



# HEXAGON

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## Report templates with placeholders

### Form Designer

FAQ handling/configuration  
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## Document History

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# 1 Placeholders in reports

For the creation of report templates, in addition to the standard elements, the Q-DAS Form Designer (Q-FD) provides various special elements.

Standard elements include all elements that are used to display the data collected and evaluated in Q-DAS applications. These include the contents of various K fields or graphics, such as value charts or form sheets.

As the name suggests, special elements are used to carry out special tasks. These include the creation of placeholders to print the current window, automatically created tables of contents or links to open files and websites.

Report templates are mainly created for specific user groups. Placeholders are available in the Form Designer (Q-FD) if you wish to use user-group-independent report templates.

This manual describes the handling of different placeholders for printing current graphics, the use of user-group-independent report templates with selection windows and the configuration of placeholders in the Form Designer (Q-FD).



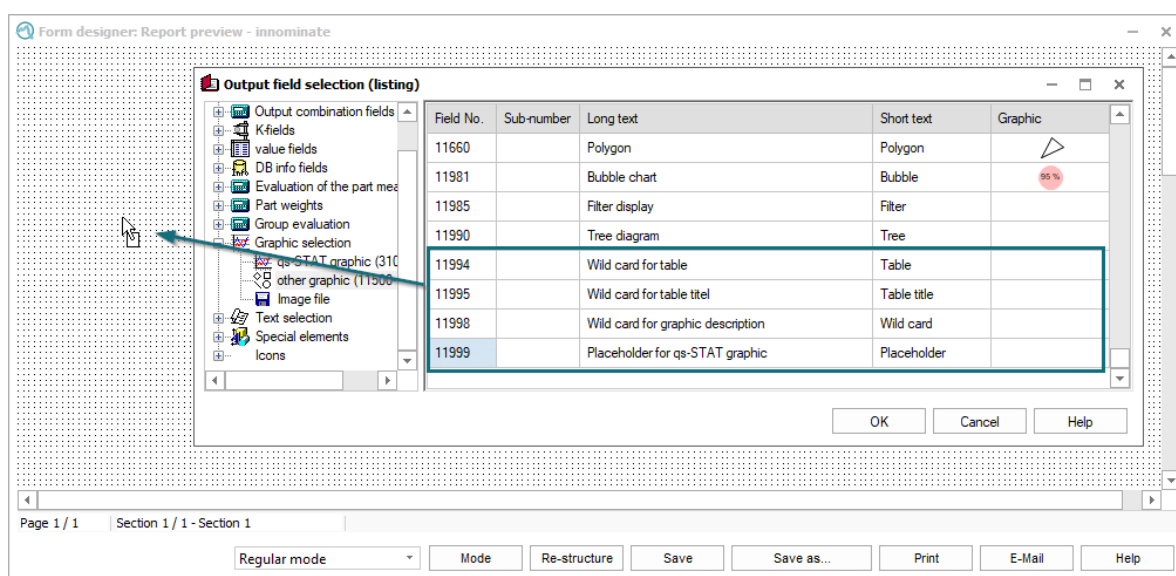
A separate manual explains the basic operation of the Q-DAS Form Designer (Q-FD). This can be found on our homepage at <https://www.q-das.com/en/service/support-hotline#faqs>

## 2 Placeholders for printing the current window

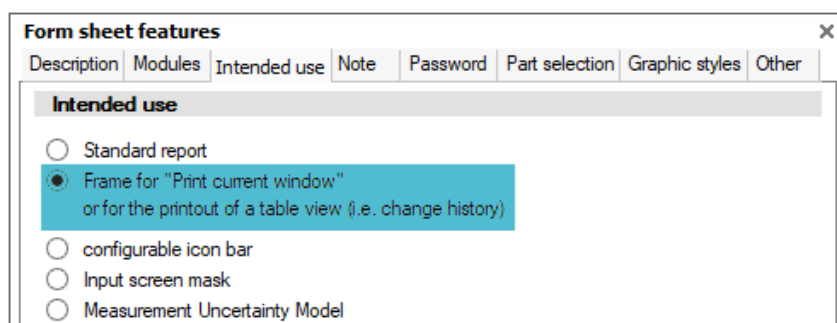
The "Output field selection (listing)" in the Form Designer (Q-FD) offers various elements as placeholders for printing the current window. These are:

- Placeholders for printing tables displaying various protocol files.
- Placeholders for printing graphics, such as individual characteristic graphics.

To add a placeholder element, use drag & drop, i.e., drag the desired element from the "Output field selection (listing)" and drop it into the drawing area of the form designer (Q-FD).



In order for the report template to be recognised by the Q-DAS application as a placeholder template, the option "Frame for 'Print current window' or for the printout of a table view (i.e., change history)" must be set under the "Intended use" tab of Form sheet features.

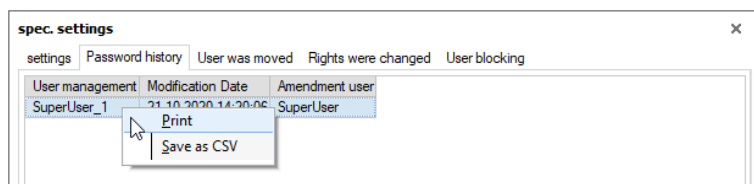


Even though the report templates for printing current table views and qs-STAT-graphics are created in the same way, they are handled differently when printing. The differences are described in the following sub-chapters.

