIFF** and **WMF** files are supported.

| <i>Parameter</i>      | <i>Explanation</i>                                                 |
|-----------------------|--------------------------------------------------------------------|
| <b>X</b>              | Horizontal position                                                |
| <b>Y</b>              | Vertical position                                                  |
| <b>WIDTH</b>          | Width of the graphic                                               |
| <b>HEIGHT</b>         | Height of the graphic                                              |
| <b>WIDTHMAX</b>       | Sets the width of the graphic to the label size                    |
| <b>HEIGHTMAX</b>      | Sets the height of the graphic to the label size                   |
| <b>BASE64</b>         | Image in <b>BASE64</b> format                                      |
| <b>FILE</b>           | Image from a file                                                  |
| <b>NOTTRANSPARENT</b> | Does not render the graphic transparent ( <i>e.g. a PNG file</i> ) |

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|                          |                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>GREYSCALE</b>         | Converts a graphic to b/w                                                                                                |
| <b>ROTATE</b>            | Rotates a graphic at the specified angle                                                                                 |
| <b>STRETCH</b>           | Scales the graphic to the specified range                                                                                |
| <b>CENTER</b>            | Centers the graphic within the specified range                                                                           |
| <b>TOP</b>               | Prints the graphic at the top of the specified range                                                                     |
| <b>BOTTOM</b>            | Prints the graphic at the bottom of the specified range                                                                  |
| <b>RIGHT</b>             | Prints the graphic at the right edge of the specified range                                                              |
| <b>LEFT</b>              | Prints the graphic at the left edge of the specified range                                                               |
| <b>INVERT</b>            | Inverts a graphic                                                                                                        |
| <b>INVERTBW</b>          | Inverts only the black and white portion in a graphic and leaves the color components ( <i>such as red</i> ) unchanged   |
| <b>INVERTBWTOLERANCE</b> | Specifies a value between 0 and 255 that is interpreted as black or white other than pure black (0) and pure white (255) |

Example:

```
<CMD="IMAGE"><Y="215"><X="170"><HEIGHT="38"><WIDTH="150"><FILE="ESL-
Easy.PNG">
```

A formatting file with the same name as the graphic file and the extension **“.fmt”** can be created for each graphic file. If such a file is available, the following formatting information is read from the **FMT** file and overwrites the information in the template.

| <i>Parameter</i>      | <i>Explanation</i>                                                 |
|-----------------------|--------------------------------------------------------------------|
| <b>X</b>              | Horizontal position                                                |
| <b>Y</b>              | Vertical position                                                  |
| <b>WIDTH</b>          | Width of the graphic                                               |
| <b>HEIGHT</b>         | Height of the graphic                                              |
| <b>WIDTHMAX</b>       | Sets the width of the graphic to the label width                   |
| <b>HEIGHTMAX</b>      | Sets the height of the graphic to the label size                   |
| <b>STRETCH</b>        | Scales the graphic to the specified range                          |
| <b>NOTTRANSPARENT</b> | Does not render the graphic transparent ( <i>e.g. a PNG file</i> ) |
| <b>CENTER</b>         | Centers the graphic within the specified range                     |

|               |                                                             |
|---------------|-------------------------------------------------------------|
| <b>TOP</b>    | Prints the graphic at the top of the specified range        |
| <b>BOTTOM</b> | Prints the graphic at the bottom of the specified range     |
| <b>RIGHT</b>  | Prints the graphic at the right edge of the specified range |
| <b>LEFT</b>   | Prints the graphic at the left edge of the specified range  |

## RECTANGLE

Draws a rectangle.

| <i>Parameter</i> | <i>Explanation</i>                                                                                                                                                                                                                       |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b>         | Horizontal position                                                                                                                                                                                                                      |
| <b>Y</b>         | Vertical position                                                                                                                                                                                                                        |
| <b>WIDTH</b>     | Width of rectangle                                                                                                                                                                                                                       |
| <b>HEIGHT</b>    | Height of rectangle                                                                                                                                                                                                                      |
| <b>COLOR</b>     | Color of the frame as a constant:<br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b><br><b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br>e.g. 255,0,0                     |
| <b>THICKNESS</b> | Frame thickness in pixel<br><br>If this is omitted, no frame is drawn.                                                                                                                                                                   |
| <b>STYLE</b>     | The type of frame according to the following constants<br><b>DASH</b> – Dashed line<br><b>DASHDOT</b> – Point – dash – line<br><b>DASHDOTDOT</b> – Point – Point – Dash – Line<br><b>DOT</b> – Line of dots<br><b>SOLID</b> – Solid line |
| <b>BGCOLOR</b>   | Color of the rectangle fill as a constant:<br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b>                                                                                                                                 |

|              |                                                                                                                                                            |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <b>RED</b><br><b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br><br>e.g. 255,0,0<br><br>If omitted, no fill is drawn. |
| <b>EDGE</b>  | Degree of rounding of the <i>corners</i> ( <i>meaningful values between 1 and 15</i> )                                                                     |
| <b>ANGEL</b> | Angle of rotation                                                                                                                                          |

Example:

```
<CMD="RECTANGLE"><Y="127"><X="74"><WIDTH="100"><HEIGHT="100"><COLOR="BLACK"><THICKNESS="1"><STYLE="SOLID"><BGCOLOR="WHITE">
```

## LINE

Draws a line. Lines can be assigned different shapes at the ends, such as an arrowhead (see **STARTCAP**, **ENDCAP**).

| <i>Parameter</i> | <i>Explanation</i>                                                                                                                                                                                                       |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b>         | Horizontal start position                                                                                                                                                                                                |
| <b>Y</b>         | Vertical starting position                                                                                                                                                                                               |
| <b>TOX</b>       | Horizontal end position                                                                                                                                                                                                  |
| <b>TOY</b>       | Vertical end position                                                                                                                                                                                                    |
| <b>COLOR</b>     | Color of the frame as a constant:<br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b><br><b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br><br>e.g. 255,0,0 |
| <b>THICKNESS</b> | Line width in pixel                                                                                                                                                                                                      |
| <b>STYLE</b>     | The type of frame according to the following constants:<br><b>DASH</b> – Dashed line<br><b>DASHDOT</b> – Point – dash – line                                                                                             |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <b>DASHDOTDOT</b> – Point – Point – Dash – Line<br><b>DOT</b> – Line of dots<br><b>SOLID</b> – Solid line                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>STARTCAP</b> | Specifies the type of line start:<br><b>ARROWANCHOR</b> - Specifies an arrow-shaped anchor end<br><b>DIAMONDANCHOR</b> - Specifies a diamond-shaped anchor end<br><b>FLAT</b> - Specifies a flattened line end<br><b>NOANCHOR</b> - Indicates that no anchor is used<br><b>ROUND</b> - Specifies a round line end<br><b>ROUNDANCHOR</b> - Specifies a round anchor end<br><b>SQUARE</b> - Specifies a square line end<br><b>SQUAREANCHOR</b> - Specifies a square anchor line end<br><b>TRIANGLE</b> - Specifies a triangular line end                                    |
| <b>ENDCAP</b>   | Legt die Art des Linienbeginns fest:<br><b>ARROWANCHOR</b> - Gibt ein pfeilförmiges Ankerende an<br><b>DIAMONDANCHOR</b> - Gibt ein rautenförmiges Ankerende an<br><b>FLAT</b> - Gibt ein abgeflachtes Linienende an<br><b>NOANCHOR</b> - Gibt an, dass kein Anker verwendet wird<br><b>ROUND</b> - Gibt ein rundes Linienende an<br><b>ROUNDANCHOR</b> - Gibt ein rundes Ankerende an<br><b>SQUARE</b> - Gibt ein quadratisches Linienende an<br><b>SQUAREANCHOR</b> - Gibt ein quadratisches Ankerlinienende an<br><b>TRIANGLE</b> - Gibt ein dreieckiges Linienende an |

Example:

```
<CMD="LINE"><Y="230"><X="232"><TOX="50"><TOY="50"><COLOR="BLACK"><WIDTH="50"><THICKNESS="1"><STYLE="SOLID">
```

## ELLIPSE

Draws an ellipse or circle (*at the same height, width*).

| <i>Parameter</i> | <i>Explanation</i>                                                                                                              |
|------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b>         | Horizontal position                                                                                                             |
| <b>Y</b>         | Vertical position                                                                                                               |
| <b>WIDTH</b>     | Ellipse width                                                                                                                   |
| <b>HEIGHT</b>    | Ellipse height                                                                                                                  |
| <b>COLOR</b>     | Color of the frame as a constant:<br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b><br><b>MAGENTA</b> |

|                  |                                                                                                                                                                                                                                                                                |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | <b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br><br>e.g. 255,0,0                                                                                                                                                                                          |
| <b>THICKNESS</b> | Frame thickness in pixel<br><br>If this is omitted, no frame is drawn.                                                                                                                                                                                                         |
| <b>STYLE</b>     | The type of frame according to the following constants:<br><b>DASH</b> – Dashed line<br><b>DASHDOT</b> – Point – dash – line<br><b>DASHDOTDOT</b> – Point – Point – Dash – Line<br><b>DOT</b> – Line of dots<br><b>SOLID</b> – Solid line                                      |
| <b>BGCOLOR</b>   | Color of the filling of the ellipse as a constant:<br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b><br><b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br><br>e.g. 255,0,0<br><br>If omitted, no fill is drawn. |
| <b>ANGEL</b>     | Angle of rotation                                                                                                                                                                                                                                                              |

Example:

```
<CMD="ELLIPSE"><Y="260"><X="316"><WIDTH="110"><HEIGHT="67"><COLOR="BLACK"><STYLE="SOLID"><THICKNESS="2">
```

## POLYGON

Draws a polygon from a number of specified points. The height and width of the polygon results from the specified points, so **WIDTH** and **HEIGHT** do not exist.

| <i>Parameter</i> | <i>Explanation</i>  |
|------------------|---------------------|
| <b>X</b>         | Horizontal position |
| <b>Y</b>         | Vertical position   |

