HEXAGON

General Settings

Basic handling

FAQ
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Information about this document

Document History

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v-0.35	08.12.2021	SJ	Translation
v-0.37	04.01.2023	SJ	Revision screenshots and wording

HEXAGON

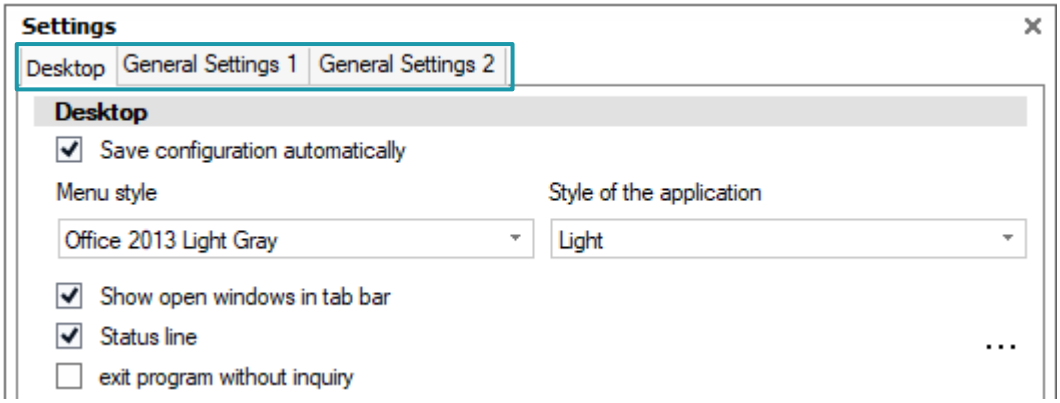
CONTENTS

1 “General settings” dialogue

Basic programme configurations are defined with the help of the options in the "General settings" dialogue. The settings affect the graphic interface, the printing behaviour, the handling of graphics or the text layout.

The dialogue is called up via the menu *File* | *Configuration* | *General Setting*.

The dialogue is divided into three tabs. The configuration possibilities of the individual options are described below.



The configurations in this dialogue are saved differently. Most are user-specific and apply to all modules. This means that a configuration change in the qs-STAT module Sample Analysis also applies to the same user in the qs-STAT module Process Capability Analysis or solara.MP. The options that apply globally for all users and all products are described separately.

The applying of the configuration changes is also different. For some options, the configuration changes are applied immediately. There are also options that are only applied after an application restart or module change.

For reasons of complexity of some options, these are split into separate documentations.

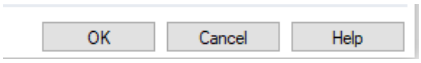
2 “Desktop” tab

The individual options of the "Desktop" tab are explained in the following subchapters.

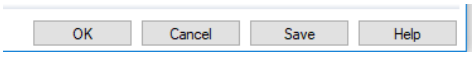
2.1 “Save configuration automatically”

In the application, dialogues are available without and with the "Save" button. This option only has an effect on dialogues that do not contain their own "Save" button.

Dialogue without "Save" button



The option has no effect on the dialogues with the "Save" button.



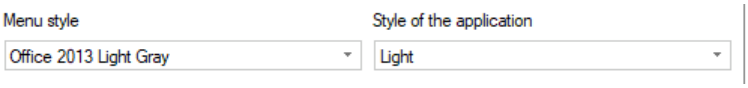
If the option is activated, the settings made are saved as standard settings when the dialogue is exited via the "OK" button. When the programme is started again or a module is changed, the new default settings apply.

If the option is deactivated, the settings made are only temporarily applied when the dialogue is exited via the "OK" button. After an application restart or module change, the temporary configuration is reset to the default settings.

2.2 "Menu style"

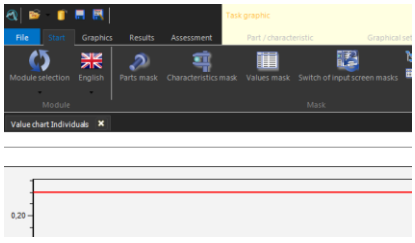
The styles provide centralised creation and management of the design (colours, symbols, etc.) as well as the layout of the information bars for all graphics and dialogues.

The style configured in the standard delivery is "Office 2013 Light Gray" in the application style "Light".

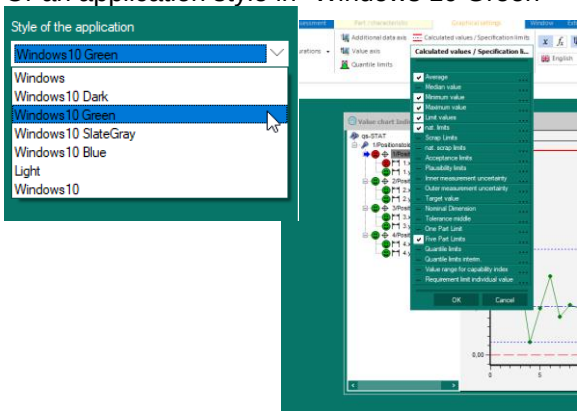


The handling of the styles is described in a separate document. The following is an example of the effect of a style change.

Menu in "Office 2016 Black



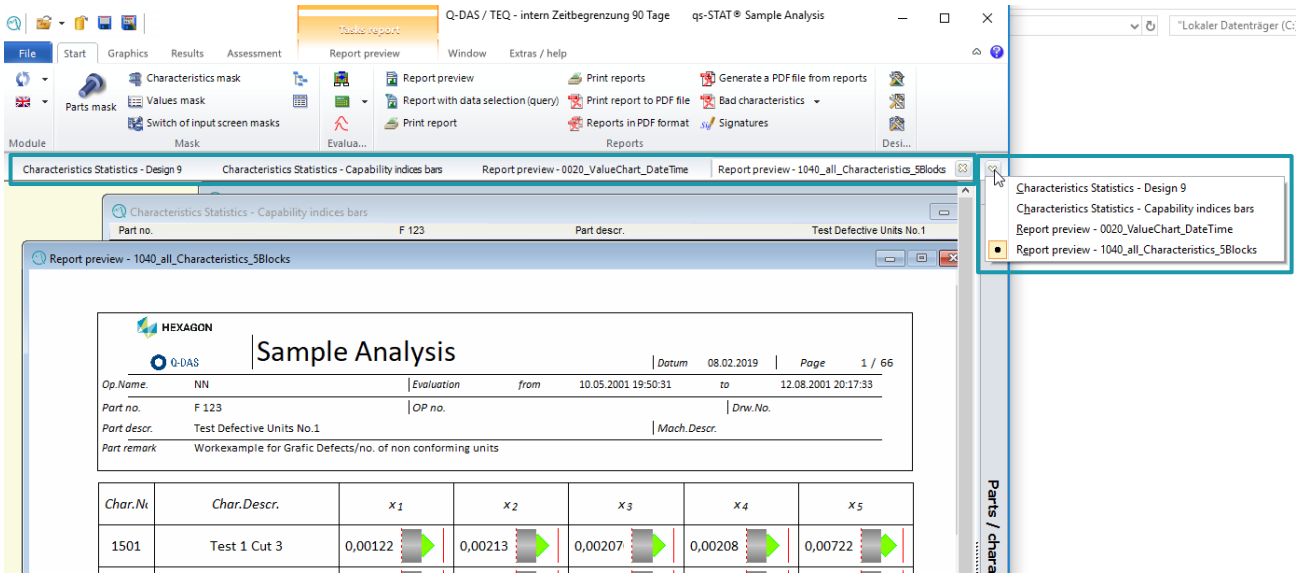
Or an application style in "Windows 10 Green



2.3 "Show open windows in tab bar"

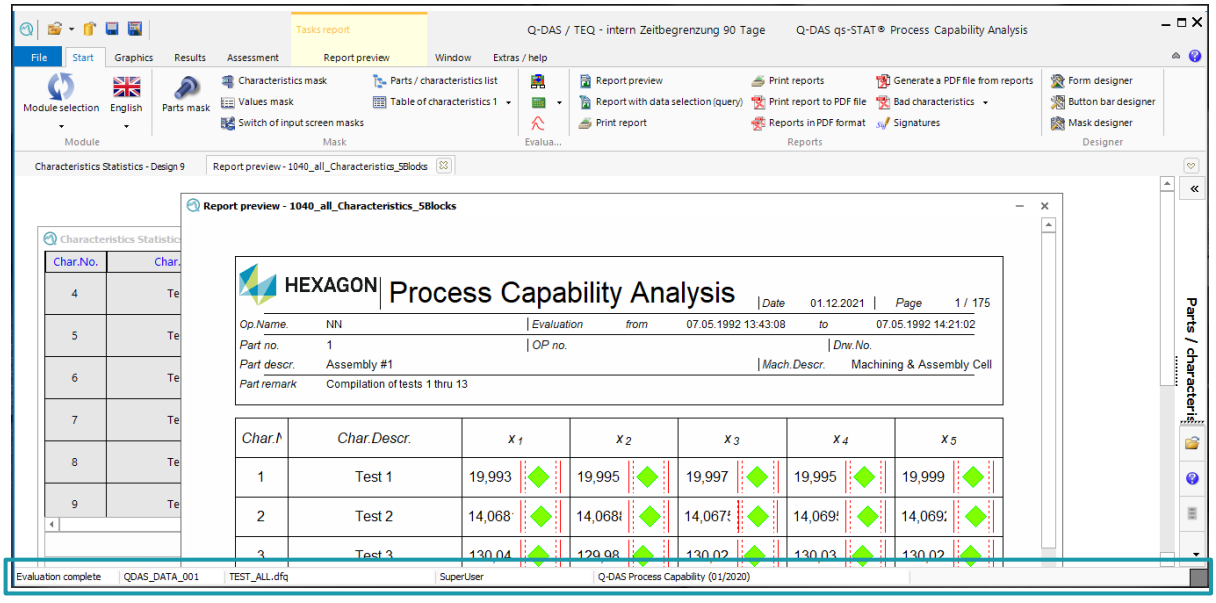
By activating the option, all graphics and windows opened within the application are displayed as individual tabs in the table bar. The table bar is displayed below the ribbon.

The selection of the listed graphics or windows can also be made via the drop-down menu of the table bar.