## 2.1 Placeholder for table view

The placeholders for table views are used to print out report information displayed in table form. This includes the amendment history of a data set and the password history in user administration.

If this type of report information is printed in the standard configuration, the printout only contains the contents of the table view.



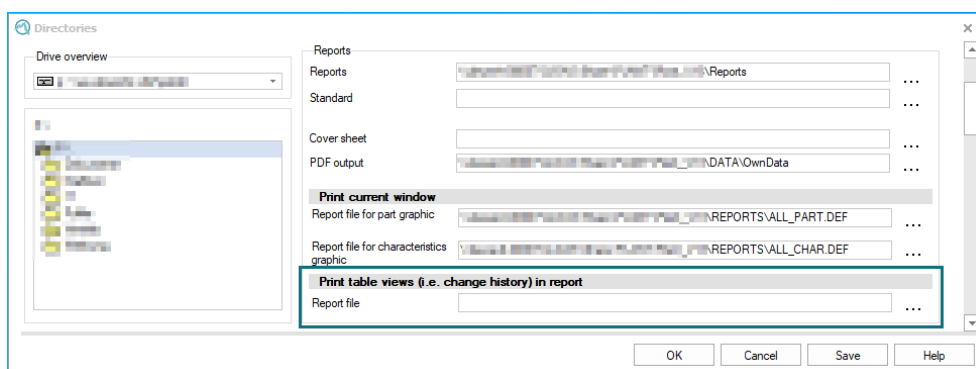
Printout of password history in standard configuration.

Password history		
User management	Modification Date	Amendment user
SuperUser_1	21.10.2020 14:20:06	SuperUser

If further information is required on the printed report, a report template with the desired elements and an additional placeholder for the table view can be created. For this purpose, two elements are available in the Form Designer under "Other graphics" in the group "Graphic selection" of the "Output field selection (listing)".

- Placeholder for table title (11995)
- Placeholder for table (11994)

To ensure that the correct report template is used when printing protocol information, it must be stored under *File | Configurations | Paths | Print table views (i.e. change history) in report*.



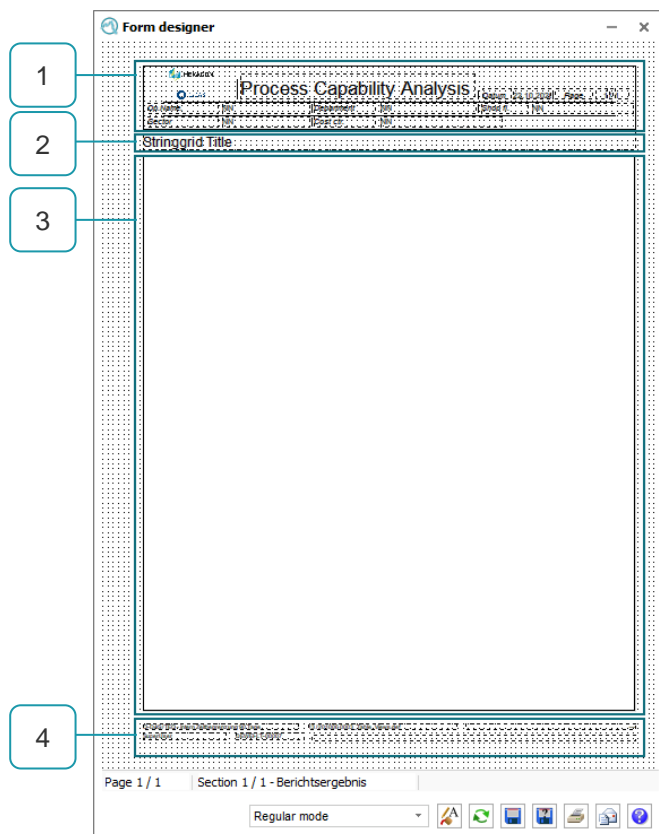
Only one report template can be stored for the table view.

When printing any protocol information, the report template stored under Table view is used.

## Report template with placeholders for protocol information - Example

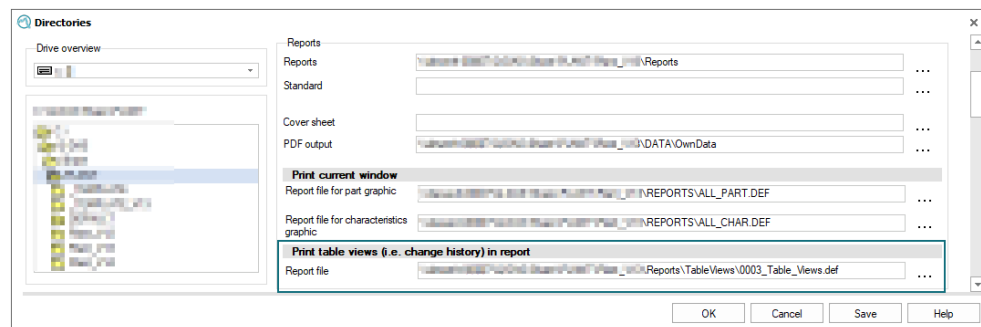
In the following, the printout of the password history and the printout of changes to a data set are explained using a report template with placeholders for table view.

The report template used in this example is part of the standard configuration. The file "0003\_Table\_Views.def" consists of header and footer information, a placeholder for the table titles and a placeholder for the table display.