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|                  |                                                                                                                                                                                                                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>COLOR</b>     | <p>Color of the frame as a constant:</p> <p><b>BLACK</b><br/> <b>BLUE</b><br/> <b>GREEN</b><br/> <b>CYAN</b><br/> <b>RED</b><br/> <b>MAGENTA</b><br/> <b>YELLOW</b><br/> <b>WHITE</b></p> <p>or as RGB value <b>R,G,B</b></p> <p>e.g. 255,0,0</p>                                                       |
| <b>THICKNESS</b> | <p>Frame thickness in pixel</p> <p>If this is omitted, no frame is drawn.</p>                                                                                                                                                                                                                           |
| <b>STYLE</b>     | <p>The type of frame according to the following constants:</p> <p><b>DASH</b> – Dashed line<br/> <b>DASHDOT</b> – Point – dash – line<br/> <b>DASHDOTDOT</b> – Point – Point – Dash – Line<br/> <b>DOT</b> – Line of dots<br/> <b>SOLID</b> – Solid line</p>                                            |
| <b>BGCOLOR</b>   | <p>Color of the filling of the ellipse as a constant:</p> <p><b>BLACK</b><br/> <b>BLUE</b><br/> <b>GREEN</b><br/> <b>CYAN</b><br/> <b>RED</b><br/> <b>MAGENTA</b><br/> <b>YELLOW</b><br/> <b>WHITE</b></p> <p>or as RGB value <b>R,G,B</b></p> <p>e.g. 255,0,0</p> <p>If omitted, no fill is drawn.</p> |
| <b>POINTS</b>    | <p>Specification of pixel coordinates in the format <b>X,Y;X,Y;...</b></p> <p>Example: 25,0;75,0;100,40;75,80;25,80;0,40</p>                                                                                                                                                                            |
| <b>ANGEL</b>     | <p>Angle of rotation</p>                                                                                                                                                                                                                                                                                |

Example:

```
<CMD="POLYGON"><Y="0"><X="0"><POINTS="25,0;75,0;100,40;75,80;25,80;0,40"><COLOR="BLACK"><STYLE="SOLID"><THICKNESS="2">
```

**PIE**

Draws a piece of a pie chart. A complete pie chart can be drawn from a combination of multiple **PIE** commands.

| <i><b>Parameter</b></i> | <i><b>Explanation</b></i>                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b>                | Horizontal position                                                                                                                                                                                                                                          |
| <b>Y</b>                | Vertical position                                                                                                                                                                                                                                            |
| <b>WIDTH</b>            | Width                                                                                                                                                                                                                                                        |
| <b>HEIGHT</b>           | Height                                                                                                                                                                                                                                                       |
| <b>COLOR</b>            | <p>Color of the frame as a constant:<br/> <b>BLACK</b><br/> <b>BLUE</b><br/> <b>GREEN</b><br/> <b>CYAN</b><br/> <b>RED</b><br/> <b>MAGENTA</b><br/> <b>YELLOW</b><br/> <b>WHITE</b></p> <p>or as RGB value <b>R,G,B</b><br/> e.g. 255,0,0</p>                |
| <b>THICKNESS</b>        | <p>Frame thickness in points</p> <p>If this is omitted, no frame is drawn.</p>                                                                                                                                                                               |
| <b>STYLE</b>            | <p>The type of frame according to the following constants:</p> <p><b>DASH</b> – Dashed line<br/> <b>DASHDOT</b> – Point – dash – line<br/> <b>DASHDOTDOT</b> – Point – Point – Dash – Line<br/> <b>DOT</b> – Line of dots<br/> <b>SOLID</b> – Solid line</p> |
| <b>BGCOLOR</b>          | <p>Color of the filling of the ellipse as a constant:<br/> <b>BLACK</b><br/> <b>BLUE</b><br/> <b>GREEN</b><br/> <b>CYAN</b><br/> <b>RED</b><br/> <b>MAGENTA</b><br/> <b>YELLOW</b><br/> <b>WHITE</b></p> <p>or as RGB value <b>R,G,B</b></p>                 |

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|                   |                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------|
|                   | e.g. 255,0,0<br><br>If omitted, no fill is drawn.                                                                     |
| <b>STARTANGLE</b> | Start angle between <b>X</b> and the <b>first side</b> of the pie chart measured clockwise angle in <b>degrees</b>    |
| <b>SWEEPANGLE</b> | Clockwise angle measured between the <b>start angle</b> and the <b>second page</b> of the pie chart in <b>degrees</b> |

Example:

```
<CMD="PIE"><Y="0"><X="0"><WIDTH="100"><HEIGHT="100"><STARTANGLE="0">
<SWEEPANGLE="120"><COLOR="BLACK"><BGCOLOR="RED">
```

**ARC**

Draws an arc that represents part of an ellipse.

| <i>Parameter</i> | <i>Explanation</i>                                                                                                                                                                                                                        |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b>         | Horizontal position                                                                                                                                                                                                                       |
| <b>Y</b>         | Vertical position                                                                                                                                                                                                                         |
| <b>WIDTH</b>     | Width                                                                                                                                                                                                                                     |
| <b>HEIGHT</b>    | Height                                                                                                                                                                                                                                    |
| <b>COLOR</b>     | Color of the frame as a constant:<br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b><br><b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br><br>e.g. 255,0,0                  |
| <b>THICKNESS</b> | Frame thickness in pixel<br><br>If this is omitted, no frame is drawn.                                                                                                                                                                    |
| <b>STYLE</b>     | The type of frame according to the following constants:<br><b>DASH</b> – Dashed line<br><b>DASHDOT</b> – Point – dash – line<br><b>DASHDOTDOT</b> – Point – Point – Dash – Line<br><b>DOT</b> – Line of dots<br><b>SOLID</b> – Solid line |

|                   |                                                                                                                                                                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BGCOLOR</b>    | <p>Color of the filling of the ellipse as a constant:</p> <p><b>BLACK</b><br/><b>BLUE</b><br/><b>GREEN</b><br/><b>CYAN</b><br/><b>RED</b><br/><b>MAGENTA</b><br/><b>YELLOW</b><br/><b>WHITE</b></p> <p>or as RGB value <b>R,G,B</b></p> <p>e.g. 255,0,0</p> <p>If omitted, no fill is drawn.</p> |
| <b>STARTANGLE</b> | Start angle between <b>X</b> and the <b>starting point</b> of the arc Clockwise angle measured in <b>degrees</b>                                                                                                                                                                                 |
| <b>SWEEPANGLE</b> | Clockwise angle measured between the <b>starting angle</b> and the <b>end point</b> of the arc, in <b>degrees</b>                                                                                                                                                                                |

Example:

```
<CMD="ARC"><Y="0"><X="0"><WIDTH="100"><HEIGHT="100"><STARTANGLE="0">
<SWEEPANGLE="150"><COLOR="BLACK">
```

## BARGRAPH

Draws a bar of a bar chart. The fill of the bar can be specified as a percentage.

| <i>Parameter</i> | <i>Explanation</i>                                                                                                                                                                                                     |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b>         | Horizontal position                                                                                                                                                                                                    |
| <b>Y</b>         | Vertical position                                                                                                                                                                                                      |
| <b>WIDTH</b>     | Width                                                                                                                                                                                                                  |
| <b>HEIGHT</b>    | Height                                                                                                                                                                                                                 |
| <b>COLOR</b>     | <p>Color of the frame as a constant:</p> <p><b>BLACK</b><br/><b>BLUE</b><br/><b>GREEN</b><br/><b>CYAN</b><br/><b>RED</b><br/><b>MAGENTA</b><br/><b>YELLOW</b><br/><b>WHITE</b></p> <p>or as RGB value <b>R,G,B</b></p> |

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|                    |                                                                                                                                                                                                                                                                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | e.g. 255,0,0                                                                                                                                                                                                                                                                                                                                                 |
| <b>THICKNESS</b>   | Frame thickness in pixel<br><br>If this is omitted, no frame is drawn.                                                                                                                                                                                                                                                                                       |
| <b>STYLE</b>       | The type of frame according to the following constants:<br><b>DASH</b> – Dashed line<br><b>DASHDOT</b> – Point – dash – line<br><b>DASHDOTDOT</b> – Point – Point – Dash – Line<br><b>DOT</b> – Line of dots<br><b>SOLID</b> – Solid line                                                                                                                    |
| <b>BGCOLOR</b>     | Color of the filling of the ellipse as a constant:<br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b><br><b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br><br>e.g. 255,0,0<br><br>If omitted, no fill is drawn.                                                                               |
| <b>PERCENT</b>     | Percentage of the filling degree of the bar. This can be used, for example, to display a value as a percentage of a processing state.                                                                                                                                                                                                                        |
| <b>BARPOSITION</b> | Character direction of the fill degree from <b>PERCENT</b> :<br><b>LEFT</b> -> From left to right<br><b>UPPER</b> -> From top to bottom<br><b>RIGHT</b> -> From right to left<br><b>LOWER</b> -> From bottom to top ( <i>Default</i> )                                                                                                                       |
| <b>BARSTYLE</b>    | The type of filling according to the following constants:<br><b>BACKWARDDIAGONAL</b><br><b>CROSS</b><br><b>DARKDOWNWARDDIAGONAL</b><br><b>DARKHORIZONTAL</b><br><b>DARKUPWARDDIAGONAL</b><br><b>DARKVERTICAL</b><br><b>DASHEDDOWNWARDDIAGONAL</b><br><b>DASHEDHORIZONTAL</b><br><b>DASHEDUPWARDDIAGONAL</b><br><b>DASHEDVERTICAL</b><br><b>DIAGONALBRICK</b> |

DIAGONALCROSS  
DIVOT  
DOTTEDIAMOND  
DOTTEDGRID  
FORWARDDIAGONAL  
HORIZONTAL  
HORIZONTALBRICK  
LARGECHECKERBOARD  
LARGECONFETTI  
LARGEGRID  
LIGHTDOWNWARDDIAGONAL  
LIGHTHORIZONTAL  
LIGHTUPWARDDIAGONAL  
LIGHTVERTICAL  
MAX  
MIN  
NARROWHORIZONTAL  
NARROWVERTICAL  
OUTLINEDDIAMOND  
PERCENT05  
PERCENT10  
PERCENT20  
PERCENT25  
PERCENT30  
PERCENT40  
PERCENT50  
PERCENT60  
PERCENT70  
PERCENT75  
PERCENT80  
PERCENT90  
PLAID  
SHINGLE  
SMALLCHECKERBOARD  
SMALLCONFETTI  
SMALLGRID  
SOLIDIAMOND  
SPHERE  
TRELLIS  
VERTICAL  
WAVE  
WEAVE  
WIDEDOWNWARDDIAGONAL  
WIDEUPWARDDIAGONAL  
ZIGZAG

Example:

<CMD="BARGRAPH"><Y="10"><X="10"><WIDTH="20"><HEIGHT="100"><COLOR="BL

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ACK"><BARCOLOR="RED"><PERCENT="20"><THICKNESS="1"><BARPOSITION="LOWE  
R">

**BARCODE**

Draws a barcode.