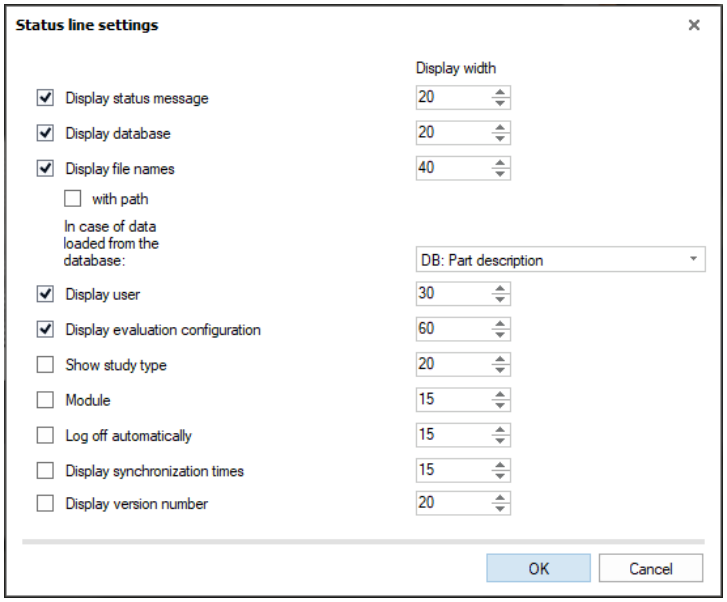


2.4 "Status line"

The status bar displays various information or notifications of the Q-DAS application. The status bar is displayed in the standard delivery.



The status bar is shown or hidden by activating or deactivating the option. The information contained in the status bar is configured via the "Status bar settings" dialogue. This can be called up via the "..." button.



"Display width"

By specifying a display width, the relative width within the status line is specified for the respective element.

"Display status message"

Activating this option displays information on the processing status of the application. This would be, for example, evaluation complete, read data, etc.

"Display database"

Displays the database name (name of the FireDAC connection).

"Display file names"

If this option is activated, the name of the loaded data set is displayed.

> **"with path" (extended option to "Display file names")**
>
> The option "Display file names" shows only the file name when the data set is loaded from a file. With the additionally activated option "with path", the complete path is shown in the status line.
>
> **"In case of data loaded from the database" (extended option to "Display file names")**
>
> If data is loaded from a database, the drop-down menu specifies which information is displayed in the status bar.

When loading more than one data set, either from file or from database, only the information of the first loaded data set is displayed.

"Display user"

By activating the option, the logged-in user is displayed in the status bar.

"Display evaluation configuration"

Displays the name of the selected evaluation strategy.

"Show study type"

If a study type (free text) is specified in the configuration of the evaluation strategy under *Preparation* | *General*, it is shown in the status line when the option is activated.

"Module"

Displays the module name of the loaded product.

"Log off automatically "

If one of the options for automatically logging off a user is active, this option indicates when the session is to be closed. A refresh takes place approx. every 15 seconds. The configuration dialogue for automatically logging off a user can be found under *File* | *Configuration* | *additional settings* | *logout / close automatically*.

"Display synchronization times"

By activating this option, the time to next database synchronisation is displayed in the status bar.

"Display version number"

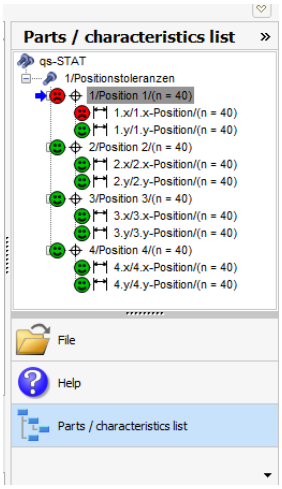
Displays the version number of the application.

2.5 "Exit program without inquiry"

If this option is activated, there is no confirmation prompt when the application is closed.

2.6 "Show assistant"

The assistant helps the user to handle data sets and provides relevant help topics at a glance. The assistant offers the option of selecting the most recently opened files, import functions, relevant help topics, the current "parts / characteristics list" and user-specific button bars. This option can be used to activate or deactivate the assistant.



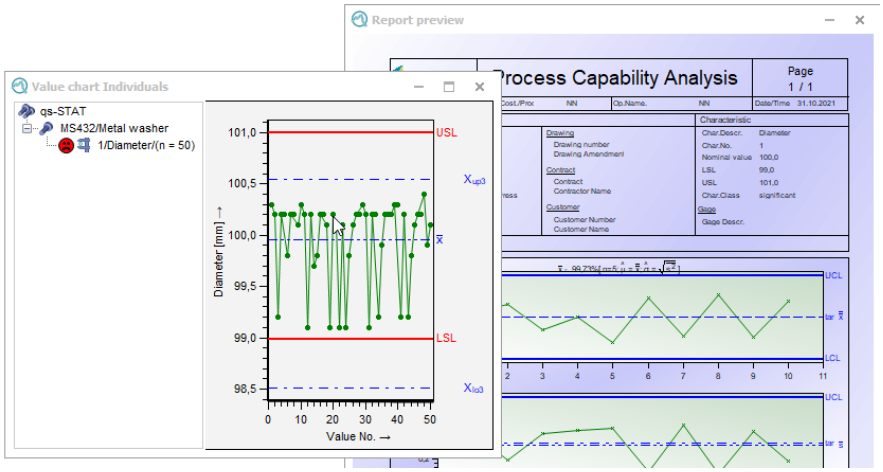
The configuration of the assistant is described in a separate document.

2.7 "Main window colour "

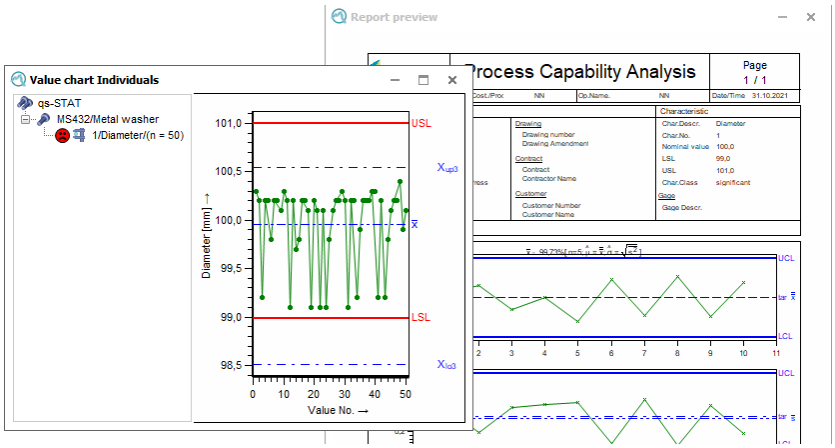
With the introduction of styles in V12, this option is no longer relevant.

2.8 "White background for ..."

In many cases, graphics, but mainly older reports, have a colour background. In the course of time, the colour was increasingly found to be disturbing, but above all a printout of a coloured background in paper form was not desired.



The 3 options can be used to force reports, graphics or just printing with a white background.



It is not recommended to activate the option "White background for graphics". On the one hand, the configuration no longer applies directly in the graphics as since Version 12 the appearances of these are defined via the styles. Furthermore, especially in the O-QIS environment, there are various graphics that give the user information through their background colour, e.g., about the measured value status or the input sequence. This would be disabled by activating the option.

2.9 "Output all measured values for value related report fields"

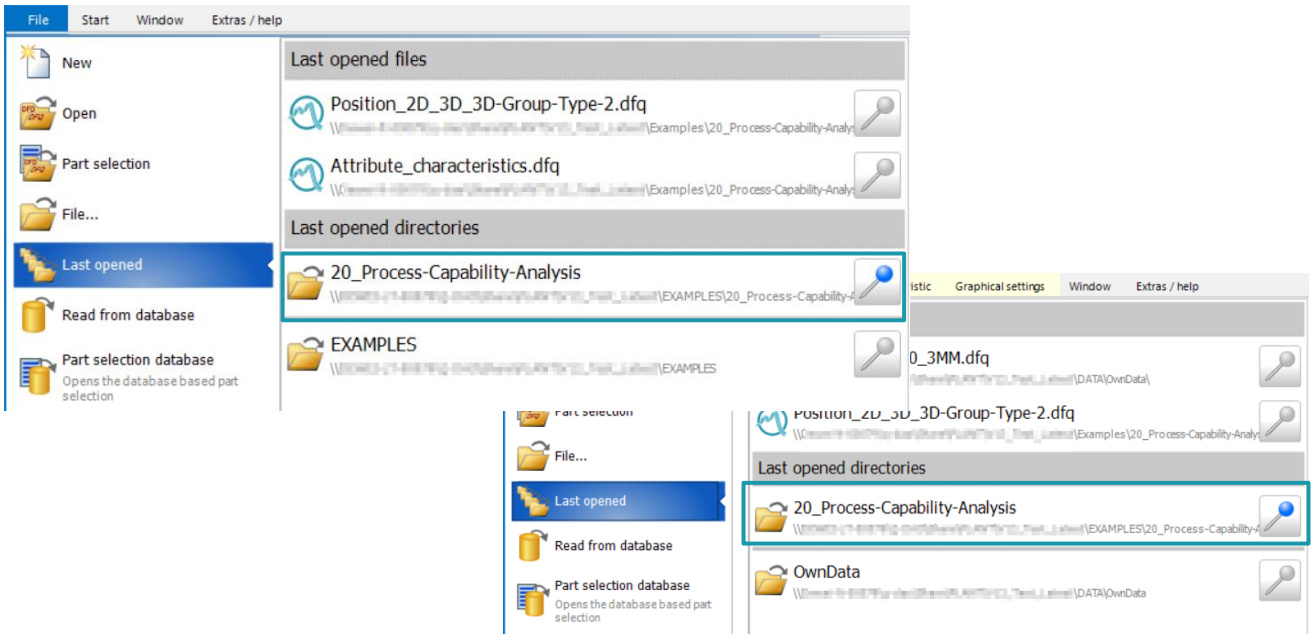
If the option is active, a separate report page is generated for each measured value in report sections with value fields (measured values and additional data).

It is not recommended to activate this option by default, as this setting affects all reports. As described in the Formular and Mask Designer manuals, a corresponding output can also be activated specifically for individual reports independently of this setting.

2.10 "Number of records in file history" and "Number of entries in directory history"

These two options specify how many of the most recently used data files and directories are listed within the history. The history can contain a maximum of 9 entries for files and 5 entries for directories.

In the following, two entries each are configured for files and directories. The history therefore contains two most recently loaded files and two directories. One of the directories is fixed as predefined selection (blue pin). The pinned directory is listed as a historically visited directory. When loading a data set from a new directory, the listing for the pinned directory remains.

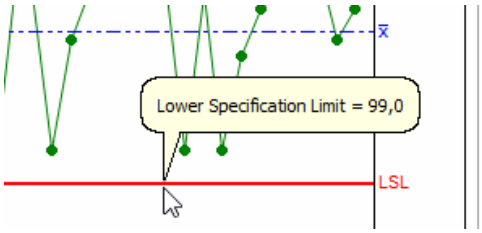


The permanently pinned files and directories count as historically visited.