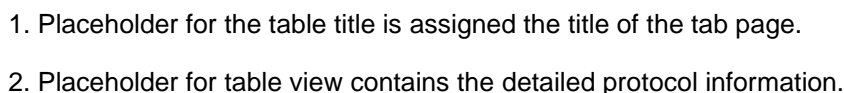
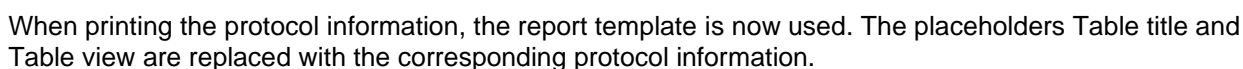
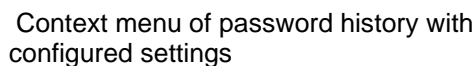


1. Header with different output points
2. Placeholder for table title
3. Placeholder for table view
4. Footer with different output points

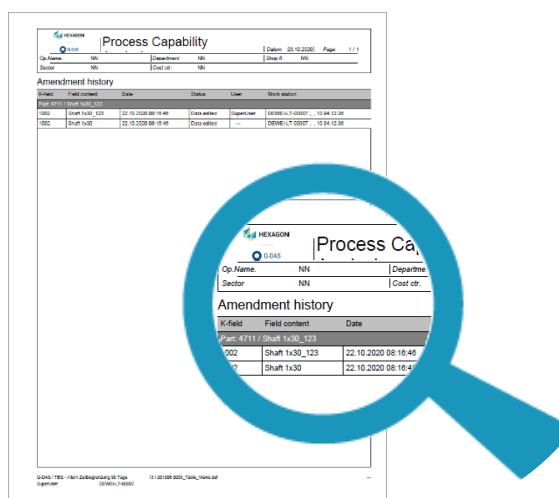
For the printing of table views containing protocol information, the report template is stored under *File / Configurations / Paths / Print table views (i.e. change history) in report*.



Context menu of password history with standard settings



Printout of "Amendment history" protocol

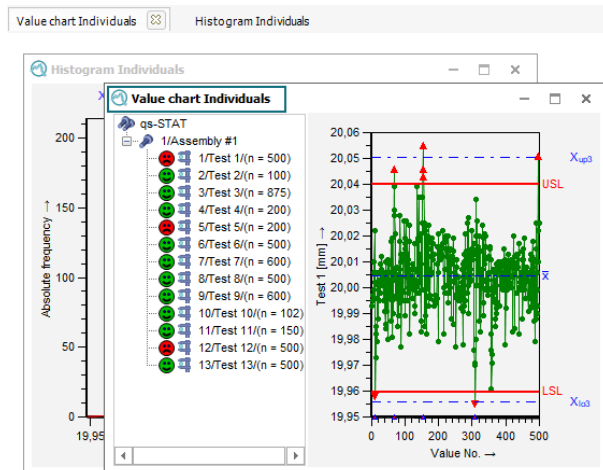




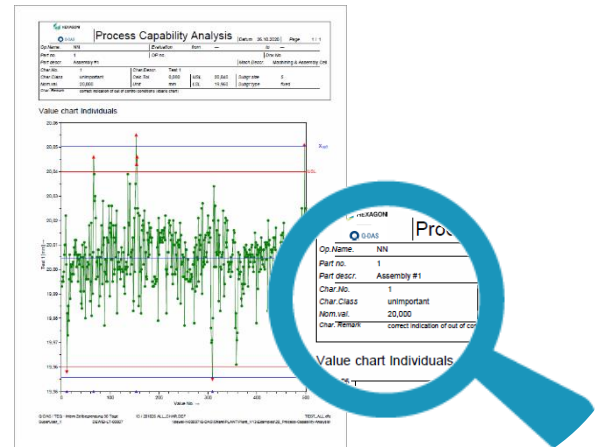
## 2.2 Placeholder for graphic

The placeholders "qs-STAT-Graphic" allow you to print different Q-DAS graphics with part or characteristic information with the same report template. Before printing, the focus is placed on the desired graph.

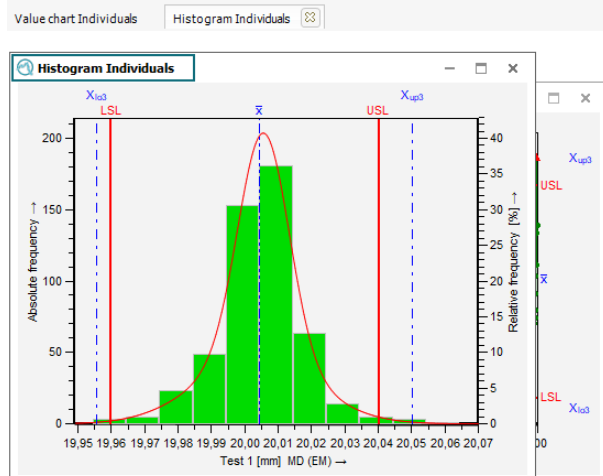
Focus on graphic "Value chart Individuals"



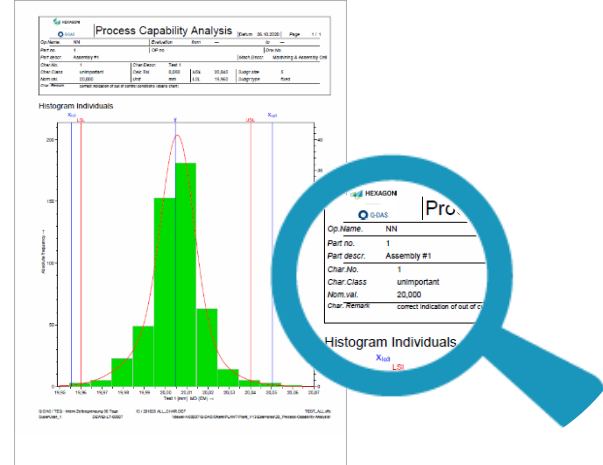
Printout with report template "ALL\_CHAR.DEF"