| <i>Parameter</i> | <i>Explanation</i>                                                                                                                                                                                                                              |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b>         | Horizontal position                                                                                                                                                                                                                             |
| <b>Y</b>         | Vertical position                                                                                                                                                                                                                               |
| <b>WIDTH</b>     | Width                                                                                                                                                                                                                                           |
| <b>HEIGHT</b>    | Height                                                                                                                                                                                                                                          |
| <b>TEXT</b>      | Barcode data                                                                                                                                                                                                                                    |
| <b>FORECOLOR</b> | Foreground color ( <i>barcode lines</i> ) as a constant:<br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b><br><b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br><br>e.g. 255,0,0 |
| <b>BACKCOLOR</b> | Background color as constant:<br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b><br><b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br><br>e.g. 255,0,0                            |
| <b>TYPE</b>      | Barcode type:<br><b>EAN13</b><br><b>EAN8</b><br><b>CODABAR</b><br><b>CODE128</b>                                                                                                                                                                |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | <b>CODE128A</b><br><b>CODE128B</b><br><b>CODE128C</b><br><b>CODE39</b><br><b>CODE39EXTENDED</b><br><b>CODE93</b><br><b>INDUSTRIAL2OF5</b><br><b>2OF5I</b><br><b>ISBN</b><br><b>2OF5</b><br><b>UPCA</b><br><b>UPCE</b><br><b>BOOKLAND</b><br><b>CODE11</b><br><b>FIM</b><br><b>ITF14</b><br><b>JAN13</b><br><b>LOGMARS</b><br><b>MODIFIEDPLESSEY</b><br><b>MSI2MOD10</b><br><b>MSIMOD10</b><br><b>MSIMOD11</b><br><b>MSIMOD11MOD10</b><br><b>PHARMACODE</b><br><b>POSTNET</b><br><b>TELEPEN</b><br><b>UCC12</b><br><b>UCC13</b><br><b>UPCSUPPLEMENTAL2DIGIT</b><br><b>UPCSUPPLEMENTAL5DIGIT</b><br><b>USD8</b> |
| <b>ROTATE</b>       | Angle of rotation in degrees. Valid values are:<br><b>0, 90, 180, 270</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>FLIP</b>         | Mirrors the barcode:<br><b>X</b> – Horizontal<br><b>Y</b> – Vertical<br><b>XY</b> – Horizontal and Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>LABEL</b>        | Shows the barcode text at the bottom of the barcode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>IGNOREERRORS</b> | If specified, errors are ignored. Errors can occur if the linked data does not result in a valid barcode. In this case, the barcode is omitted from the display on the label.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ANGEL</b>        | Angle of rotation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Example:

```
<CMD="BARCODE"><Y="0"><X="0"><TYPE="EAN13"><TEXT="978020137962"><SIZE="150"><WIDTH="200"><HEIGHT="50">
```

## DATAMATRIX

Zeichnet einen Data Matrix-Code.

| <i>Parameter</i>  | <i>Erklärung</i>                                                                                                                                                                                                                                                          |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b>          | Horizontal position                                                                                                                                                                                                                                                       |
| <b>Y</b>          | Vertical position                                                                                                                                                                                                                                                         |
| <b>WIDTH</b>      | Width                                                                                                                                                                                                                                                                     |
| <b>HEIGHT</b>     | Height                                                                                                                                                                                                                                                                    |
| <b>TEXT</b>       | Data Matrix data                                                                                                                                                                                                                                                          |
| <b>FORECOLOR</b>  | <p>Foreground color (<i>Data Matrix code</i>) as a constant:</p> <p><b>BLACK</b><br/> <b>BLUE</b><br/> <b>GREEN</b><br/> <b>CYAN</b><br/> <b>RED</b><br/> <b>MAGENTA</b><br/> <b>YELLOW</b><br/> <b>WHITE</b></p> <p>or as RGB value <b>R,G,B</b></p> <p>e.g. 255,0,0</p> |
| <b>BACKCOLOR</b>  | <p>Background color as constant:</p> <p><b>BLACK</b><br/> <b>BLUE</b><br/> <b>GREEN</b><br/> <b>CYAN</b><br/> <b>RED</b><br/> <b>MAGENTA</b><br/> <b>YELLOW</b><br/> <b>WHITE</b></p> <p>or as RGB value <b>R,G,B</b></p> <p>e.g. 255,0,0</p>                             |
| <b>ANGEL</b>      | Angle of rotation                                                                                                                                                                                                                                                         |
| <b>MARGINSIZE</b> | Size of the border around the Data Matrix code                                                                                                                                                                                                                            |

|                  |                                                                                                                                                                                                                     |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SCHEME</b>    | Data Matrix Scheme according to ISO:<br><br><b>ASCII</b> ( <i>Default</i> )<br><b>ASCIGS1</b><br><b>AUTOBEST</b><br><b>AUTOFAST</b><br><b>BASE256</b><br><b>C40</b><br><b>EDIIFACT</b><br><b>TEXT</b><br><b>X12</b> |
| <b>MODULSIZE</b> | Size ( <i>quality</i> ) of the Data Matrix code                                                                                                                                                                     |

Beispiel:

```
<CMD="DATAMATRIX"><Y="10"><X="10"><WIDTH="75"><HEIGHT="75"><TEXT="www.esl-easy.de">
```

## QRCODE

Draws a QR code.

| <i>Parameter</i>            | <i>Explanation</i>                                                                                                                          |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b>                    | Horizontal position                                                                                                                         |
| <b>Y</b>                    | Vertical position                                                                                                                           |
| <b>WIDTH</b>                | Width ( <i>and height</i> ) of the QR code                                                                                                  |
| <b>QUITEZONES</b>           | Border area around the QR code:<br><b>ZERO</b> – No margin area ( <i>default</i> )<br><b>TWO</b> – Edge size 1<br><b>FOUR</b> – Edge size 2 |
| <b>TEXT</b>                 | The text to be displayed as a QR code                                                                                                       |
| <b>ERRORCORRECTIONLEVEL</b> | <b>H, L, M, Q</b> ( <i>error correction</i> )                                                                                               |
| <b>ANGEL</b>                | Angle of rotation                                                                                                                           |

Example :

```
<CMD="QRCODE"><Y="0"><X="0"><WIDTH="75"><TEXT="www.esl-easy.de"><QUITEZONES="ZERO"><WIDTH="75">
```

## QRCODE\_VCARD

Draws a QR code as a **vCard** (*business card in international standard*). This QR code is recognized by smartphones as a business card and stored as a contact in the device.

Tags that are not required for the **vCard** information can be omitted (e.g. **TEL\_HOME**).

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| <i>Parameter</i>            | <i>Explanation</i>                                                                                                                          |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b>                    | Horizontal position                                                                                                                         |
| <b>Y</b>                    | Vertical position                                                                                                                           |
| <b>WIDTH</b>                | Width ( <i>and height</i> ) of the QR code                                                                                                  |
| <b>QUITEZONES</b>           | Border area around the QR code:<br><b>ZERO</b> – No margin area ( <i>default</i> )<br><b>TWO</b> – Edge size 1<br><b>FOUR</b> – Edge size 2 |
| <b>TEXT</b>                 | The text to be displayed as a QR code                                                                                                       |
| <b>ERRORCORRECTIONLEVEL</b> | <b>H, L, M, Q</b> ( <i>error correction</i> )                                                                                               |
| <b>VCARD</b>                | <b>TRUE</b><br>The QR code is interpreted as a <b>vCard</b>                                                                                 |
| <b>NAME</b>                 | Name                                                                                                                                        |
| <b>FIRSTNAME</b>            | Forename                                                                                                                                    |
| <b>LASTNAME</b>             | Surname                                                                                                                                     |
| <b>TITLE</b>                | Title                                                                                                                                       |
| <b>TEL_CEL</b>              | Mobile phone number                                                                                                                         |
| <b>TEL_WORK</b>             | Phone number work                                                                                                                           |
| <b>TEL_HOME</b>             | Phone number Home                                                                                                                           |
| <b>TEL_FAX</b>              | Fax number                                                                                                                                  |
| <b>EMAIL_HOME</b>           | eMail address private                                                                                                                       |
| <b>EMAIL_WORK</b>           | eMail address work                                                                                                                          |
| <b>URL</b>                  | Home page                                                                                                                                   |
| <b>STREET</b>               | Street                                                                                                                                      |
| <b>CITY</b>                 | City                                                                                                                                        |
| <b>ZIP</b>                  | Postal code                                                                                                                                 |
| <b>COUNTRY</b>              | Country                                                                                                                                     |
| <b>ORG</b>                  | Organisation                                                                                                                                |

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VCARD_TEMPLATE</b> | <p><b>File name</b> of the template file to be used as a vCard for the QR code (<i>with path</i>). If this tag is <u>not</u> specified, the default template <b>vCard.txt</b> is used (<i>part of ESL-Easy</i>):</p> <p><u>Content of vCard.txt:</u></p> <pre>BEGIN:VCARD VERSION:2.1 FN:&lt;NAME&gt; N:&lt;FIRSTNAME&gt;;&lt;LASTNAME&gt; TITLE:&lt;TITLE&gt; TEL;CELL:&lt;TEL_CELL&gt; TEL;WORK;VOICE:&lt;TEL_WORK&gt; TEL;HOME;VOICE:&lt;TEL_HOME&gt; EMAIL;HOME;INTERNET:&lt;EMAIL_HOME&gt; EMAIL;WORK;INTERNET:&lt;EMAIL_WORK&gt; URL:&lt;URL&gt; ADR;;;&lt;STREET&gt;;&lt;CITY&gt;;;&lt;ZIP&gt;;&lt;COUNTRY&gt; ORG:&lt;ORG&gt; END:VCARD</pre> |
| <b>ANGEL</b>          | Angle of rotation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Example:

```
<CMD="QRCODE_VCARD"><Y="71"><X="88"><WIDTH="327"><QUITEZONES="ZERO">
<ERRORCORRECTIONLEVEL="H"><VCARD><NAME="{NAME}"><FIRSTNAME="{FIRSTNAME}">
<LASTNAME="{LASTNAME}"><TITLE="{TITLE}"><TEL_CELL="{TEL_CELL}">
<TEL_WORK="{TEL_WORK}"><TEL_HOME="{TEL_HOME}"><EMAIL_HOME="{EMAIL_HOME}">
<EMAIL_WORK="{EMAIL_WORK}"><URL="{URL}"><STREET="{STREET}"><CITY="{CITY}">
<ZIP="{ZIP}"><COUNTRY="{COUNTRY}"><ORG="{ORG}"><TEL_FAX="{TEL_FAX}">
<HEIGHT>
```