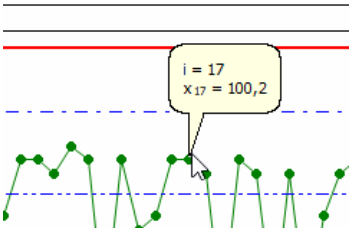
2.11 "Show remark in graphics"

By activating this option, hints are displayed in the graphics at the characteristic and individual values. The display of the note is controlled via the mouse. Below are two examples from the value chart.

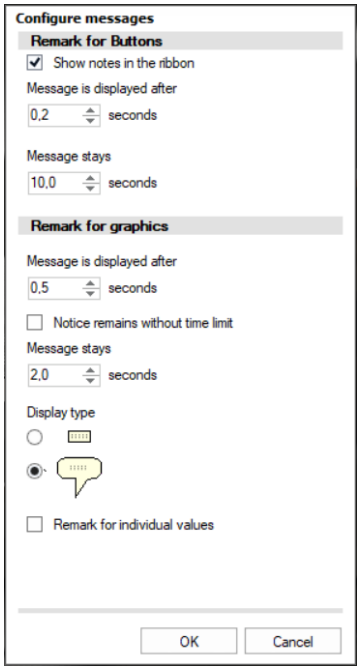
Example of a characteristic value



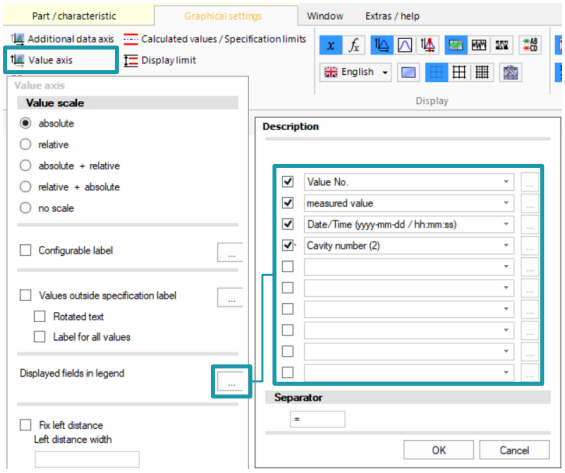
Example of an individual value

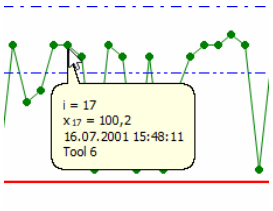


The display and duration of a note are defined via the "Configure messages" dialogue. This can be called up via the "..." button.



Which information is displayed in a note is defined via the graphic settings. Here is an example of the "Value chart" graphic.





The display of notes and all subordinate options are deactivated for the O-QIS products and cannot be activated.

Even though the display of notes is very popular when training begins, the use of these has little meaning for the end user. The meaning of the displayed lines, their value, or a detailed representation of the individuals are known to an experienced user. Therefore, it is not recommended to use them.

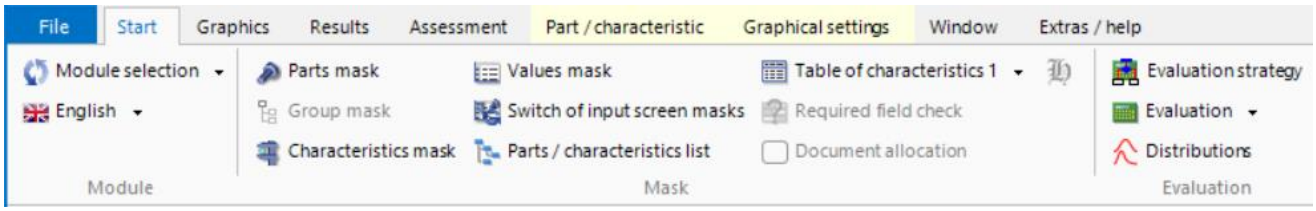
2.12 Non-applicable buttons

The ribbon consists of many context-dependent options and functions. By activating the option "Non-applicable buttons preferably hidden", the ribbon recognises which of the options and functions apply to the currently active window and makes only these available.

Hidden buttons in the "Characteristics" graphic

Hidden buttons in the "pie chart" graphic

If the option to grey out the buttons is activated, the buttons that are not needed are also shown. They are greyed out and have no function. The selection of the displayed buttons corresponds to the activated fields in the configuration of the ribbon.



2.13 "<Alt> MS Office keyboard control"

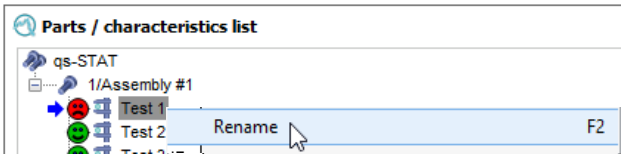
This option activates the obsolete Office keyboard control. It is not advisable to use it. Furthermore, there will be no further development for additional submenu items.

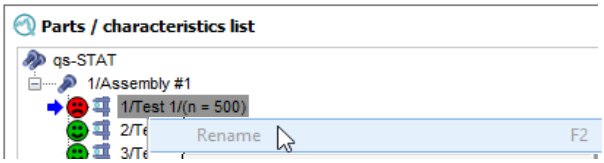
2.14 "Disable on-screen keyboard by default for TabletPC"

If the option is activated and the Q-DAS application detects a tablet mode, the virtual keyboard is automatically displayed when the input fields are used.

2.15 "F2 enables edit mode"

The part, group and characteristic fields can be renamed via the context menu of the "Parts/characteristics list" graphic. This requires that only one field is displayed in the graphic.



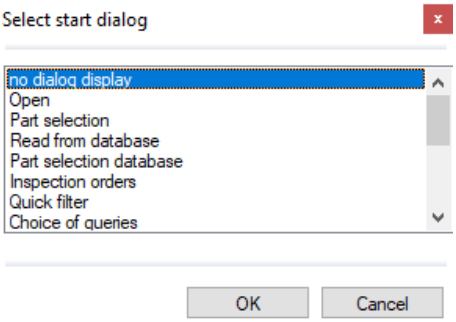


If the option “F2 enables edit mode” is activated, renaming individual fields in the parts/characteristics list is made possible via the [F2] key. If the option is deactivated, the context menu can still be used.

3 “General Settings 1” tab

3.1 "Start Dialogue"

Often the same action is carried out after the application start. By activating the option "Display dialogue after programme start" and specifying an action, the defined action is automatically carried out after the start. An action is specified via the "Select start dialogue" dialogue. This can be called up via the "..." button.



With the additionally activated option "Display dialogue at change of module", the selected action is also carried out when changing modules within the product.

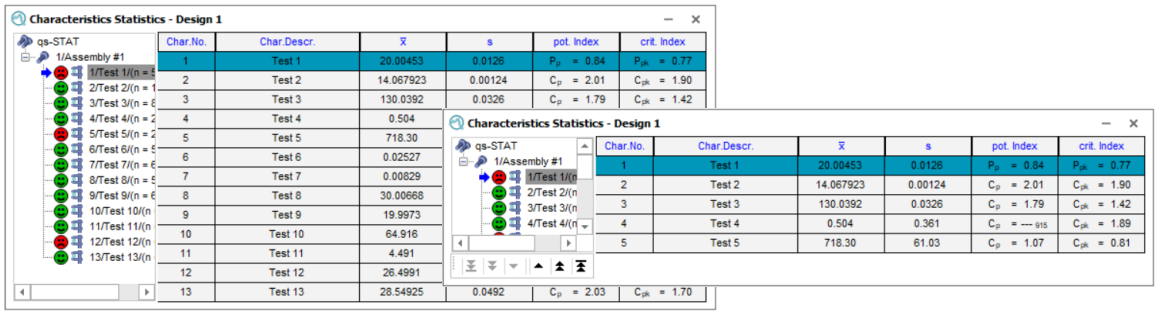
3.2 "Lists"

With the options in this window area, different philosophies for "scrolling" in the list graphics capable of consecutive pages are realised. The list view or the graphic view can be used to display the contents. These are options which are executed in the background. In the actual interface, the activated option is only recognisable by the buttons for scrolling.

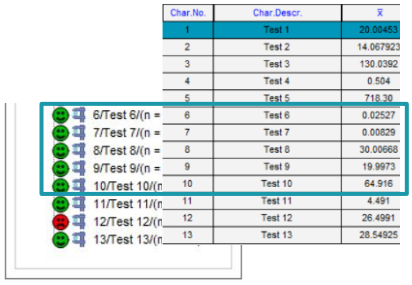
With the option "Scroll list backwards", the listing is leading for scrolling.

If the option "Scroll list forward" is active, the graphic view is used for scrolling.

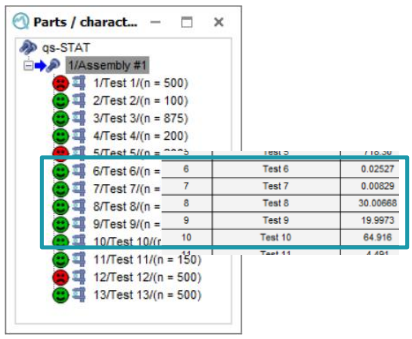
The following is a data set with 13 characteristics. The graphic "Characteristics" is configured to a maximum of five entries per page.



Scroll over the listing.

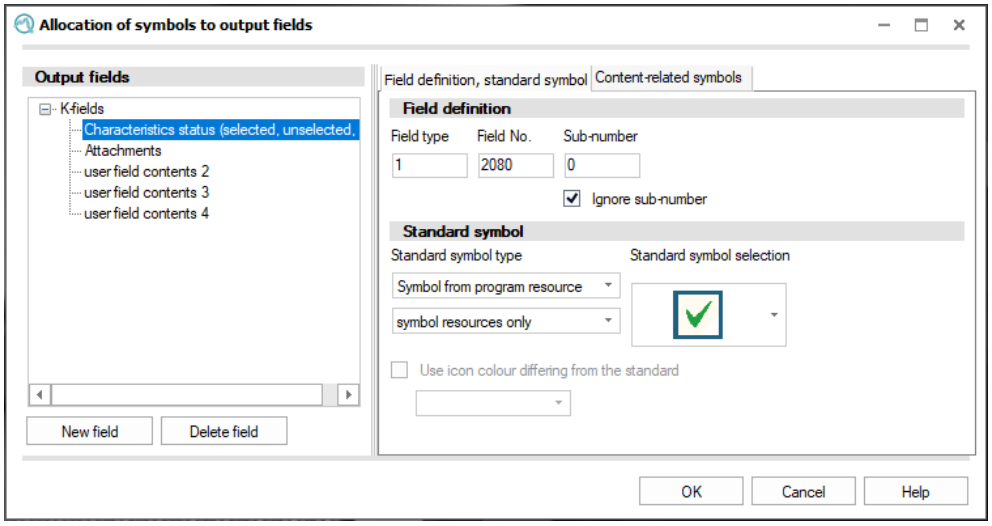


Scroll over the graphic view.