Focus on the "Histogram Individuals" graphic



Printout with report template "ALL\_CHAR.DEF"



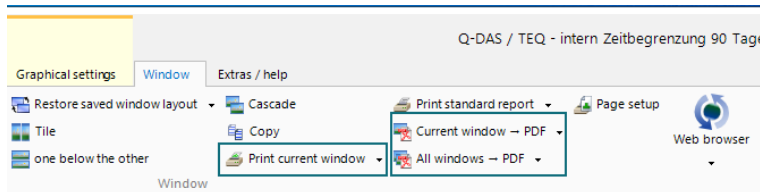
## Placeholder elements in the Form Designer

For the creation of placeholders, two elements are available in the Form Designer under "Other graphics" in the group "Graphic selection" of the "Output field selection (listing)".

- Placeholder for the graphic description (11998) - graphic title
- Placeholder for the graphic description (11999) - graphic contents

## Replacing the placeholder with a current graphic in a report

While only the currently active graphic is used when printing to a physical printer, a PDF printout offers the possibility to print all the inserted graphics in a report. The buttons for printing the current graphics are located in the ribbon under the "Window" tab.



 Print the current graphic on a standard printer.

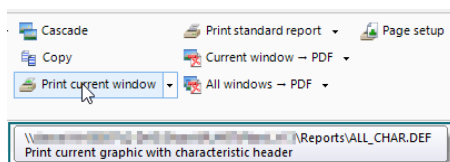
 Save the current graphic as a PDF-printout.

 Save all open graphics as a PDF-printout (one page per graphic).

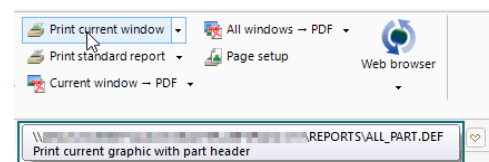
When the buttons are pressed directly, standard report templates stored under "Paths" in the window area "Print current window" are used for printing. If no standard report templates are configured, the current graphic is printed in full-page format. In the standard configuration, different report templates are used for graphics with part information and for graphics with characteristic information.

If you move the cursor over one of the icons for printing current graphics, the path of the configured standard report template is displayed as a hint.

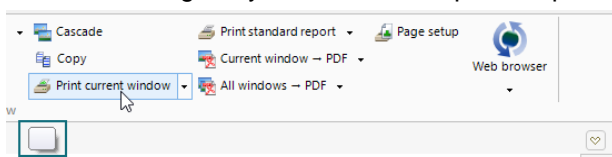
Text with standard configuration for active graphic "Value chart Individuals".



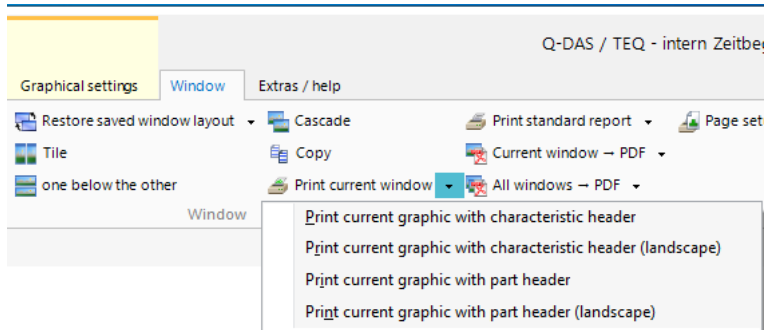
Text for active graphic "Overview parts / characteristics".



Text for missing entry in a standard report template under "Paths".



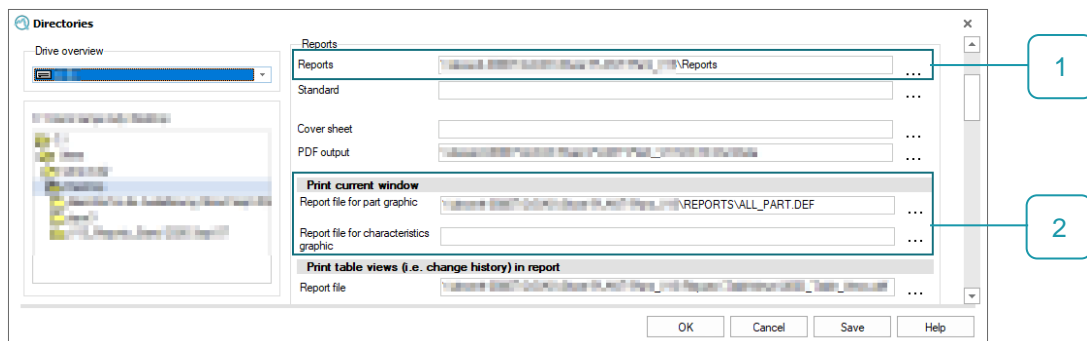
If a specific report template is to be used for printing, it can be selected via the selection menu (pull-down menu). In a standard version, four different report templates are available for printing current graphics.