Data:

| Data 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Data 2 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <pre>&lt;STREET="Muehlenstrasse 20"&gt; &lt;TEL_WORK="+495904964426"&gt; &lt;CITY="Lengerich"&gt; &lt;_DESCRIPTION&gt; &lt;ORG="EWS GmbH &amp; Co KG"&gt; &lt;TEL_HOME&gt; &lt;COUNTRY="Germany"&gt; &lt;TEL_CELL="+4915901600051"&gt; &lt;_DATAID="Andreas Lange"&gt; &lt;FIRSTNAME="Andreas"&gt; &lt;ZIP="49838"&gt; &lt;EMAIL_HOME="andreas@a-lange.de"&gt; &lt;TEL_FAX="+493094631134"&gt; &lt;NAME="Andreas Lange"&gt; &lt;URL="www.ews-gmbh.org"&gt; &lt;LASTNAME="Lange"&gt; &lt;TITLE="ESL-Team Germany"&gt; &lt;EMAIL_WORK="a.lange@ews-gmbh.org"&gt;</pre> |        |

Result:



## PRICE

Output of a price with the possibility to display the decimal places offset in a different size and, if necessary, underlined. In addition, a currency symbol can be displayed. The price field can still be overlaid with a graphic, e.g. to cross out the price. The positions of the individual components of the price (*decimal value*, *decimal point*, *currency*) can be adjusted in size and position.

| <i>Parameter</i> | <i>Explanation</i>                                                                                                                                                                                                                    |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b>         | Horizontal position                                                                                                                                                                                                                   |
| <b>Y</b>         | Vertical position                                                                                                                                                                                                                     |
| <b>WIDTH</b>     | Width of the price field                                                                                                                                                                                                              |
| <b>HEIGHT</b>    | Height of the price field                                                                                                                                                                                                             |
| <b>BACKCOLOR</b> | Background color of the price field as a constant:<br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b><br><b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br>e.g. 255,0,0 |
| <b>TEXTCOLOR</b> | Background color of the price field as a constant:<br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b><br><b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b>                 |

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|                         |                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | e.g. 255,0,0                                                                                                                                           |
| <b>KOFFSETX</b>         | Distance of the comma to the main price. Can be negative or positive                                                                                   |
| <b>NSCALE</b>           | Scaling factor of decimal places                                                                                                                       |
| <b>NOFFSETX</b>         | Horizontal distance of decimal places to the main price. Can be negative or positive                                                                   |
| <b>NOFFSETY</b>         | Vertical distance of decimal places to the main price. Can be negative or positive                                                                     |
| <b>WSCALE</b>           | Scaling factor of the currency symbol                                                                                                                  |
| <b>WOFFSETX</b>         | Horizontal distance of the currency symbol to the main price. Can be negative or positive                                                              |
| <b>WOFFSETY</b>         | Vertical distance of the currency symbol to the main price. Can be negative or positive                                                                |
| <b>IMAGE</b>            | An image ( <i>file name</i> ) that is overlaid on the price field. This can be used, for example, to output a graphic for crossing out the price.      |
| <b>IMAGEBASE64</b>      | An image in <b>BASE64</b> format, which is overlaid on the price field. This can be used, for example, to output a graphic for crossing out the price. |
| <b>IMAGETRANSPARENT</b> | Displays the image with a transparent background                                                                                                       |
| <b>ROTATE</b>           | Angle of rotation of the price field in degrees                                                                                                        |
| <b>RIGHT</b>            | Align price right-aligned                                                                                                                              |
| <b>FONT</b>             | Name of the font ( <i>installed fonts</i> )                                                                                                            |
| <b>FONTSIZE</b>         | Font size of the text                                                                                                                                  |
| <b>BOLD</b>             | Bold                                                                                                                                                   |
| <b>ITALIC</b>           | Italic                                                                                                                                                 |
| <b>REGULAR</b>          | Standard                                                                                                                                               |
| <b>STRIKEOUT</b>        | Strikeout                                                                                                                                              |
| <b>UNDERLINE</b>        | Underline                                                                                                                                              |

Example:

```
<CMD="PRICE"><X="0"><Y="0"><WIDTH="200"><HEIGHT="100"><TEXT="99.95">
<TEXTCOLOR="BLACK"><FONT="Calibri"><FONTSIZE="50"><NSCALE="50"><NOFF
SETY="-40"><WAEHRUNG="€"><WSCALE="70"><WOFFSETX="20"><WOFFSETY="-
20">
```

**NFC (Hanshow)**

Encodes information for the **NFC** chip built into the ESL label. Data in the **public** area can be read out with all common NFC readers (*e.g. customer's smartphone*). The data is stored in **NDEF** format, so that a smartphone can use the encoding to recognize what it should do with the read data (*e.g. **URI\_STANDARD** to open the specified web page*).

| <i>Parameter</i>       | <i>Explanation</i>                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>URI_STANDARD</b>    | <p>A <b>URI</b> is stored in the public area of the <b>NFC</b> chip, which can be read and evaluated by a smartphone, for example. It must be one of the well-formed encodings in the NDEF standard (<i>see <b>NDEF</b> documentation on the Internet</i>)</p> <p>Example: <b>http://www.esl-easy-de</b></p>                                                       |
| <b>TEXT_STANDARD</b>   | A <b>free text</b> is stored in the public area of the <b>NFC</b> chip, which can be read and evaluated by a smartphone, for example.                                                                                                                                                                                                                              |
| <b>URI_PRIVATE</b>     | <p>A <b>URI</b> is stored in the private area of the <b>NFC</b> chip, which can be read and evaluated by a smartphone, for example. It must be one of the well-formed encodings in the NDEF standard (<i>see <b>NDEF</b> documentation on the Internet</i>).</p> <p>Special HANSHOW software is required to read and evaluate the private area of the NFC chip</p> |
| <b>TEXT_PRIVATE</b>    | <p>A <b>free text</b> is stored in the private area of the <b>NFC</b> chip, which can be read and evaluated by a smartphone, for example.</p> <p>Special HANSHOW software is required to read and evaluate the private area of the NFC chip</p>                                                                                                                    |
| <b>NFC_KEY</b>         | A <b>16-character</b> text used as a <b>key</b> for reading the private area of the <b>NFC</b> chip. For shorter text, it is filled with spaces at the front.                                                                                                                                                                                                      |
| <b>TAG_PERMISSSION</b> | <p>Determines the access permission for the <b>public</b> area of the <b>NFC</b> chip.</p> <p><b>READONLY</b> – Read only<br/> <b>WRITE</b> – Write only<br/> <b>READWRITE</b> – Read and write</p> <p>To set the permission, <b>NFC_KEY</b> must be specified</p>                                                                                                 |
| <b>APP_PERMISSSION</b> | <p>Determines the access permission for the <b>private</b> area of the <b>NFC</b> chip.</p> <p><b>READONLY</b> – Read only<br/> <b>WRITE</b> – Write only<br/> <b>READWRITE</b> – Reading and reading</p> <p>To set the permission, <b>NFC_KEY</b> must be specified</p>                                                                                           |

Example:

```
<CMD="NFC"><URI_STANDARD="{URI_STANDARD}"><URI_PRIVATE="{URI_PRIVATE}"><NFC_KEY="GeheimerKey"><TAG_PERMISSION="READONLY"><APP_PERMISSION="READWRITE">
```

### NFC (Overtime)

Encodes information for the **NFC** chip built into the ESL label.

| Parameter | Explanation                                                                                                                                                                        |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NFC_URL   | <p>A <b>URL</b> or <b>text</b>.</p> <p>With a <b>URL</b> , it is automatically opened by a smartphone after reading the NFC chip</p> <p>Example: <b>http://www.esl-easy-de</b></p> |

Example:

```
<CMD="NFC"><NFC_URL="http://www.esl-easy.de">
```

### LOCATION

This command limits the visibility of the template in the template selection. An **inclusion** list and an **exclusion** list can be specified. Accordingly, the template is only displayed if the **location** appears in the lists.

| Parameter | Explanation                                                                                                                                                           |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INCLUSION | <b>Location</b> numbers can be specified here, separated by commas. The template is displayed if the current location appears in the <b>INCLUSION</b> list            |
| EXCLUSION | <b>Location</b> numbers can be specified here, separated by commas. The template is <u>not</u> displayed if the current location appears in the <b>EXCLUSION</b> list |

Example:

```
<CMD="LOCATION"><INCLUSION="1"><EXCLUSION="">
```

### CHECKDATA

With **CHECKDATA** it is possible to check the user data (*internal or external data from the universal gateway*) to see if they match the current template. This prevents the user from choosing an incorrect template, which does not match the user data. This can happen if there are multiple templates for an ESL label type. The check can be carried out on any data field provided. It is also possible to check several values in the data field with **AND** or **OR**. If the check is negative (*i.e. expected values do not match*), a message is displayed to the user when a label is linked. Depending on the selected **ACTION**, the user can then choose whether he wants to continue, or the process is aborted.

| Parameter | Explanation                                              |
|-----------|----------------------------------------------------------|
| FIELD     | Data field from the user data, which is used for testing |

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|                   |                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VALUE</b>      | the value specified here is compared to the contents of the field                                                                                                                                                                                                                                                                                                     |
| <b>VALUESAND</b>  | Multiple values can be separated by commas. Each value is compared to the contents of the field. All values must match the field contents                                                                                                                                                                                                                             |
| <b>VALUESOR</b>   | Multiple values can be separated by commas. Each value is compared to the contents of the field. At least one value must match the field contents                                                                                                                                                                                                                     |
| <b>COMPARISON</b> | <p>The type of comparison between the field content and the comparison value from <i>VALUE</i></p> <p><b>EQUAL</b> – The comparison must be correct (<i>field = value</i>)</p> <p><b>UNEQUAL</b> – The comparison must not be correct (<i>field &lt;&gt; value</i>)</p> <p><b>CONTAINS</b> – The value must be included in the field (<i>InString comparison</i>)</p> |
| <b>MESSAGE</b>    | The message text displayed to the user if the check is negative                                                                                                                                                                                                                                                                                                       |
| <b>ACTION</b>     | <p><b>YESNO</b> – The user can choose whether to continue</p> <p><b>OK</b> – The user can only confirm the message, the process will continue</p> <p><b>CANCEL</b> - The user can only confirm the message, the process is aborted</p>                                                                                                                                |

Example:

```
<CMD="CHECKDATA"><FIELD="WGR"><VALUE="10"><COMPARISON="UNEQUAL"><MESSAGE="Artikel und Template passen nicht zur Produktgruppe WEIN. Soll die Verknüpfung trotzdem erfolgen?"><ACTION="YESNO">
```

## PARAM

Label-specific parameters can be defined in the template, which the user can set individually for the current label when linking the label. This makes it possible, for example, to display an arrow on a label that should only appear on the current label, even if there are other labels that are linked to the same data. Such data cannot be supplied from the external data, as they must be set individually in relation to the current label. The label parameters are stored in ESL-Easy directly to the label id.