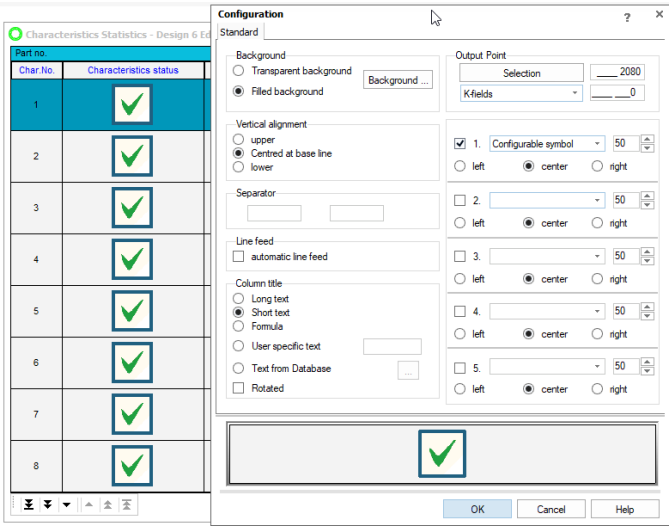


3.3 "Symbol allocation to output fields"

With the symbol allocation, a fixed symbol or a content-dependent symbol can be allocated to an output point such as k-fields or result fields.



When outputting the field, the symbols can be displayed as "Configurable Symbol" in different graphics.



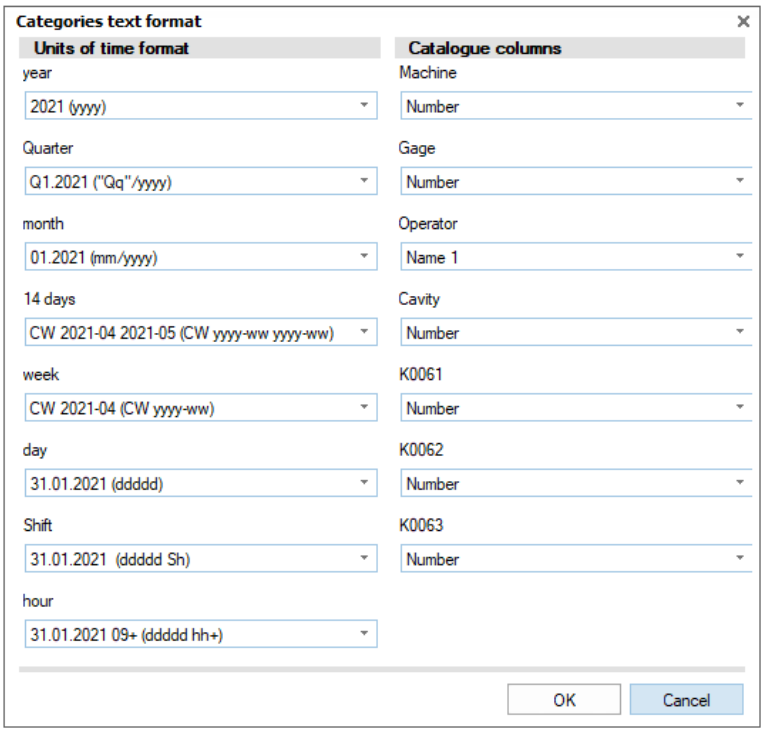
The configuration of the symbol allocation is described in a separate document.

The configuration of the symbol allocation is saved globally. This means it is independent of the user and module and is configured once for all users, groups and modules.

3.4 "Categories text format" (M-QIS module Long term analysis)

The summary graphics are used for a clear visualisation of the compressed data. With the summary graphics such as "Benchmark", a chronological order of the loaded data can be visualised according to allocation criteria, e.g., month, machine. The format of various allocation texts is defined with the help of the "Categories text format" dialogue.

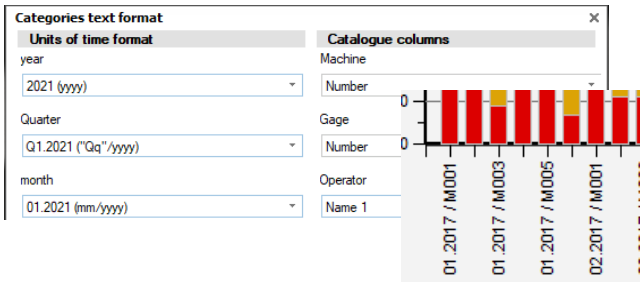
The dialogue can be called up via the "Edit format" button. Editing the contents is done via the selection in the drop-down menu. The formats of the time units are available on the left and the formats of the catalogue data are available on the right.



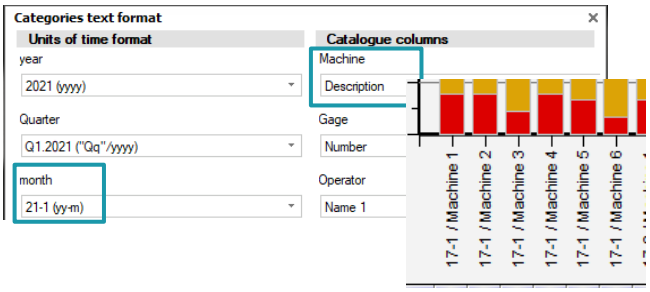
The formatting of the allocation texts is only available in the M-QIS module Long term analysis.

The allocation texts are only used in the benchmark graphs.

As an example, the view of month and machine with the settings of the standard delivery.



With adapted configuration for month and machine.



3.5 Editing free texts and k-field descriptions

The options in this window area can be used to define the individual texts as well as to individually modify the existing descriptions of the k-fields.

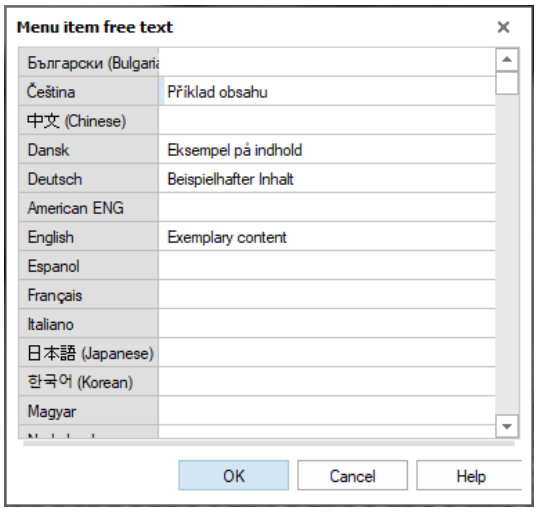
All changes made here are saved in the text database.

3.5.1 Create and edit free texts

In addition to adding individual texts, the free texts also make it possible to create them in different languages. Multilingual individual texts are mainly used in the graphics and reports.

Create new text

New texts are created via the "Menu item free text" dialogue. This can be called up via the "Create new text" button. Independent of the purchased national languages, the dialogue contains all languages available in the application.



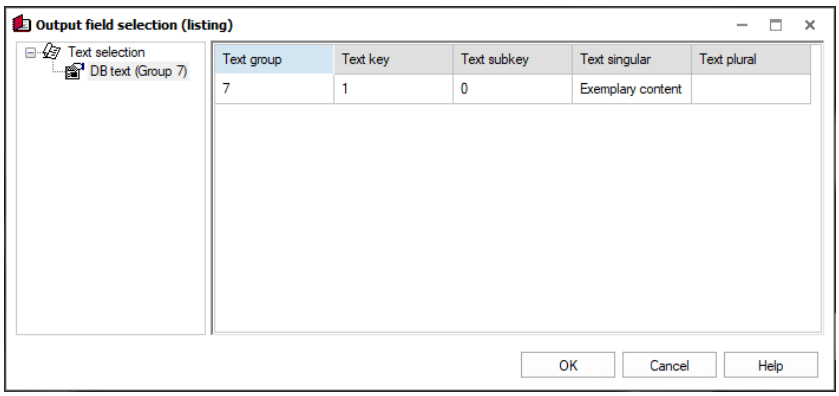
When creating new texts, make sure that they are created in all required languages.

The newly added texts can only be edited after restarting the application.

Changes in the text database must be taken into account during software migrations, e.g., upgrades.

Edit existing texts

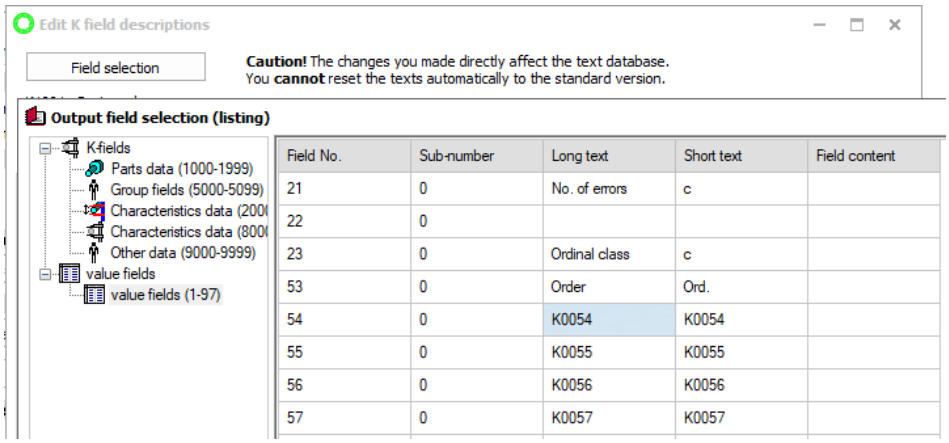
The dialogue for editing already created texts can be called up via the button "Edit existing text". All individual free texts are saved in the text group "7". The texts are edited by marking an entry in the dialogue "Output point selection (listing)" and confirming with the "OK" button.