In the pull-down menu, all report templates that are available in the report template directory and have the option "Frame for 'Print current window' or for the printout of a table view (i.e. change history)" activated in Form sheet features are listed.

## Configuring paths for report templates

The report path configuration dialogue is accessed via *File | Configurations | Paths*.



1. Path to the directory.

2. Paths to the standard report templates with part and characteristic information for printing current graphics.



If graphics with part information and graphics with characteristic information are loaded, the same standard report template is used for all graphics when the "All windows → PDF" button is pressed directly. The selection corresponds to the last selected, active graphic.

If reports with placeholders are applied to listable graphics with continuation pages, only the currently active part is printed.

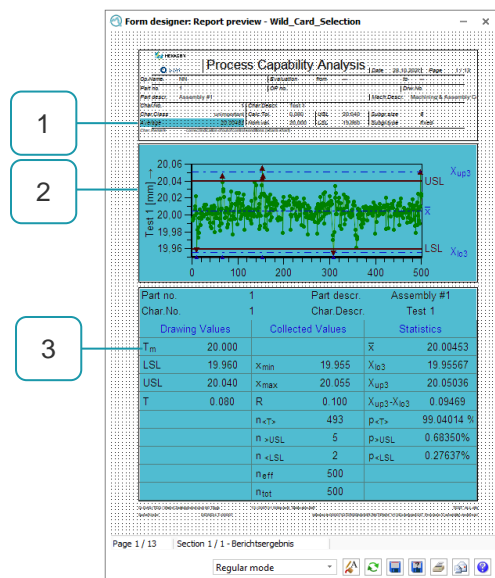
Configurations made under "Area" in the "Window" tab normally only affect the textual and graphical displays of windows. This configuration does not affect the selection of graphics to be printed in reports with placeholders.

### 3 Report templates with selection windows

For the creation of user-group-independent report templates, the Form Designer (Q-FD) offers the option of displaying a selection list for the selection of output or key fields as well as qs-STAT-graphics before the report is created. When printing a report, the selected elements are used.

#### Using a report template with a selection window - example

The following explains how to use a report template to obtain reports with different types of content. The report template used in this example is not part of the standard configuration. The configuration of individual placeholders for the selection list is explained in the course of this document. The report template contains an output point placeholder in the header (1), a placeholder for the individual characteristic graphic (2) and a placeholder for the form sheet (3).



Im Formulardesigner wurden folgende Ausgabepunkte und Grafiken für diese Berichtsvorlage konfiguriert

1. Content of the placeholder for output points

#### Output Points

- ☒ Average
- ☐ Average of Averages
- ☐ Average of Median values
- ☐ Average of Ranges

2. Content of the placeholder for the individual characteristic graphic

#### Individual Characteristic Graphs

- ☒ Value chart
- ☐ Deviation from target value
- ☐ Histogram

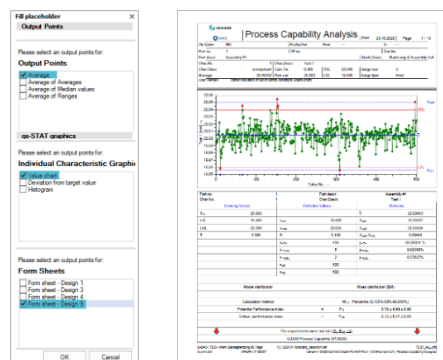
3. Content of the placeholder for form sheets

#### Form Sheets

- ☐ Form sheet - Design 1
- ☐ Form sheet - Design 3
- ☐ Form sheet - Design 4
- ☒ Form sheet - Design 9

When printing, the selected elements now determine the contents of a report.

First selection combination with corresponding report



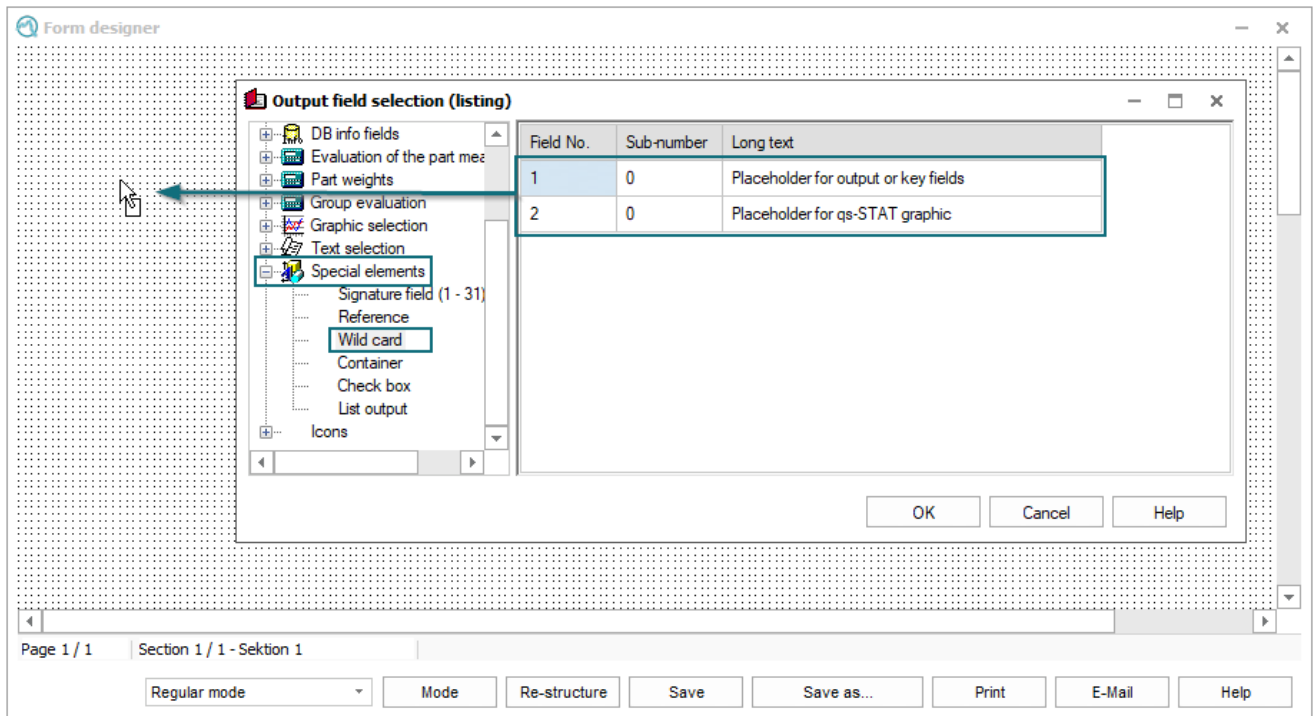
Second selection combination with corresponding report