In the template, the label parameters can be accessed directly from the user data (*{parameter name}*). This means that the same possibilities for comparison and output are available as for the user data.

| <i>Parameter</i> | <i>Explanation</i>                                                                                                                                                          |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>      | Name of the parameter                                                                                                                                                       |
| <b>VALUES</b>    | Values separated by semicolons, which the user receives as a preselection for this parameter. If <b>VALUES</b> is left blank, the user can enter any text for the parameter |
| <b>GROUP</b>     | A parameter can be assigned to a group. If <b>GROUP</b> is specified, the label parameters are displayed on the mobile device grouped with the group heading                |

|                          |                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LOCATIONINCLUSION</b> | Here you can specify in which locations the parameter should be displayed. Multiple locations can be specified separated by commas                               |
| <b>LOCATIONEXCLUSION</b> | Here you can specify in which locations the parameter should not be displayed ( <i>exclusion list</i> ). Multiple locations can be specified separated by commas |

Example:

```
<CMD="PARAM"><NAME="ARROW"><VALUES="NONE;UP;DOWN;RIGHT;LEFT">
```

### ATEXT (*Attribute text*)

With this command it is possible to format a text differently with a text command (e.g. *different fonts, font sizes, colors and stems*). For this purpose, control commands can be inserted into the actual text.

For the general formatting of the text, the parameters of "TEXT" can be used (e.g. **LTRIM**, **MAXLENGTH**, etc. , see **TEXT**)

| <i>Parameter</i>                             | <i>Explanation</i>                                                                                                                                                                                                               |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X</b>                                     | Horizontal position                                                                                                                                                                                                              |
| <b>Y</b>                                     | Vertical position                                                                                                                                                                                                                |
| <b>WIDTH</b>                                 | Width                                                                                                                                                                                                                            |
| <b>HEIGHT</b>                                | Height                                                                                                                                                                                                                           |
| <b>TEXT</b>                                  | Text with control commands ( <i>see next table</i> )                                                                                                                                                                             |
| <b>ANGLE</b>                                 | Rotation angle                                                                                                                                                                                                                   |
| <b>ROTATIONPOINT</b>                         | Point around which to rotate<br><br><b>UPPERLEFT</b><br><b>UPPERCENTER</b><br><b>UPPERRIGHT</b><br><b>CENTERLEFT</b><br><b>CENTERCENTER</b><br><b>CENTERRIGHT</b><br><b>LOWERLEFT</b><br><b>LOWERCENTER</b><br><b>LOWERRIGHT</b> |
| <b>LEFT</b><br><b>CENTER</b><br><b>RIGHT</b> | Text alignment                                                                                                                                                                                                                   |
| <b>JUSTIFICATION</b>                         | Justification                                                                                                                                                                                                                    |
| <b>BGCOLOR</b>                               | Background color                                                                                                                                                                                                                 |

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**BGDISTANCE**

Frame ready of background color

Control commands within the text are introduced and completed with **two underscores** (*\_\_formatting command:value\_\_*).

| <i>Steuerbefehl in TEXT</i>                             | <i>Explanation</i>                                                                                                                                                                                                                              |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><i>__COLOR:color__</i></b>                           | Text color:<br><br><b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b><br><b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br><br>e.g. <b>__COLOR:RED__</b> or <b>__COLOR:255,0,0__</b> |
| <b><i>__BASE:pixel__</i></b>                            | Deviation of the vertical position of the following text in pixels<br><br>an <b>__BASE:-5__</b> area.<br>an <b>area.</b>                                                                                                                        |
| <b><i>__STYLE:style__</i></b>                           | <b>BOLD</b><br><b>ITALIC</b><br><b>REGULAR</b><br><b>STRIKEOUT</b><br><b>UNDERLINE</b><br><br>Several details can be combined (e.g. <b>ITALICBOLD</b> )                                                                                         |
| <b><i>__FONT:font name, font size, font style__</i></b> | <b>Font name, font size, font style</b><br><br>Example: <b>__FONT:Sanserif,30,REGULAR__</b>                                                                                                                                                     |
| <b><i>__SIZE:font size__</i></b>                        | <b>Font size</b> ( <i>only the font size is changed, not the font itself</i> )                                                                                                                                                                  |

Example:

```
<CMD="ATEXT"><Y="13"><X="12"><WIDTH="378"><HEIGHT="279"><TEXT=" __STYLE:REGULAR__ With the new command
__STYLE:BOLD__ __COLOR:RED__ ATEXT __STYLE:REGULAR__ __COLOR:BLACK__
different __STYLE:ITALIC__ formatting __STYLE:ITALICBOLD__ of
__STYLE:UNDERLINE__ text areas __STYLE:REGULAR__ can be combined
within a text line. Previously it was only possible to display the
text of one size and one font for each
__FONT:Sanserif,30,REGULAR__ TEXT __FONT:Arial,20,REGULAR__ command.
With __FONT:Times New
```

Roman,30,BOLDITALIC\_\_ATEXT\_\_FONT:Arial,20,REGULAR\_\_ you can specify formatting commands within the text, which then use different \_\_FONT:SegoeUI,25,REGULAR\_\_ fonts, \_\_FONT:SegoeUI,20,UNDERLINE\_\_ sizes and \_\_COLOR:GREEN\_\_ colors \_\_FONT:ARIAL, 20,REGULAR\_\_ COLOR:BLACK\_\_ allow. It is also possible to use wordwrap and autosize to automatically fit the text \_\_STYLE:STRIKEOUT\_\_ euf \_\_STYLE:REGULAR\_\_ to an area."><COLOR="BLACK"><FONT="Calibri"><FONTSIZE="22"><WORDWRAP><AUTO SIZE><JUSTIFICATION>

Result:

With the new command **ATEXT** different *formatting of text areas* can be combined within a text line. Previously it was only possible to display the text of one size and one font for each **TEXT** command. With **ATEXT** you can specify formatting commands within the text, which then use different fonts, sizes and colors allow. It is also possible to use wordwrap and autosize to automatically fit the text euf to an area.

300px

400px

## COCKPITCHART

Represents a cockpit graphic.

| Parameter                                                                            | Explanation                                                              |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>X</b>                                                                             | Horizontal position                                                      |
| <b>Y</b>                                                                             | Vertical position                                                        |
| <b>WIDTH</b>                                                                         | Width                                                                    |
| <b>HEIGHT</b>                                                                        | Height                                                                   |
| <b>VALUE</b>                                                                         | Displayed value                                                          |
| <b>MAXVALUE</b>                                                                      | Highest possible value                                                   |
| <b>TEXT</b>                                                                          | Displayed text in the chart                                              |
| <b>FONT</b>                                                                          | Text font                                                                |
| <b>FONTSIZE</b>                                                                      | Font size                                                                |
| <b>EDGE</b>                                                                          | Width of the edge of the chart                                           |
| <b>COLOREDGE</b><br><b>COLORVALUE</b><br><b>COLORBACK</b><br><b>COLORVALUEMARKER</b> | <b>BLACK</b><br><b>BLUE</b><br><b>GREEN</b><br><b>CYAN</b><br><b>RED</b> |

## ESL-Easy Template Editor and Command Reference

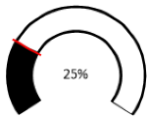
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|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                              | <b>MAGENTA</b><br><b>YELLOW</b><br><b>WHITE</b><br><br>or as RGB value <b>R,G,B</b><br><br>e.g. 255,0,0                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>TEXTAUTOSIZE</b>                                                                          | <b>TRUE</b><br>If specified, the text is automatically scaled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>VALUEMARKER</b>                                                                           | <b>TRUE</b><br>If specified, a marker is displayed at the specified <b>VALUE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>VALUEMARKERWIDTH</b><br><b>VALUEMARKERHEIGHT</b>                                          | Height and width of the marker in pixels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>LINECAPBACK</b><br><b>LINECAPEDGE</b><br><b>LINECAPVALUE</b><br><b>LINECAPVALUEMARKER</b> | Specifies the type of line start and end:<br><br><b>ARROWANCHOR</b> - Specifies an arrow-shaped anchor end<br><b>DIAMONDANCHOR</b> - Specifies a diamond-shaped anchor end<br><b>FLAT</b> - Specifies a flattened line end<br><b>NOANCHOR</b> - Indicates that no anchor is used<br><b>ROUND</b> - Specifies a round line end<br><b>ROUNDANCHOR</b> - Specifies a round anchor end<br><b>SQUARE</b> - Specifies a square line end<br><b>SQUAREANCHOR</b> - Specifies a square anchor line end<br><b>TRIANGLE</b> - Specifies a triangular line end |
| <b>BARWIDTH</b>                                                                              | Width of the chart bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ANGLE</b>                                                                                 | Rotation angle for display                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ROTATIONPOINT</b>                                                                         | Rotation point<br><br><b>UPPERLEFT</b><br><b>UPPERCENTER</b><br><b>UPPERRIGHT</b><br><b>CENTERLEFT</b><br><b>CENTERCENTER</b><br><b>CENTERRIGHT</b><br><b>LOWERLEFT</b><br><b>LOWERCENTER</b><br><b>LOWERRIGHT</b>                                                                                                                                                                                                                                                                                                                                 |
| <b>OPENCIRCLEPERCENT</b>                                                                     | Open area of the chart in percent ( <i>bottom</i> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Example:

```
<CMD="COCKPITCHART"><Y="29"><X="37"><WIDTH="100"><HEIGHT="100"><VALUE="25"><MAXVALUE="100"><TEXT="25%"><FONT="Calibri"><FONTSIZE="22"><EDGE="2"><TEXTAUTOSIZE="TRUE"><VALUEMARKER="TRUE"><COLORVALUEMARKER="255,0,0">
```

Result:



## END

Cancels the processing of the template at this point. All subsequent command lines are no longer processed.

## Dynamic alignment of objects

Objects can be positioned or adjusted depending on other objects. For this purpose, each object in the source code can be assigned an object name.

```
<NAME="Object1">
```

In any other object in the source code (*hereinafter referred to as this object – an object must have already been drawn in the source code to access its data*) parameters of the object with the specified name can now be accessed. This allows objects to be dynamically resized, or to move their position based on the size of the reference object.

**Attention:** For technical reasons, the result of dynamic object adjustments is not displayed graphically in the template editor. Only the preview shows the final result.