3.5.2 Edit k-field descriptions

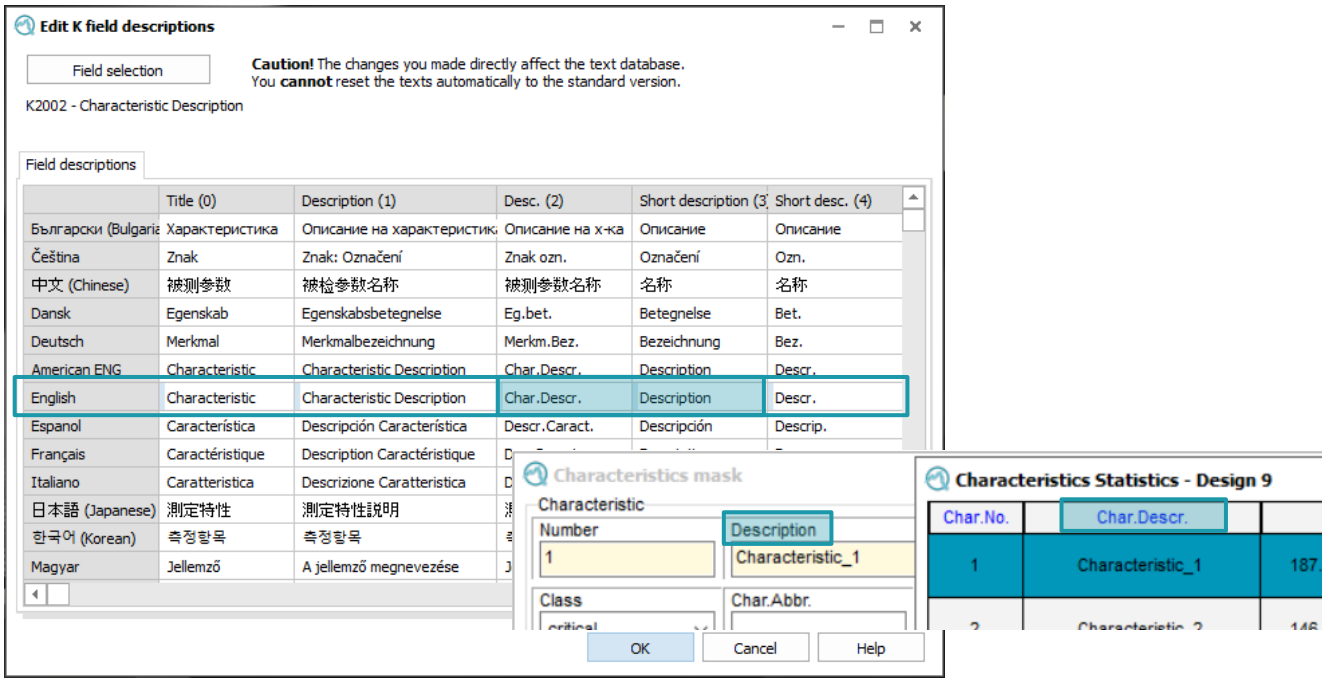
If the descriptions of the k-fields are to be individually customised, this can be done via the dialogue "Edit K field descriptions". The dialogue can be called up via the button "Edit K field descriptions".

The k-field descriptions are mainly customised for the free k-fields of the additional data level, K0054 to K0063. In the standard delivery, these have the k-field number as their description.



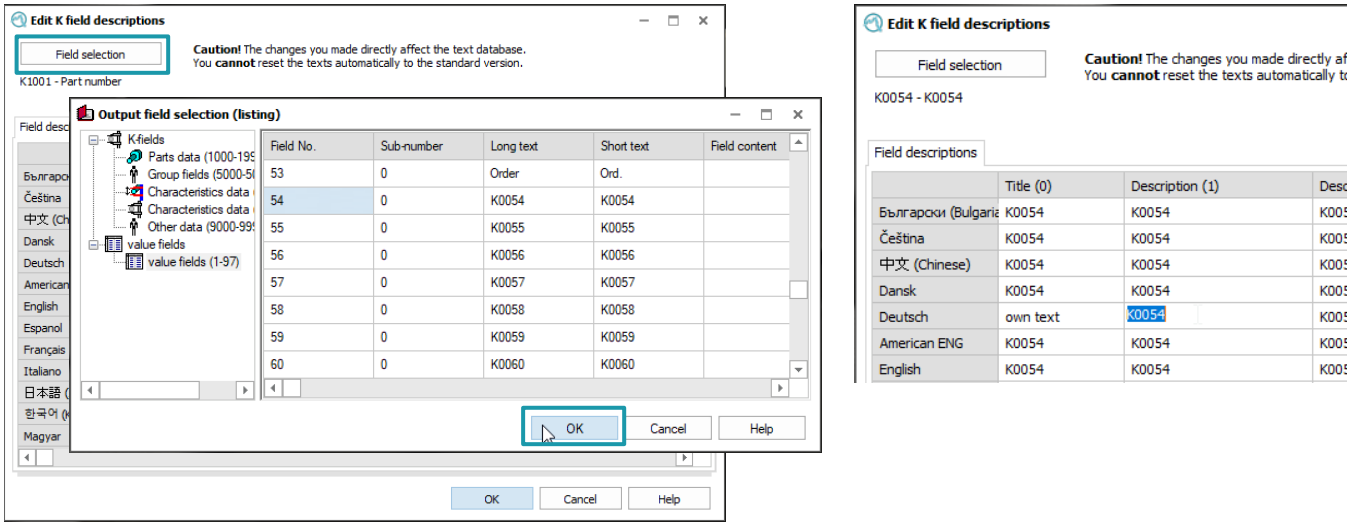
The changes to the k-field descriptions are saved in the text database. After a change has been made, it is no longer possible to reset to the settings of a standard delivery.

There is no automatic adaptation of the description length to the field length. Depending on the area of application and the available space, the Q-DAS application uses different k-field descriptions. In the following, the application of different descriptions for the k-field 2002 in the characteristics mask and in the graphic "Characteristics Statistics".



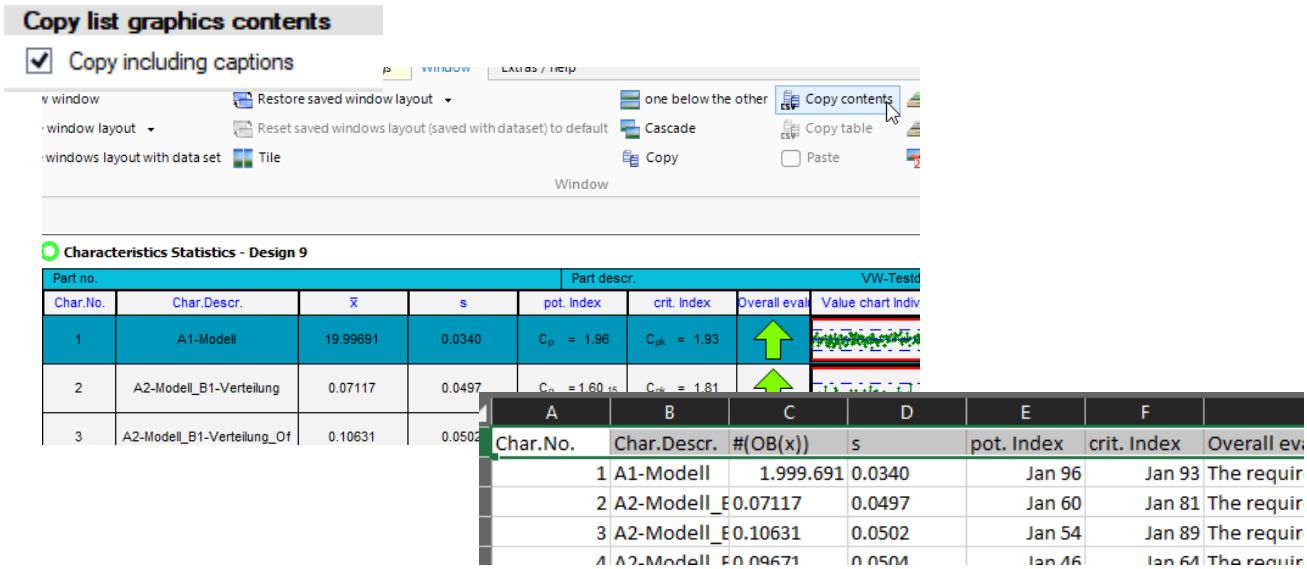
When changing the k-field descriptions, the different long and short forms must be taken into account.

Via the "Field selection" button and subsequent selection of a k-field via the "Output point selection (listing)" dialogue, the k-field is selected for editing. The actual editing of the description is done by clicking into the required field.



3.6 "Copy list graphics contents"

When working with list graphics, it is possible to copy the content of a list graphic to the clipboard. If the option "Copy including captions" is activated, the heading line is also taken into account. In the following example, copying is executed with the option activated and then pasted into Excel.



3.7 "Quick filtering in summary graphics".

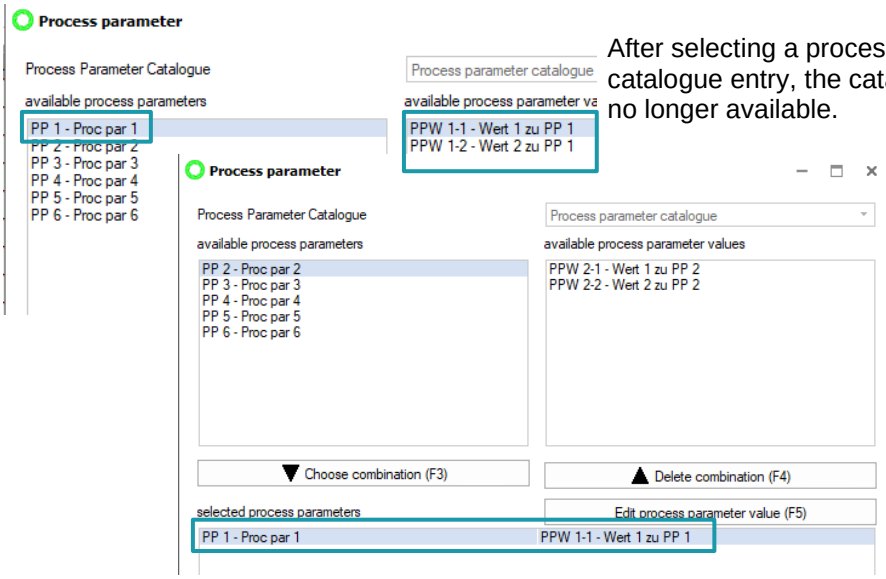
This is described in a separate document.

3.8 "Default styles for all graphics"

This is described in a separate document.