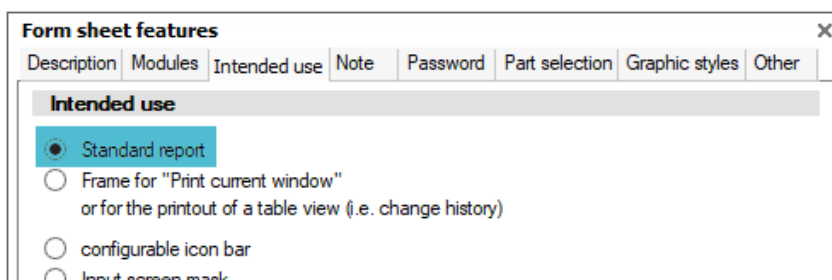
Two elements are available in the Form Designer for creating placeholders with selection windows.

- Placeholder for output or key fields
- Placeholder for qs-STAT-graphic

To add a placeholder element, use drag & drop, i.e. drag the desired element from the special element group of the "Output field selection (listing)" and drop it into the drawing area of the Form Designer (Q-FD).

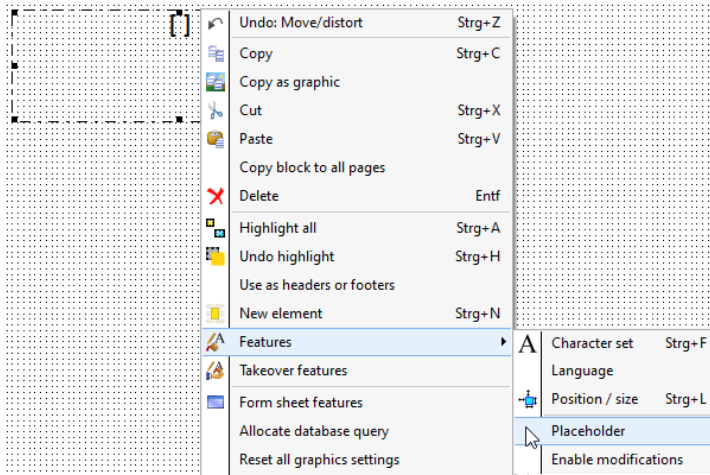


In contrast to the report templates with placeholder for the current graphic, the report templates with selection lists are "standard" report templates. Therefore, for report templates of this type, the option "Standard report" must be set under "Intended use" in the Form sheet features.

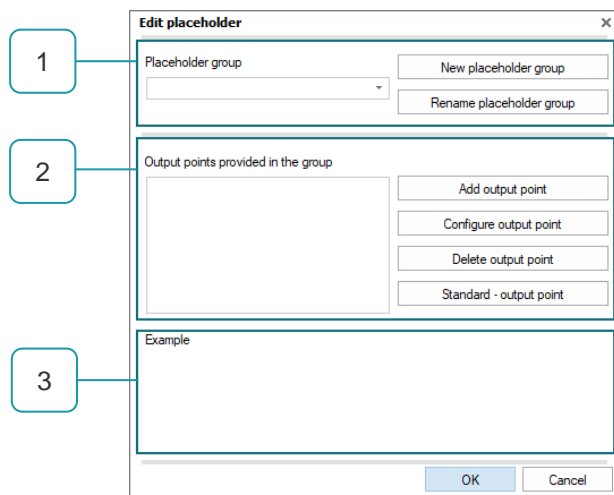


### 3.1 Configuration of placeholders for output or key fields

The configuration of output or key fields as placeholders is done via the "Edit placeholder" dialogue. This is accessed via the context menu of the element by selecting "Placeholder".



The "Edit Placeholder" dialogue consists of three window areas.



#### 1. Placeholder group

To ensure that the output and key fields are listed together in the selection window for this placeholder, a group must first be defined. If placeholder groups with fields already exist in the current report template, the desired placeholder group for this placeholder can be selected as default by selecting the group name.