The following commands are available for dynamically calculating objects:

| Parameter            | Explanation                                                                          |
|----------------------|--------------------------------------------------------------------------------------|
| <b>ADDXFROM</b>      | Adds all attributes to the X coordinate for a calculated position X                  |
| <b>SUBXFROM</b>      | Subtracts all attributes from the X coordinate for a calculated position X           |
| <b>ADDYFROM</b>      | Adds all attributes to the y-coordinate for a calculated position Y.                 |
| <b>SUBYFROM</b>      | Subtracts all attributes from the y-coordinate for a calculated position Y           |
| <b>ADDWIDTHFROM</b>  | Adds all attributes to the WIDTH coordinate for a calculated position WIDTH          |
| <b>SUBWIDTHFROM</b>  | Subtracts all attributes from the WIDTH coordinate for a calculated position WIDTH   |
| <b>ADDHEIGHTFROM</b> | Adds all attributes to the HEIGHT coordinate for a calculated position HEIGHT        |
| <b>SUBHEIGHTFROM</b> | Subtracts all attributes from the HEIGHT coordinate for a calculated position HEIGHT |
| <b>ADDTOXFROM</b>    | Adds all attributes to the TOX coordinate for a calculated position TOX (lines)      |

|                   |                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------|
| <b>SUBTOXFROM</b> | Subtracts all attributes from the TOX coordinate for a calculated position TOX ( <i>lines</i> ) |
| <b>ADDTOYFROM</b> | Adds all attributes to the TOY coordinate for a calculated position TOY ( <i>lines</i> )        |
| <b>SUBTOYFROM</b> | Subtracts all attributes from the TOY coordinate for a calculated position TOY ( <i>lines</i> ) |

### Structure of dynamic commands

<Command, @object name, Parameter, Parameter, @Object name, Parameter, Parameter, ...>

#### Example:

```
<ADDYFROM="@OBJECT1, Y, HEIGHT">
```

Adds the values **Y** and **HEIGHT** of object **OBJECT1** to the specified **Y** value. Thus, if <Y="10"> is specified and the values <Y="20"><HEIGHT="10"> in OBJECT1, then the result would be Y = 40 (10 + 20 + 10).

Values from different objects can be accessed. To do this, the parameters first specify the object name, followed by the parameters to be accessed. This specification is then repeated with the next object.

#### Example:

```
<ADDYFROM="@OBJECT1, Y, HEIGHT, @OBJECT2, Y, HEIGHT">
```

Adds to **Y** the **Y** and **HEIGHT** values of **OBJECT1** and **OBJECT2**.

Instead of parameters, fixed numbers can also be specified.

#### Example:

```
<ADDXFROM="@OBJECT1, Y, WIDTH, 20"> - Add 20 points to the result.
```

If only the object name is specified, the attribute matching the command is accessed.

#### Example:

```
<ADDXFROM="PRICE"> -> Accesses the object named PRICE and the X attribute.
```

If only one number is given, this number shall be added or subtracted accordingly.

#### Example:

```
<ADDXFROM="-100"> - Subtracts 100 points from X (equivalent to <SUBXFROM="100">)
```

With **IMAGE**, **BARCODE**, **QRCODE**, **QRCODE\_VCARD** and **PRICE**, **WIDTH** and **HEIGHT** must be greater than 0 in the source code, otherwise these objects cannot be drawn. In the case of a dependency, **WIDTH** or **HEIGHT** must be subtracted again if the dependency relates directly to another object.

#### Example:

```
<CMD="RECTANGLE"><NAME="REC3"><Y="200"><X="0"><WIDTH="400"><HEIGHT="100"><ADDYFROM="@REC1, Y, HEIGHT, -200, @REC2, HEIGHT"><SUBHEIGHTFROM="@REC1, HEIGHT, @REC2, HEIGHT"><ADDHEI
```

```
GHTFROM="200">
```

```
<COLOR="BLACK"><THICKNESS="1"><STYLE="SOLID"><BGCOLOR="BLACK">
```

## Variables

In the template, variables with content can be specified, which can then be accessed within a **WHEN** condition.

### SETVARIABLE

Sets a variable to a value.

| <i>Parameter</i> | <i>Explanation</i>       |
|------------------|--------------------------|
| <b>NAME</b>      | Name of the variable     |
| <b>VALUE</b>     | Contents of the variable |

Example:

```
<CMD="SETVARIABLE"><NAME="FILIALE"><VALUE="0815">
```

### CLEARVARIABLE

Deletes a variable.

| <i>Parameter</i> | <i>Explanation</i>   |
|------------------|----------------------|
| <b>NAME</b>      | Name of the variable |

Example:

```
<CMD="CLEARVARIABLE"><NAME="FILIALE">
```

### CLEARALLVARIABLE

Deletes all variables.

Example:

```
<CMD="CLEARALLVARIABLE">
```

### Query variable (example)

```
<CMD="TEXT"><WHEN="[ISEQUAL~(FILIALE)~0815]"><X="334"><WIDTH="153"><HEIGHT="62"><TEXT="FILIALE stimmt mit 0815  
überein"><COLOR="BLACK"><FONT="Calibri"><FONTSIZE="22"><Y="519">
```

## Macros

Macros are replaced by the appropriate encoding on the command line. The standard formatting of the operating system is used for output. You can specify your own **date** and **time** formatting on the command line that overrides the default formatting (**<DATEFORMAT=""** and **<TIMEFORMAT=""**):

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Example:

&lt;DATEFORMAT="dd.MM.yyyy"&gt; for 31.12.2020

&lt;TIMEFORMAT="HH:mm:ss"&gt; for 12:09:23

| <b>Function</b>      | <b>Coding</b>                                                                         |
|----------------------|---------------------------------------------------------------------------------------|
| %%TODAY%%            | Current date                                                                          |
| %%TODAYMINUSONE%%    | Current date – 1 day                                                                  |
| %%TODAYMINUSTWO%%    | Current date – 2 days                                                                 |
| %%TODAYMINUSTHREE%%  | Current date – 3 days                                                                 |
| %%TODAYMINUSFOUR%%   | Current date – 4 days                                                                 |
| %%TODAYMINUSFIVE%%   | Current date – 5 days                                                                 |
| %%TODAYPLUSONE%%     | Current date + 1 day                                                                  |
| %%TODAYPLUSTWO%%     | Current date + 2 days                                                                 |
| %%TODAYPLUSTHREE%%   | Current date + 3 days                                                                 |
| %%TODAYPLUSFOUR%%    | Current date + 4 days                                                                 |
| %%TODAYPLUSFIVE%%    | Current date + 5 days                                                                 |
| %%WEEKDAY%%          | Current day of the week as text ( <i>in the set national language of the PC</i> )     |
| %%WEEKDAYPLUSONE%%   | Current day of the week + 1 as text ( <i>in the set national language of the PC</i> ) |
| %%WEEKDAYPLUSTWO%%   | Current day of the week + 2 as text ( <i>in the set national language of the PC</i> ) |
| %%WEEKDAYPLUSTHREE%% | Current day of the week + 3 as text ( <i>in the set national language of the PC</i> ) |
| %%WEEKDAYPLUSFOUR%%  | Current day of the week + 4 as text ( <i>in the set national language of the PC</i> ) |
| %%WEEKDAYPLUSFIVE%%  | Current day of the week + 5 as text ( <i>in the set national language of the PC</i> ) |
| %%WEEKDAYPLUSSIX%%   | Current day of the week + 6 as text ( <i>in the set national language of the PC</i> ) |
| %%TOMORROW%%         | Tomorrow                                                                              |

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|                       |                                                                         |
|-----------------------|-------------------------------------------------------------------------|
| %%YESTERDAY           | Yesterday                                                               |
| %%FIRSTDAYOFTHEWEEK%% | First day of the current week                                           |
| %%WEEK%%              | Calendar week of the current date                                       |
| %%DAY%%               | Current day in <b>dd</b> format (e.g. 04)                               |
| %%MONTH%%             | Current month in <b>MM</b> format (e.g. 01)                             |
| %%SHORTYEAR%%         | Current year in the format <b>yy</b> (e.g. 20)                          |
| %%LONGYEAR%%          | Current year in the format <b>yyyy</b> (e.g. 2020)                      |
| %%YEAR%%              | Current year in the format <b>yyyy</b> (e.g. 2020, equal %%YEAR%%)      |
| %%TIME%%              | Current time in the format <b>HH:mm:ss</b> (e.g. 08:55:25)              |
| %%HOUR%%              | Current hour in <b>HH</b> format (e.g. 08)                              |
| %%MINUTE%%            | Current minute in <b>mm</b> format (e.g. 56)                            |
| %%SECOND%%            | Current second in <b>ss</b> format (e.g. 31)                            |
| %%IPADDRESS%%         | Current <b>IP</b> address                                               |
| %%IPADDRESSES%%       | List of all current <b>IP</b> addresses separated by commas as one text |
| %%APPPATH%%           | Current program path of the application                                 |
| %%HOSTNAME%%          | Host name of the PC                                                     |
| %%VERSION%%           | Program version of the application ( <i>for internal use</i> )          |
| %%TOOLSVERSION%%      | DLL version of BSL_Tools ( <i>for internal use</i> )                    |

### Macro fields

In the following fields there are additional macro evaluations, which are specified with square brackets:

| Command  | Tag        |
|----------|------------|
| NFC      | PAYLOAD    |
| TEXT     | FILE, TEXT |
| IMAGE    | FILE       |
| BARGRAPH | PERCENT    |
| BARCODE  | TEXT       |
| QRCODE   | TEXT       |

PRICE

TEXT, IMAGE

## DATAVALUE

A data field can be accessed with **[DATAVALUE~Data Field]**. This is an alternative method to simple notation **{data field}**. If data is accessed within macro fields, **this** notation is required.

Example:

**[DATAVALUE~NAME]** -> Prints the contents of the **NAME** data field.

```
<TEXT="[SPLITREPEAT~[DATAVALUE~LIST]~,~__SPLITVALUE__~-]">
```

Data field: <LIST="Jan, Feb, Mar, Apr">

Result: Jan-Feb-Mar-Apr

## SPLITREPEAT

**[SPLITREPEAT~Text~Separator~Substring~Replace characters]**

Separates text based on the specified delimiter and reprints each item in a reformatted form.

**Substring** – This text is output for each separated substring. To access the original text, **\_\_SPLITVALUE\_\_** must be specified. In the case of free text, this is output for each substring from the separation process.

Examples:

```
<TEXT="[SPLITREPEAT~1,2,1~,~__SPLITVALUE__~-]">
```

Output: 1-2-3

The text **1,2,3** is divided into substrings using the **comma**. After that, each substring is reassembled and output separately with a **minus** sign.

```
<TEXT="[SPLITREPEAT~1,2,1~,~X~---]">
```

Output: X---X---X

The text **1,2,3** is divided into substrings using the comma. After that, an **X** is inserted for each substring and reassembled and output separately with **three minus** signs.