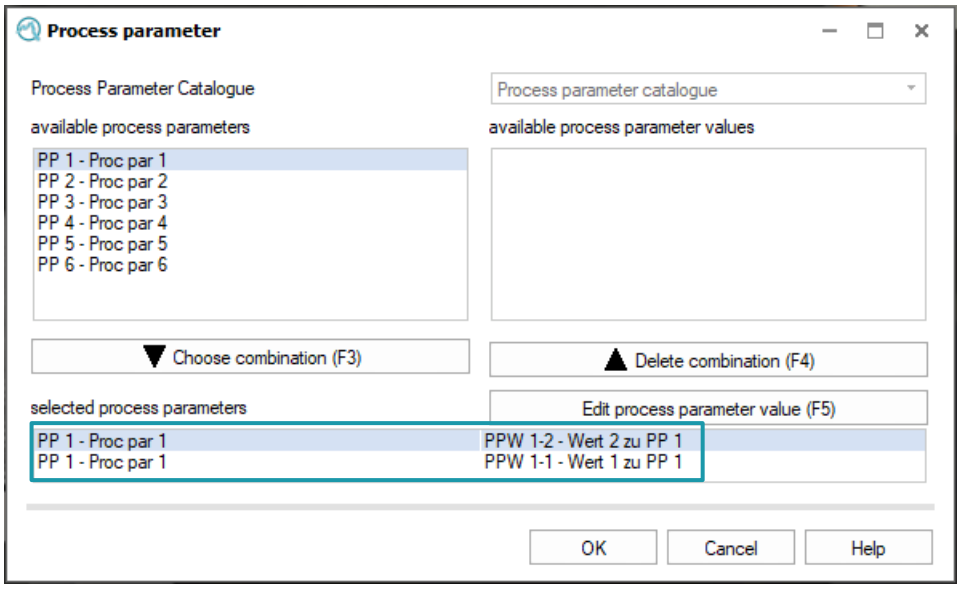
3.9 "Allow multiple input of process parameters"

Each catalogue entry in the process parameter catalogue can contain different counts of process parameter values. When entering a process parameter, additional data field K0011, a maximum of one parameter value can be used per catalogue entry.



After selecting a process parameter value from a catalogue entry, the catalogue entry that is affected is no longer available.

Activating multiple entry allows the selection of several or all catalogue entries.

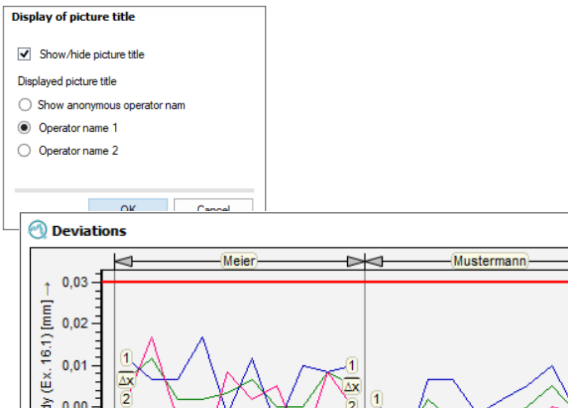


3.10 "Display of operator name (solara.MP)".

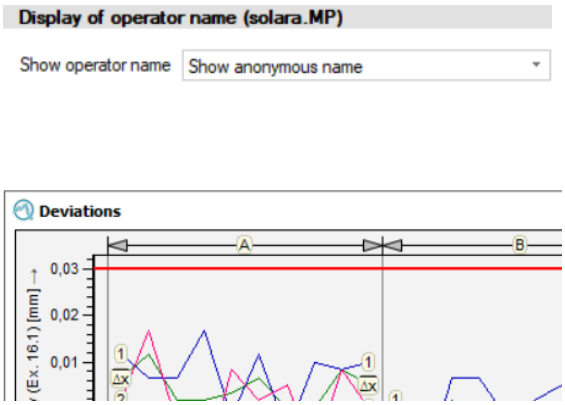
In solara.MP, graphics are available in which the operator names can be displayed. The selection list under "Display of operator name (solara.MP)" globally defines the form in which the operator names are displayed.

In the following, the settings of the graphic are ignored. By setting the global default, the operator names is displayed anonymously.

The graphic itself shows the "Operator name 1".



With the default "Show anonymous name", the letters (A, B, etc.) are displayed instead of the operator names.

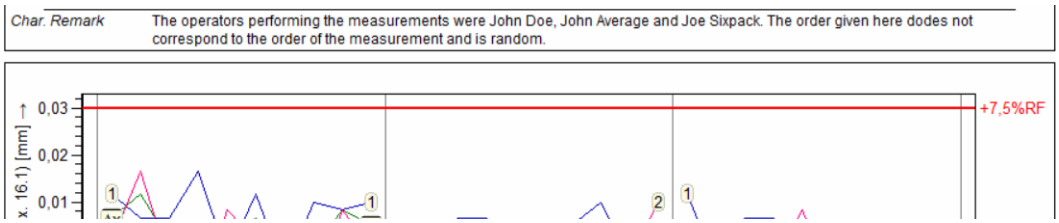


Data protection and the obligation to provide evidence

In most European countries it is NOT allowed in classical industry to have the operator's name for the measured value in Measurement system analysis. Keeping operator information in parallel could be used to judge the "performance" of different operators compared to each other. This is often seen as a violation of applicable law for the protection of employees.

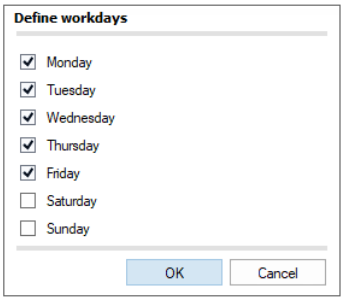
However, this is opposed by the obligation to provide evidence. Often, the responsible persons in the audits are asked to prove in writing that a Measurement system analysis has been carried out properly. Therefore, it must be proven that the Measurement system analysis has been carried out by different operators over time. In this case, it is not necessary to keep operators' information to the measured value.

The information can be provided, for example, by a general expression of the operator information in the characteristic field "Remark". The information in the characteristics mask can then be shown on the reports.



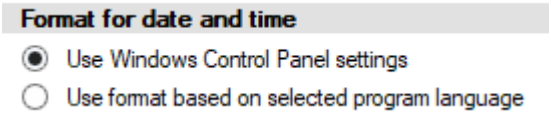
3.11 "Workdays"

This defines which weekdays are used as working days when filtering. For example, when applying the filter option "Last n working days".



3.12 Format for date and time

The options here define a policy for the format specification of date and time.



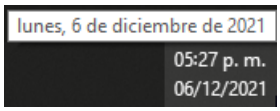
With the option "Use Windows Control Panel settings", the configuration of the executing operating system is used for the format specification. In the case of a local or client installation, this is the local PC. When starting a server provisioning directly on the server itself, e.g., for M-QIS Reporting, the settings of the server operating system are used. In a Citrix environment or similar terminal server environment, the application is run on the server itself. Therefore, the settings of the server operating system are also used for this type of distribution. This must also be taken into account when using terminal server farms.

Below are a few examples of the different formats for time and date via the selection of the language in the Q-DAS application and the activated option "Use format based on selected program language". The region "German (Germany)" is configured in the operating system. Other operating system settings may result in different format appearances.

Language	Format for time and date
GER	1,000 15:27:22 18.11.2021
ENG	1,000 15:27:22 18/11/2021
US ENG	1,000 3:27:22 PM 11/18/2021
ESP	1,000 15:27:22 18/11/2021

The Q-DAS applications do not distinguish between all the format variants available in the operating system. For example, for detailed information between Spanish (Spain) and Spanish (Mexico). When selecting the national language via the application, the format of the first entry in the operating system listing is used. If the local format variants are to be used, this must be defined in the settings of the operating system and the option "Use Windows Control Panel settings" must be activated.

In the following, the region "Spanish (Mexico)" is configured in the operating system. This can be recognised by the time format in the task bar.



With the option "Use Windows Control Panel settings" activated, the formatting corresponds to the configuration in the operating system.

10.000	03:27:22 p. m.	25/11/2021

With the option "Use format based on selected program language" activated, the format of first "Spanish" entry is used.

10.000	15:27:22	25/11/2021

The definition of the format template is saved globally. This means it is independent of the user and module and is configured once for all users, groups and modules.

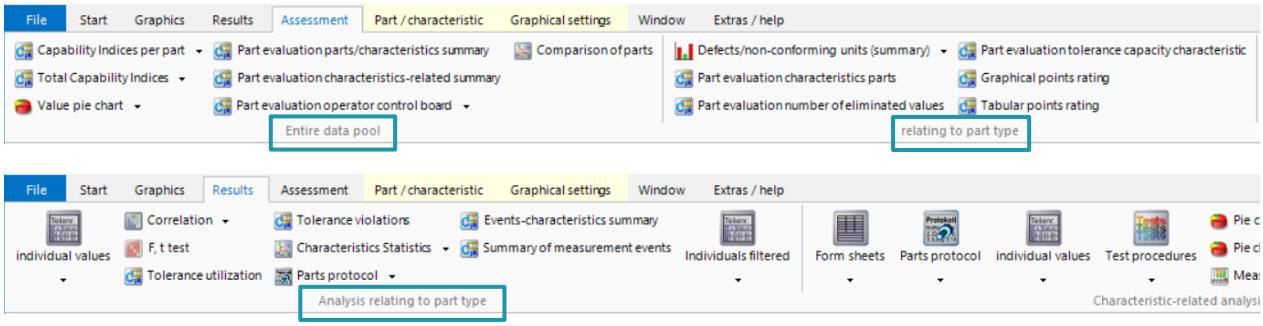
The Q-DAS applications do not distinguish between all format variants of a language available in the operating system. If the first entry of a language is not to be used for the format template, the desired language must be configured in the operating system.

4 “General settings 2” tab

4.1 "Reference to part"

The option "Reference to part" defines the consideration of the loaded data pool for mainly the summary graphics. The use of this option depends on whether several parts are loaded and whether they are to be displayed together in the summary graphics. The option "Reference to part" is active in the standard delivery.

In some way, the summary graphics are divided into groups in the ribbon bar. The group description indicates whether the option "Reference to part" is required.

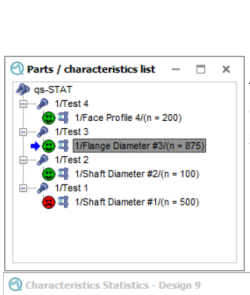


If a test plan with several parts or several test plans are loaded at the same time and the option "Reference to part" is not active, the characteristics of all loaded parts, the entire loaded data pool, are displayed in the graphic. Regardless of which characteristic is currently active.