#### 2. Output points provided in the group

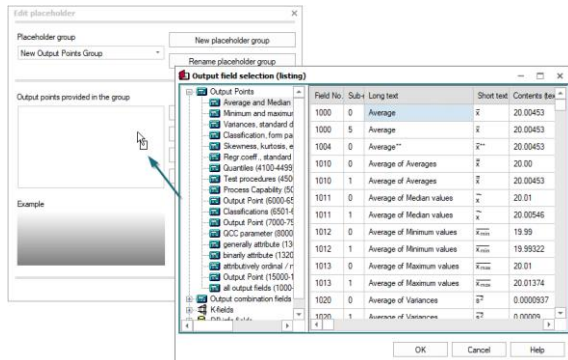
In this area, the output and key fields belonging to the selected placeholder group are defined and configured. The list corresponds to the selection list that is offered before the report is printed. Each element can be configured separately.

#### 3. Preview

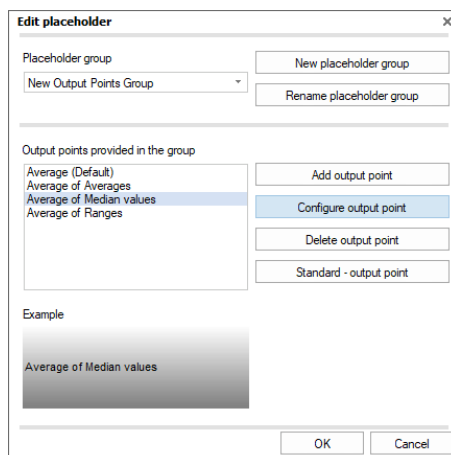
If an output or key field is selected in the area "Output points provided in the group" (2), the content of the field is displayed in the preview according to the configuration.

## Editing the content of the "Output / key fields" placeholder group

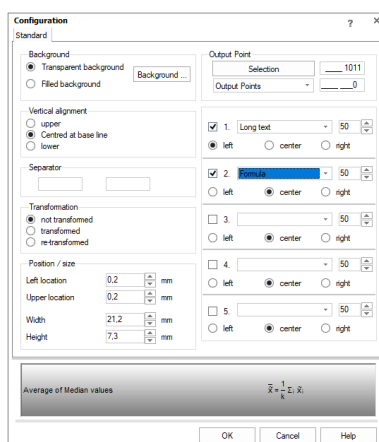
To add an output or key field, use drag & drop, i.e., drag the desired element from the "Output field selection (listing)" and drop it into "Output points provided in the group" (2).



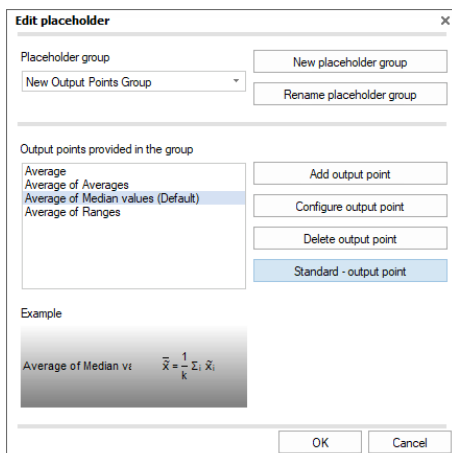
To configure an output or key field, it is first marked and the configuration dialogue is then accessed via the "Configure output point" button.



## Configuration dialogue of the output or key fields



The marked entry is set as default in the selection list via the button "Standard - output point".



**Edit placeholder**

Placeholder group: New Output Points Group

Buttons: New placeholder group, Rename placeholder group

Output points provided in the group:

- Average
- Average of Averages
- Average of Median values (Default)
- Average of Ranges

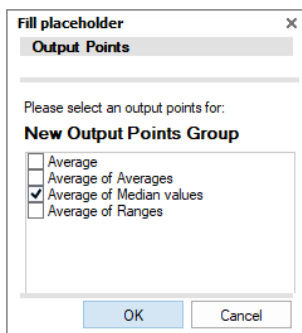
Buttons: Add output point, Configure output point, Delete output point, Standard - output point

Example:

Average of Median values:  $\bar{x} = \frac{1}{k} \sum_{i=1}^k \bar{x}_i$

Buttons: OK, Cancel

Selection list with output field "Average of Median values" as default.



**Fill placeholder**

**Output Points**

Please select an output points for:

**New Output Points Group**

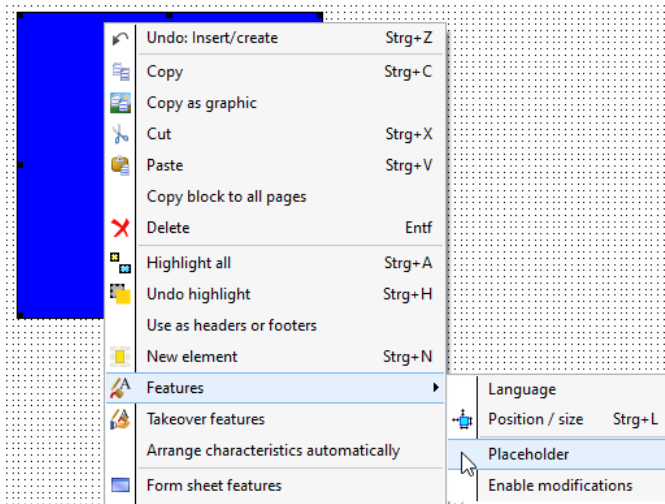
- ☐ Average
- ☐ Average of Averages
- ☒ Average of Median values
- ☐ Average of Ranges