## REGEX

**[REGEX~Text~Pattern~]** can be used to evaluate a regular expression. The result is inserted as text.

Example:

```
<TEXT="[REGEX~Eins Zwei Drei~\b[A-Z]~]">
```

Output: EZD

The text is searched for **uppercase characters** and returned as new text.

## CALC

With [**CALC**~*Calculation Formula*~*Formatting*], a calculation can be made by specifying a calculation formula. Fixed numerical values or values from the data can be used.

Example:

```
<TEXT="Base price [CALC~{PRICE}/{QUANTITY}~0.00]€ / {UNIT}">
```

Output e.g.: **Base price 59.60 / kg**

The calculation formula is given according to [**CALC**~. Complex calculation expressions with bracket levels can be used to perform a calculation. Instead of fixed numerical values, the values can also come from the data fields (*{data field}*).

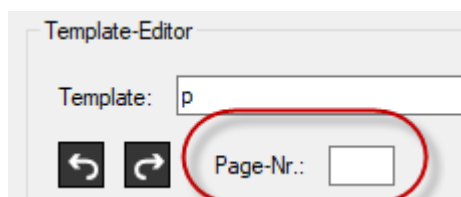
After the calculation formula has been specified, the calculated value can be formatted. See **Formatting Data Fields**.

Example: [**CALC**~. . . ~0.00|0|. ] -> **59.60**

The calculated value is output with two decimal places and the decimal separator is replaced by a point (*if the decimal separator is a comma, for example*).

## PAGE

A special feature of the **ESL** labels is, that several views can be stored in the label. The view that is currently active is then always shown on the display. In order to generate several views in one template, a separate source code area can be defined for each view. The graphical editor currently displays the Page that can be found under



If no page number is specified or only one view is defined for the label in the template (*no PAGE command available*), everything is assigned to the first page and displayed.

| Command       | Tag                                                                                                                     |
|---------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>PAGENO</b> | Current page number for the ESL label. starting with this line, all subsequent lines are assigned to the specified page |

The ESL Easy Server knows commands for switching the view on the ESL labels (*see Command Reference ESL Easy Server*).

Example:

```
<CMD="PAGE"><PAGENO="1">
```

```
<CMD="TEXT"><Y="0"><X="0"><WIDTH="554"><HEIGHT="416"><TEXT="[SPLITRE  
PEAT~1,2,1~,~__SPLITVALUE__~-  
]"><COLOR="BLACK"><FONT="Calibri"><FONTSIZE="22"><BOLD="FALSE"><AUTO  
SIZE><WORDWRAP>
```

The source code marked in **red** belongs to Page 1.

```
<CMD="PAGE"><PAGENO="2">
```

```
<CMD="TEXT"><Y="0"><X="0"><WIDTH="554"><HEIGHT="416"><TEXT="[SPLITRE  
PEAT~2,1,2~,~__SPLITVALUE__~-  
]"><COLOR="BLACK"><FONT="Calibri"><FONTSIZE="22"><BOLD="FALSE"><AUTO  
SIZE><WORDWRAP>
```

```
<CMD="ELLIPSE"><Y="0"><X="0"><WIDTH="100"><HEIGHT="100"><COLOR="BLAC  
K"><STYLE="SOLID"><THICKNESS="2"><BGCOLOR="255,0,0">
```

```
<CMD="POLYGON"><COLOR="BLACK"><BGCOLOR="255,0,0"><POINTS="10,10;100,  
100;150,100;150,200">
```

The source code marked in **blue** belongs to Page 2.

## WHEN

A **WHEN** condition can be specified for each command in a template file. If the **WHEN** conditions are met, the line is executed. Multiple conditions can be combined in a **WHEN** parameter.

For an **IF** condition, the **WHEN** condition determines whether the following source code section (*up to ELSE or ENDIF*) is used.

### Combination of WHEN conditions

| <i>WHEN-Parameter</i> | <i>Description</i>                                                                                     |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| <b>WHEN, WHENAND</b>  | All conditions must be met ( <b>AND link</b> ) for the command to be executed                          |
| <b>WHENOR</b>         | At least one of the specified conditions must be met ( <b>OR link</b> ) for the command to be executed |

Examples:

```
<CMD="TEXT"><WHEN="[ISEMPTY~PREIS]">...
```

Each **WHEN** specification is in the format [*Command~Parameter 1~Parameter 2*], although a different number of parameters can exist depending on the command. Multiple **WHEN** conditions are listed consecutively [*Command~Parameter 1~Parameter 2*] [*Command~Parameter 1~Parameter 2*]...

Example:

```
<WHEN=" [ ISEMPY~PREIS ] [ ISTAG~SONDERPREIS ] ">
```

In the parameters, **macros** (see Macros) and data fields (see **Data fields**) can be used.

### List of WHEN commands

| <i><b>WHEN-Commands</b></i> | <i><b>Description</b></i>                                                                                                                                                                                                              |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISTAG</b>                | <p>Query whether the specified data field (<i>tag</i>) exists in the connected data</p> <p><b>Parameter 1:</b> Name of the tag</p> <p>The data field is specified without {}.<br/>For example, &lt;WHEN="[ISTAG~ITEMNO]"&gt;</p>       |
| <b>ISNOTTAG</b>             | <p>Query if the specified data field (<i>tag</i>) does not exist in the connected data</p> <p><b>Parameter 1:</b> Name of the tag</p> <p>The data field is specified without {}.<br/>For example, &lt;WHEN="[ISNOTTAG~ITEMNO]"&gt;</p> |
| <b>ISEQUAL</b>              | <p>Query if parameter 1 and parameter 2 are equal (<i>string comparison</i>)</p> <p>String(<b>Parameter 1</b>) = String(<b>Parameter 2</b>)</p>                                                                                        |
| <b>ISNOTEQUAL</b>           | <p>Query if parameter 1 and parameter 2 are not equal (<i>string comparison</i>)</p> <p>String(<b>Parameter 1</b>) &lt;&gt; String(<b>Parameter 2</b>)</p>                                                                             |
| <b>ISINTEQUAL</b>           | <p>The parameters are considered as an int number and evaluated whether both are equal</p> <p>Int(<b>Parameter 1</b>) = Int(<b>Parameter 2</b>)</p>                                                                                    |
| <b>ISNOTINTEQUAL</b>        | <p>The parameters are considered as int numbers and evaluated to see if both are unequal</p> <p>Int(<b>Parameter 1</b>) &lt;&gt; Int(<b>Parameter 2</b>)</p>                                                                           |
| <b>ISFLOATEQUAL</b>         | <p>The parameters are considered as a float number and evaluated whether both are equal</p> <p>Float(<b>Parameter 1</b>) = Float(<b>Parameter 2</b>)</p>                                                                               |
| <b>ISNOTFLOATEQUAL</b>      | <p>The parameters are considered as a float number and evaluated to see if both are unequal</p>                                                                                                                                        |

|                             |                                                                                                                                                                                                                                |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | Float( <b>Parameter 1</b> ) <> Float( <b>Parameter 2</b> )                                                                                                                                                                     |
| <b>ISLESSTHAN</b>           | <p>The parameters are considered as an int number and evaluated whether parameter 1 is less than parameter 2</p> <p>Int(<b>Parameter 1</b>) &lt; Int(<b>Parameter 2</b>)</p>                                                   |
| <b>ISFLOATLESSTHAN</b>      | <p>The parameters are considered as a float number and evaluated whether parameter 1 is less than parameter 2</p> <p>Float(<b>Parameter 1</b>) &lt; Float(<b>Parameter 2</b>)</p>                                              |
| <b>ISLESSEQUAL</b>          | <p>The parameters are considered as an int number and evaluated whether parameter 1 is less than or equal to parameter 2</p> <p>Int(<b>Parameter 1</b>) &lt;= Int(<b>Parameter 2</b>)</p>                                      |
| <b>ISFLOATLESSEQUAL</b>     | <p>The parameters are considered as a float number and evaluated whether parameter 1 is less than or equal to parameter 2</p> <p>Float(<b>Parameter 1</b>) &lt;= Float(<b>Parameter 2</b>)</p>                                 |
| <b>ISGREATERTHAN</b>        | <p>The parameters are considered as an int number and evaluated whether parameter 1 is greater Parameter 2</p> <p>Int(<b>Parameter 1</b>) &gt; Int(<b>Parameter 2</b>)</p>                                                     |
| <b>ISFLOATGREATERTHAN</b>   | <p>The parameters are considered as a float number and evaluated whether parameter 1 is greater Parameter 2</p> <p>Float(<b>Parameter 1</b>) &gt; Float(<b>Parameter 2</b>)</p>                                                |
| <b>ISGREATEREQUAL</b>       | <p>The parameters are considered as an int number and evaluated whether parameter 1 is greater than or equal to parameter 2</p> <p>Int(<b>Parameter 1</b>) &gt;= Int(<b>Parameter 2</b>)</p>                                   |
| <b>ISFLOATGREATEREQUAL</b>  | <p>The parameters are considered as a float number and evaluated whether parameter 1 is greater than or equal to parameter 2</p> <p>Float(<b>Parameter 1</b>) &gt;= Float(<b>Parameter 2</b>)</p>                              |
| <b>ISLENGTHGREATERTHAN</b>  | <p>It is checked whether the string length of parameter 1(<i>number of characters</i>) is greater than the specification in parameter 2</p> <p>String(<b>Parameter 1</b>).Length &gt; Int(<b>Parameter 2</b>)</p>              |
| <b>ISLENGTHGREATEREQUAL</b> | <p>It is checked whether the string length of parameter 1(<i>number of characters</i>) is greater than or equal to the specification in parameter 2</p> <p>String(<b>Parameter 1</b>).Length &gt;= Int(<b>Parameter 2</b>)</p> |