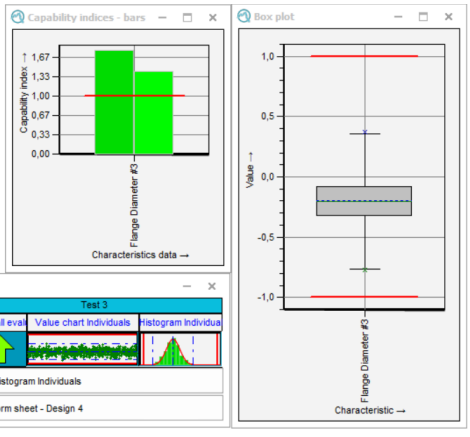
If the option "Reference to part" is activated, the graphics of the group "Analysis relating to part type" only show the characteristics of the currently activated part.

Apply "Reference to part" option - Example

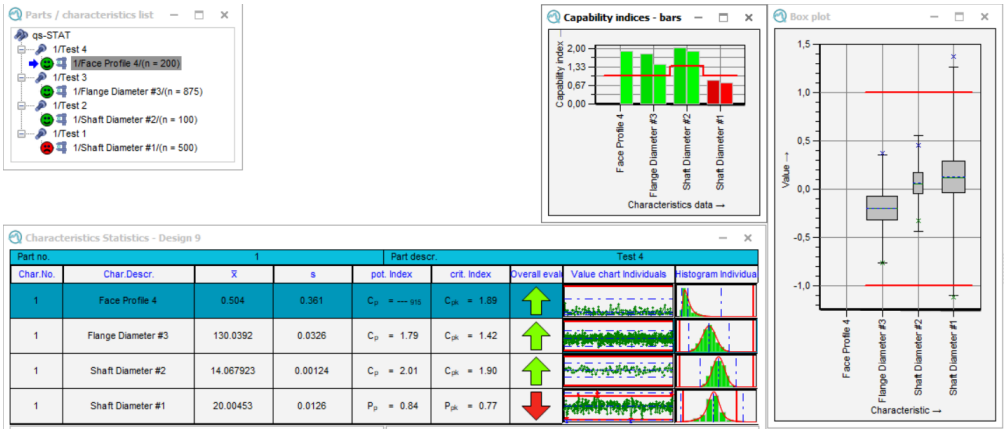
In the following, the test examples "Test_01" to "Test_04" are loaded together. Each of these DFQ files contains a single characteristic. The default of the standard delivery has not been modified. The option "Reference to part" is therefore active.



All overview graphics always show only the selected part.



However, if the "Reference to part" option is deactivated, all summary graphics will then show all characteristics of all parts.

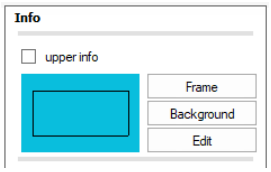


4.1.1 Follow-up work after deactivating the "Reference to part" option

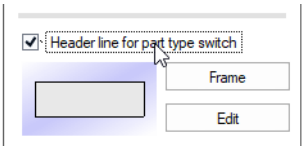
If the option "Reference to part" is deactivated, all characteristics of all loaded parts are displayed. But the reference to which part which characteristics belong to is missing.

The following example of the graphic "Characteristics Statistics" shows how the part reference can be established by graphic configuration.

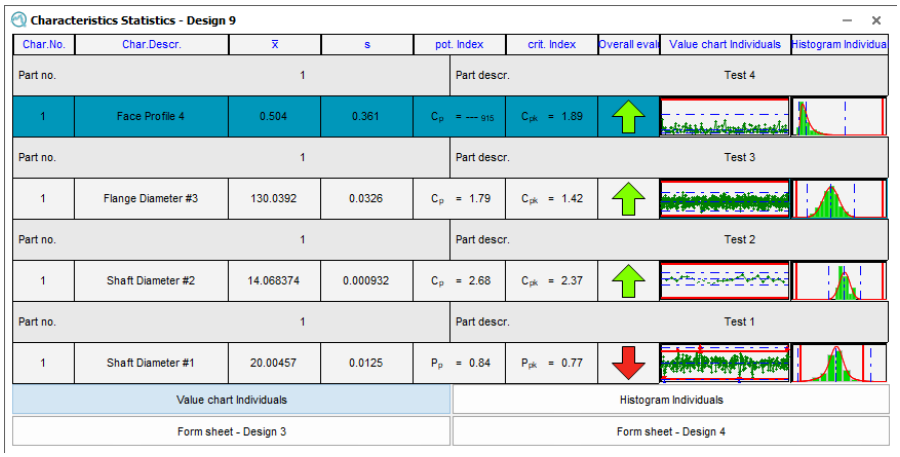
The "upper info" is deactivated, as it only refers to the first part.



The option "Header line for part type switch" is activated.



Only then is a reference to the parts possible again.

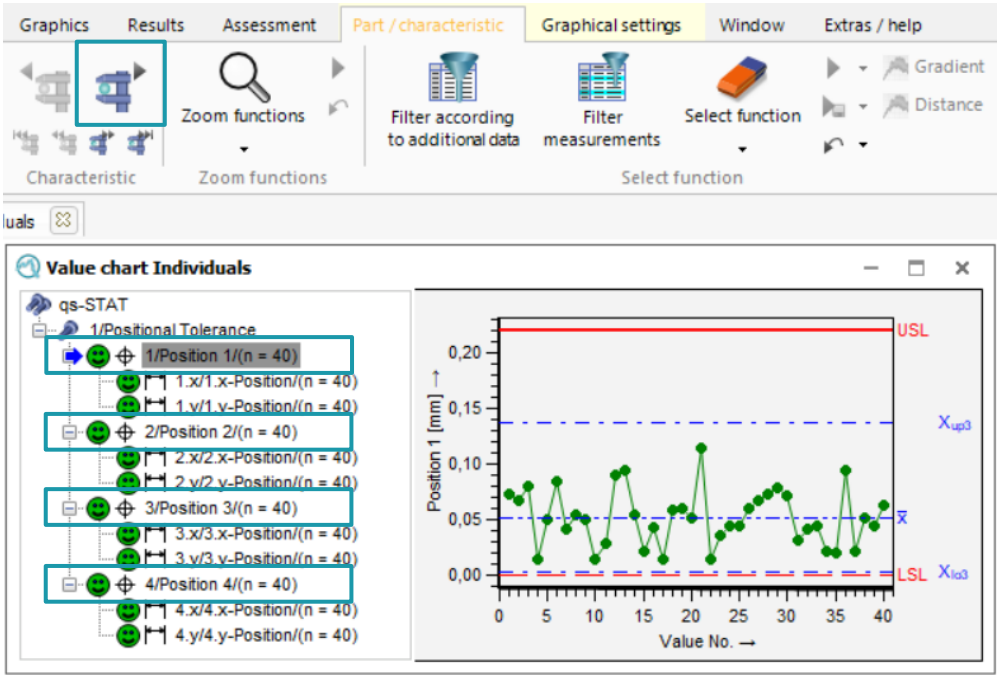


4.2 "Do not reset zoom in graphics"

By setting the option "Do not reset zoom in graphics", the graphics, such as the graphic "Value chart", remain at the set zoom level when there is a change of characteristic. If this option is deactivated, the zoom level is reset after a change of characteristic. All loaded measured values are displayed in the graphic again.

4.3 "Ignore subordinate characteristics in positional tolerances".

By setting this option, the change of characteristics for positional tolerances is carried out in groups. Normally, when there is a change of characteristic in the individual characteristic's graphics, such as "Value chart for individuals", there is a jump from characteristic to characteristic. With this option, the subordinate characteristics are ignored during the change of characteristic.



4.4 "Apply switch of characteristic to report preview"

If this option is activated, in the reports with characteristic reference, the change of characteristic in a graphic is also carried out in the report. This is only possible for characteristic reports without several sections and without filtering.

4.5 "Always show characteristics listing"

By setting this option, the dialogue "Characteristic selection" is called up when loading new data. With the additionally deactivated option "Double click deactivates characteristics", the deactivation of characteristics in the "Characteristics selection" dialogue can be prevented by a double-click.

The option "Always show characteristics listing" is a historical option which no longer has any meaning. If it is active due to updates of old configuration databases, it is recommended to deactivate the option.

This option is not available in the Q-DAS O-QIS application.

Further developments have made the use of the characteristics selection obsolete when opening data.

This historical option still exists from times when mainly the DFQ files were used for the evaluation, and only individual characteristic graphics served as the start screen.

With the increased use of databases, filtering options have also become more popular. Thus, characteristics can be marked as to whether they are important for the evaluations or should be printed and implemented in the filters. The filters are applied before the data is loaded. This increases performance and eliminates the need to deactivate characteristics before loading.

After loading, the summary graphics are usually displayed directly. In addition, the list of characteristics is active in the assistant to enable the user to change characteristics quickly.

4.6 "Draw directly after evaluation"

Obsolete setting, this no longer has any meaning.

4.7 "Deactivate characteristics without measured values"

If the option is active, all characteristics without measured values are deactivated before loading. The deactivation applies to the current module. There is no evaluation and no visualisation for deactivated characteristics.

To activate or deactivate the option, the user right "Extended characteristics selection" is required.

This option also affects the creation of new data sets via "File new". After creating new data sets, all characteristics are initially deactivated.

This option comes from historical usage and has no meaning in today's data flow systems. Therefore, it is recommended NOT to use this option and is not explained further in the manual.

4.8 “Lock new test plan automatically”

With this option, test plans can be locked for the duration of their creation. As long as a test plan is locked, no measured values can be recorded for it, but the header data can be edited. If this option is activated, the new test plans are locked when they are created. After their completion, they must be released for manual data recording. The test plan developer can release the test plan by selecting the option "Release test plan" in the context menu of the parts mask or in the context menu of the part in the dialogue "Read from database".

The configuration of this option is saved globally. Thus, it is independent of user and module and is configured once for all users, groups and modules.

4.9 "Verify evaluation module after opening file"

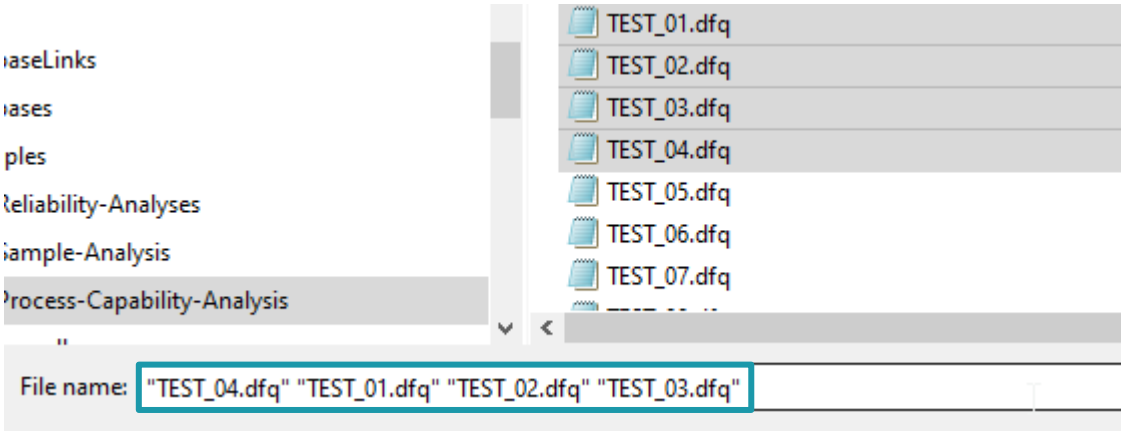
Historical option, which no longer has any relevance.