Buttons: OK, Cancel

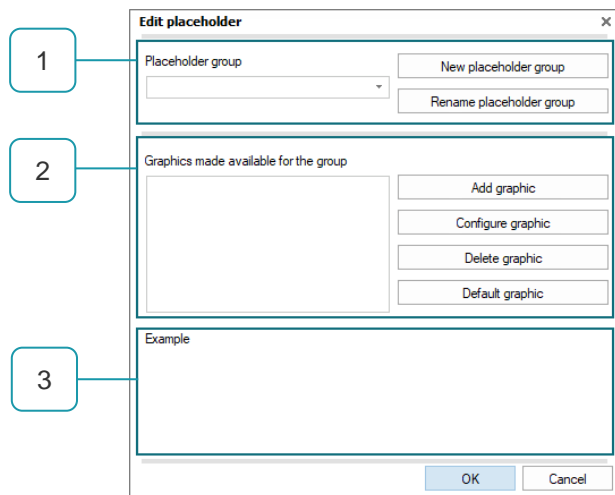


## 3.2 Configuration of placeholders for qs-STAT-graphics

To configure qs-STAT-graphics as placeholders, use the "Edit placeholder" dialogue. This is accessed via the context menu of the element by selecting "Placeholder".



The "Edit Placeholder" dialogue consists of three window areas.



### 1. Placeholder group

A group must first be defined so that qs-STAT-graphics are listed together in the selection window for this placeholder. If placeholder groups with qs-STAT-graphics already exist in the current report template, the desired placeholder group for this placeholder can be selected as default by selecting the group name.

### 2. Graphics made available for the group

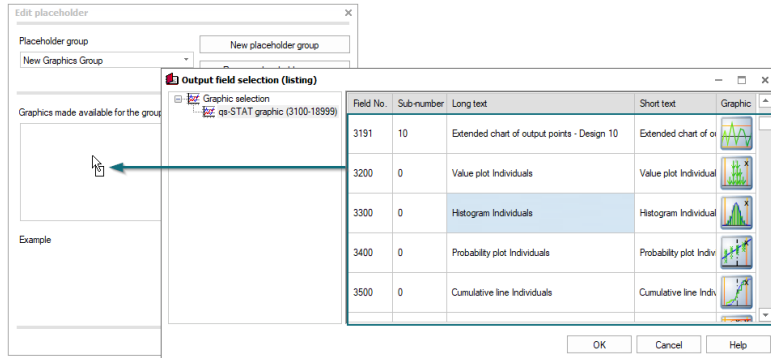
In this area, graphics belonging to the selected placeholder group are defined and configured. The list corresponds to the selection list that is offered before the report is printed. Each element can be configured separately.

### 3. Preview

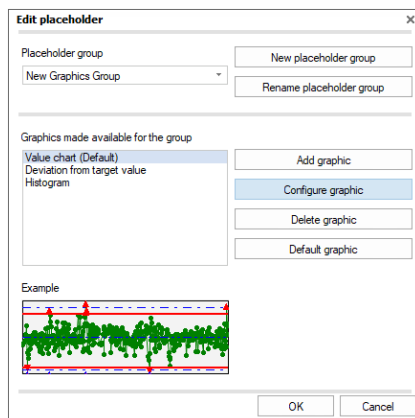
If an output or key field is selected in the area "Graphics made available for the group" (2), the content of the field is displayed in the preview according to the configuration.

## Editing the content of "qs-STAT-graphics" placeholder groups

To add a qs-STAT-graphic, use drag & drop, i.e., drag the desired element from the "Output field selection (listing)" and drop it into the "Graphics made available for the group" (2) area.

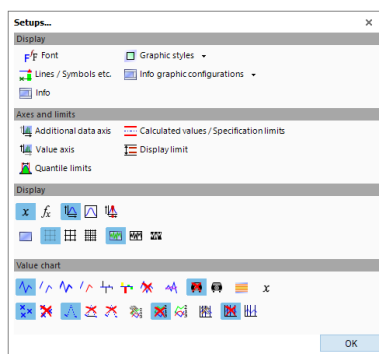


To configure a qs-STAT-graphic, it is first marked in the list and the configuration dialogue is then accessed via the "Configure graphic" button. The qs-STAT-graphics in the application remain unaffected by changes made via this dialogue. The configurations made here are used to create graphics for printing the report.

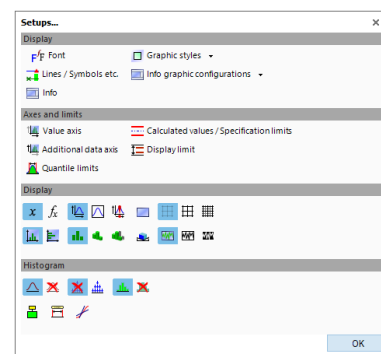


The configuration dialogue of the graphics offers various options and functions. These differ according to the type of graphic.

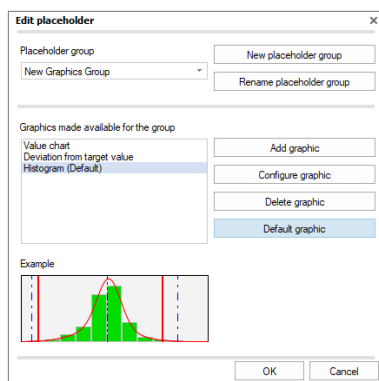
### "Value progression" configuration dialogue



### "Histogram" configuration dialogue



The marked entry is set as default in the selection list via the button "Standard - output point".



Selection list with the "Histogram" qs-STAT-graphic as default.