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|                          |                                                                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISLENGTHLESSTHAN</b>  | It is checked whether the string length of parameter 1( <i>number of characters</i> ) is less than that specified in parameter 2<br><br>String( <b>Parameter 1</b> ).Length < Int( <b>Parameter 2</b> )                                                       |
| <b>ISLENGTHLESSEQUAL</b> | It is checked whether the string length of parameter 1( <i>number of characters</i> ) is less than or equal to the specification in parameter 2<br><br>String( <b>Parameter 1</b> ).Length <= Int( <b>Parameter 2</b> )                                       |
| <b>STARTSWITH</b>        | It is checked whether <b>parameter 1</b> begins with the specification in <b>parameter 2</b>                                                                                                                                                                  |
| <b>NOTSTARTSWITH</b>     | It is checked whether <b>parameter 1</b> does not start with the specification in <b>parameter 2</b>                                                                                                                                                          |
| <b>ENDSWITH</b>          | It is checked whether <b>parameter 1</b> ends with the specification in <b>parameter 2</b>                                                                                                                                                                    |
| <b>NOTENDSWITH</b>       | It is checked whether <b>parameter 1</b> does not end with the specification in <b>parameter 2</b>                                                                                                                                                            |
| <b>CONTAINS</b>          | Checking whether <b>parameter 2</b> occurs ( <i>contains</i> ) in <b>parameter 1</b>                                                                                                                                                                          |
| <b>CONTAINSNOT</b>       | It is checked whether <b>parameter 2</b> does not occur ( <i>contains</i> ) in <b>parameter 1</b>                                                                                                                                                             |
| <b>ISEMPTY</b>           | It is checked whether the <b>data field</b> ( <i>parameter 1</i> ) is empty. The data field is specified without {}.<br>Example: <WHEN="[ISEMPTY~ITEMNO]">                                                                                                    |
| <b>ISNOTEMPTY</b>        | It is checked whether the <b>data field</b> ( <i>parameter 1</i> ) is not empty. The data field is specified without {}.<br>Example: <WHEN="[ISNOTEMPTY~ITEMNO]">                                                                                             |
| <b>ISVALUEEMPTY</b>      | Checking whether <b>parameter 1</b> is empty                                                                                                                                                                                                                  |
| <b>ISNOTVALUEEMPTY</b>   | Checking whether <b>parameter 1</b> is not empty                                                                                                                                                                                                              |
| <b>ISFILE</b>            | It is checked whether the file specified in <b>parameter 1</b> exists                                                                                                                                                                                         |
| <b>ISNOTFILE</b>         | It is checked whether the file specified in <b>parameter 1</b> does not exist                                                                                                                                                                                 |
| <b>ISDATEEQUAL</b>       | It is checked whether the date in <b>parameter 1</b> is equal to the date in <b>parameter 2</b> . Both parameters must represent a valid date. Macros can be used to work with the current date.<br><br>Example:<br><WHEN="[ISDATEEQUAL~%%TODAY%~{HOLIDAY}]"> |

|                           |                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISDATENOTEQUAL</b>     | <p>It is checked whether the date in <b>parameter 1</b> is not equal to the date in <b>parameter 2</b>. Both parameters must represent a valid date. Macros can be used to work with the current date.</p> <p>Example:<br/> <code>&lt;WHEN="[ISDATENOTEQUAL~%%TODAY%%~{HOLIDAY}]"&gt;</code></p>                                 |
| <b>ISDATEGREATERTHAN</b>  | <p>It is checked whether the date in <b>parameter 1</b> is greater (<i>later</i>) than the date in <b>parameter 2</b>. Both parameters must represent a valid date. Macros can be used to work with the current date.</p> <p>Example:<br/> <code>&lt;WHEN="[ISDATEGREATERTHAN~%%TODAY%%~2023-01-01]"&gt;</code></p>              |
| <b>ISDATELESSTHAN</b>     | <p>It is checked whether the date in <b>parameter 1</b> is less than (<i>earlier</i>) the date in <b>parameter 2</b>. Both parameters must represent a valid date. Macros can be used to work with the current date.</p> <p>Example:<br/> <code>&lt;WHEN="[ISDATELESSTHAN~%%TODAY%%~2023-12-31]"&gt;</code></p>                  |
| <b>ISDATEGREATEREQUAL</b> | <p>It is checked whether the date in <b>parameter 1</b> is greater than (<i>later</i>) or equal to the date in <b>parameter 2</b>. Both parameters must represent a valid date. Macros can be used to work with the current date.</p> <p>Example:<br/> <code>&lt;WHEN="[ISDATEGREATEREQUAL~%%TODAY%%~2023-01-01]"&gt;</code></p> |
| <b>ISDATELESSEQUAL</b>    | <p>It is checked whether the date in <b>parameter 1</b> is less than (<i>earlier</i>) or equal to the date in <b>parameter 2</b>. Both parameters must represent a valid date. Macros can be used to work with the current date.</p> <p>Example:<br/> <code>&lt;WHEN="[ISDATELESSEQUAL~%%TODAY%%~2023-12-31]"&gt;</code></p>     |
| <b>ISINLIST</b>           | <p>Checks whether <b>parameter 1</b> is included in the list of other <b>parameters</b>.</p> <p>Example:<br/> <code>&lt;WHEN="[ISINLIST~Andreas~Peter~Andreas~Marc]"&gt;</code><br/> Result is <b>TRUE</b> (<i>Andreas is included in the list</i>)</p>                                                                          |
| <b>ISNOTINLIST</b>        | <p>It is checked whether <b>parameter 1</b> is not included in the list of other <b>parameters</b>.</p>                                                                                                                                                                                                                          |

|                          |                                                                                                                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | Example:<br><code>&lt;WHEN="[ISNOTINLIST~Eric~Peter~Andreas~Marc]"&gt;</code><br>Result is <b>TRUE</b> ( <i>Eric is not in the list</i> )                                                                                                             |
| <b>CONTAINSINLIST</b>    | It is checked whether one of the <b>parameters</b> is contained in <b>parameter 1</b> .<br><br>Example:<br><code>&lt;WHEN="[CONTAINSINLIST~Andreas~Pe~An~Ma]"&gt;</code><br>Result is <b>TRUE</b> ( <i>An is contained in Andreas</i> )               |
| <b>CONTAINSNOTINLIST</b> | It is checked whether one of the parameters is not included in <b>parameter 1</b> .<br><br>Example:<br><code>&lt;WHEN="[CONTAINSNOTINLIST~Andreas~Pe~Ab~Ma]"&gt;</code><br>Result is <b>TRUE</b> ( <i>Pe, Ab and Ma are not included in Andreas</i> ) |

## IF

**IF** conditions allow you to execute entire areas in a template only if the condition is met. **IF** is always used in conjunction with **WHEN**. An **IF** condition has an **ELSE** range that is alternatively executed if the condition is not met. An **IF** block is completed with **ENDIF**.

Nested **IF** conditions are possible.

### Example:

```
<CMD="IF"><WHEN=" [ISTAG~NAME] ">
  <CMD="TEXT">...
  ...
<CMD="ELSE">
  <CMD="TEXT">...
  ...
<CMD="ENDIF">
```

## Data fields

In a template line, connected data fields can be accessed with the specification **{data field}**.

### Example:

#### Template:

```
<CMD="TEXT"><WHEN=" [ISNOTEMPTY~PREIS] "><Y="0"><X="0"><WIDTH="50"><HEIGHT="25"><TEXT="{PREIS}"><COLOR="BLACK"><FONT="Calibri"><FONTSIZE="22">
```

Data: `<PREIS="1.99">`

In the template line, **{PRICE}** is replaced with the content from the data (*here 1.99*).

### Formatting data fields

Data fields can be given special formatting. For example, it is possible to display numbers with two decimal places, although the data contains e.g. only **<PRICE="1">** for 1.00 Euro. Furthermore, a division factor can be specified, e.g. to display prices without decimal separators correctly.

To format a data field, the format **{@@Data field|Format specification|Division factor}** is used.

| <i>Format specification</i>               | <i>Explanation</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>0</b>                                  | <p>This digit is always output and, if necessary, output with 0 if this digit does not exist in the data field.</p> <p><u>Beispiele:</u><br/>           Data: <b>&lt;CONTENT="1"&gt;</b><br/>           Format specification: <b>{@@CONTENT 0.0}</b><br/>           Result: <b>1,0</b></p> <p>Data: <b>&lt;CONTENT="1.6789"&gt;</b><br/>           Format specification: <b>{@@ CONTENT  0.00}</b><br/>           Result: <b>1,68</b></p> <p>Data: <b>&lt;CONTENT="16789"&gt;</b><br/>           Format specification: <b>{@@CONTENT 0.00 100}</b><br/>           Result: <b>167,89</b></p> |
| <b>#</b>                                  | <p>This position is only output if it exists in the data field.</p> <p>Data: <b>&lt;CONTENT="1"&gt;</b><br/>           Format specification: <b>{@@CONTENT 0.#}</b><br/>           Result: <b>1</b></p> <p>Data: <b>&lt;CONTENT="1.5"&gt;</b><br/>           Format specification: <b>{@@CONTENT 0.#}</b><br/>           Result: <b>1,5</b></p>                                                                                                                                                                                                                                             |
| <b>L</b> followed by the number of digits | <p>From the data field, the number of characters is output from the left, the rest is omitted.</p> <p>Data: <b>&lt;CONTENT="1.12345"&gt;</b><br/>           Format specification: <b>{@@CONTENT L4}</b><br/>           Result: <b>1.12</b></p>                                                                                                                                                                                                                                                                                                                                              |
| <b>R</b> followed by the number of digits | <p>From the data field, the number of characters is output from the right, the rest is omitted.</p> <p>Data: <b>&lt;CONTENT="1.12345"&gt;</b><br/>           Format specification: <b>{@@CONTENT R4}</b><br/>           Result: <b>2345</b></p>                                                                                                                                                                                                                                                                                                                                             |

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|                                                                    |                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>S followed by the start position ,<br/>number of characters</i> | <p>Prints a <b>substring</b> of the data field.</p> <p>The first parameter determines the starting position starting with <b>0</b> for the first character</p> <p>The second parameter specifies the number of characters to be output from the start position.</p> <p>Data: &lt;CONTENT="1.12345"&gt;<br/>Format specification: {<b>@@CONTENT S2,3</b>}<br/>Result: <b>123</b></p> |
| <b>CEILING</b>                                                     | <p>The value is rounded up to the nearest integer</p> <p>1.3 = 2<br/>1.9 = 2</p>                                                                                                                                                                                                                                                                                                    |
| <b>FLOOR</b>                                                       | <p>The value is rounded down to the nearest integer</p> <p>1.3 = 1<br/>1.9 = 1</p>                                                                                                                                                                                                                                                                                                  |

Examples:

&lt;TEXT="{@@PRICE|0.00|100}"&gt;

Content of field **PRICE**: <PRICE="10000">

Result: 100,00

&lt;TEXT="{@@PRICE|0.00}"&gt;

Content of field **PRICE**: <PRICE="1.89654">

Result: 1,90

&lt;TEXT="FLOOR: {@@PRICE|FLOOR}"&gt;

Content Feld **PRICE**: <PRICE="1.89654">

Result: 1