4.10 "load files in reverse sequence (with multiple selection)"

This option has an effect when loading multiple DFQ files. The behaviour of the operating system when loading multiple files is ignored and the DFQ files are loaded in sorted order.

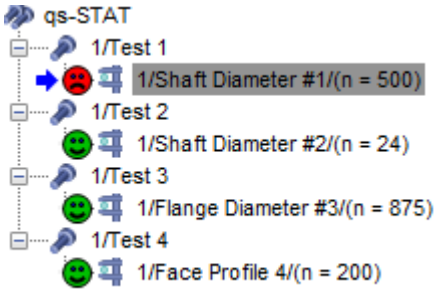
In the following, the test examples "TEST_01.dfq", "TEST _02.dfq", "TEST _03.dfq" and "TEST _04.dfq" are loaded. First, the file "TEST _01.dfq" is selected in the dialogue "Open file". Then the file "TEST _04.dfq" is selected by holding down the [SHIFT] key.

But the order of the files is: 4, 1, 2, 3:

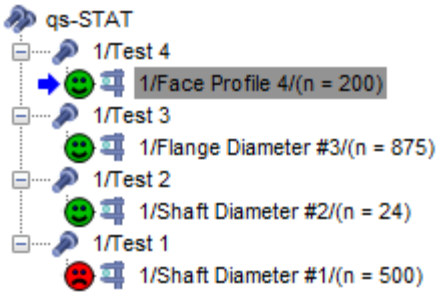


When loading the files, the listing in the "Open file" dialogue is ignored. The DFQ files are loaded in sorted order.

If the option "load files in reverse sequence (with multiple selection" is deactivated, the order 1-2-3-4 is loaded.



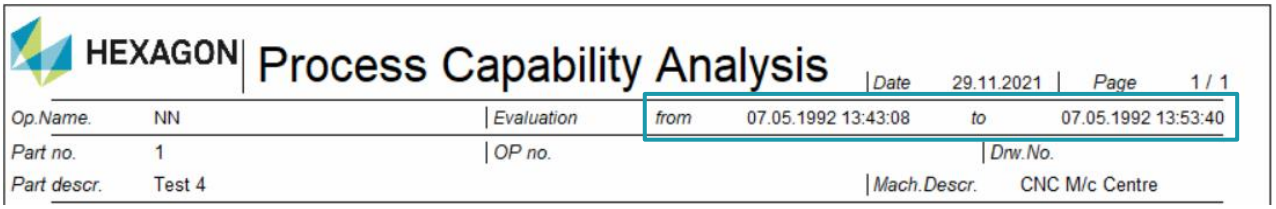
If the option "load files in reverse sequence (with multiple selection" is activated, the order 4-3-2-1 is loaded.



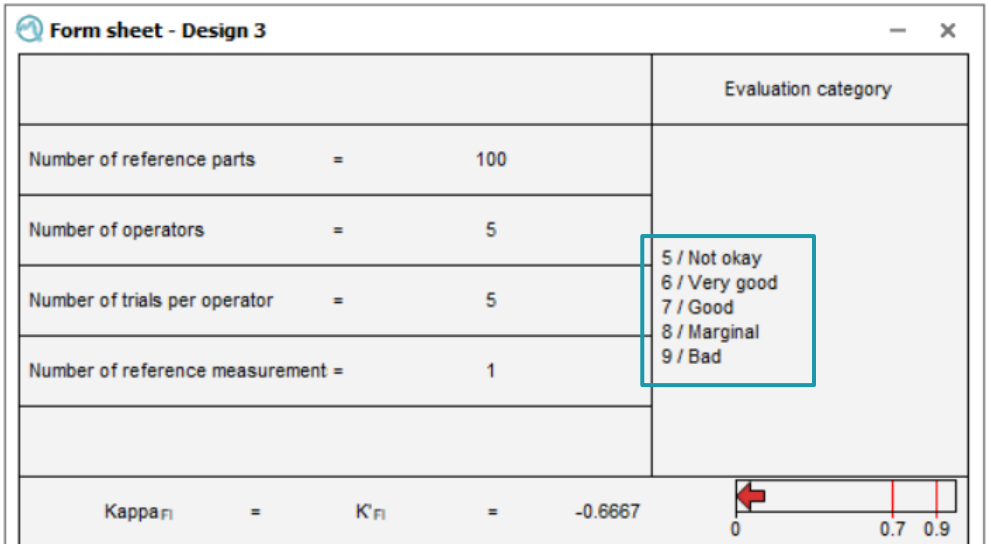
4.11 "Protocol additional data on loading"

The "Protocol additional data on loading" option ensures that the additional data stored in the data set is listed internally, in a sense as a protocol. The information of this variation of additional data can be used as an overview display as well as in many other positions in the application. This option is now active in the standard delivery.

For example, this is used to display the effective evaluation period in the reports.



But also, for listing the characteristics of the ordinal characteristics in solara.MP.



Due to the complexity and use of "Protocol additional data on loading" option, this is described in a separate document.

4.12 "Rearrange subgroups (K0080, K0081)"

The correct loading of data to have the measured values at the correct subgroup position for evaluations in the process capability analysis or recording in procella is an increasingly important issue.

With the option "Rearrange subgroups", a possibility has been created to save the subgroup information in the measured values and to use it for generating the subgroups. The basis of this is the activation of K0080 and K0081 in the additional data.

Due to the complexity, this is described in a separate document.

4.13 "Consider process interventions in QCC".

If quality control charts (QCC) are used in the case of statistical process control (SPC), the use of data sets with moving subgroups leads to overcontrol. When using characteristics with a moving subgroup type, one measured value is used in many (at least two) subgroups. To avoid overregulation, the option "Consider process interventions in QCC" was created.

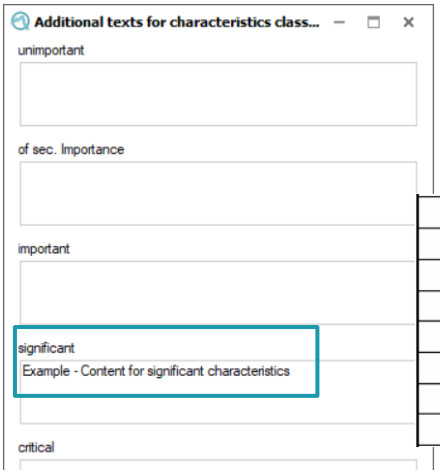
Due to the complexity, the handling of the option "Consider process interventions in QCC" is described in a separate document.

4.14 "Always set evaluation method to standard when loading data".

If this option is activated, the standard evaluation strategy is always used when reloading a data set. In solara.MP, the sub-strategy is used in addition to the standard evaluation strategy. If another evaluation strategy is selected before loading, it is considered temporarily selected.

4.15 "Additional texts for characteristics classes"

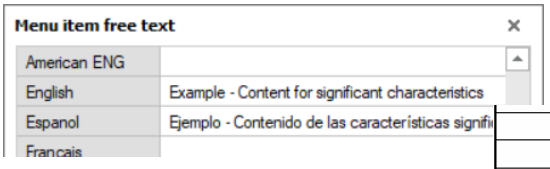
Additional texts for the characteristic classes can be stored via the "Additional texts for characteristic classes" dialogue. The dialogue is called up via the button of the same name.



The stored additional texts can be output in the reports for each characteristic using the k-field "2902".

	n_{eff}	60	
	n_{tot}	60	
Model distribution			Normal Distribution
Char. class spec. add. txt			Example - Content for significant characteristics
Calculation method			$M_{2,1}$ Percentile (0,135%-50%-99,865%)
Potential Capability index (A)	=	C_p	6.27 ≤ **7.65** ≤ 9.02
Critical capability index (A)	=	C_{pk}	6.25 ≤ **7.63** ≤ 9.01

With the possibility of creating and editing free texts, multilingualism is also possible here.



Modelo de distr.	Distribución normal
Clase caract espef en text add.	Ejemplo - Contenido de las características significativ
Tipo de cálculo	$M_{2,1}$ Percentil (0,135%-50%-99,865%)

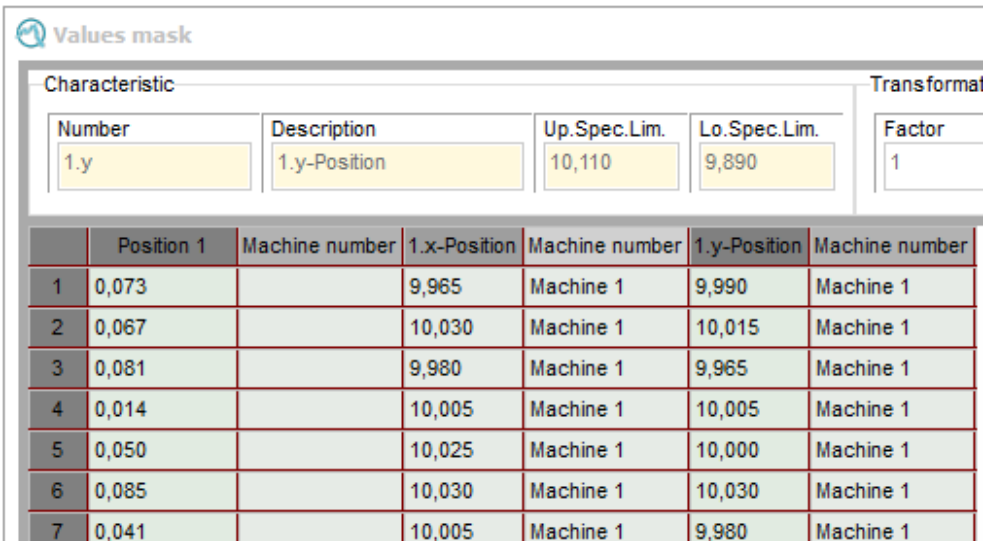
4.16 "Grouping of Positional tolerances compatible to V3.xx"

This is an option that was required after switching from the 16-bit to the 32-bit application. This option no longer has any significance in the current version.

4.17 “Takeover of additional data for calculation”

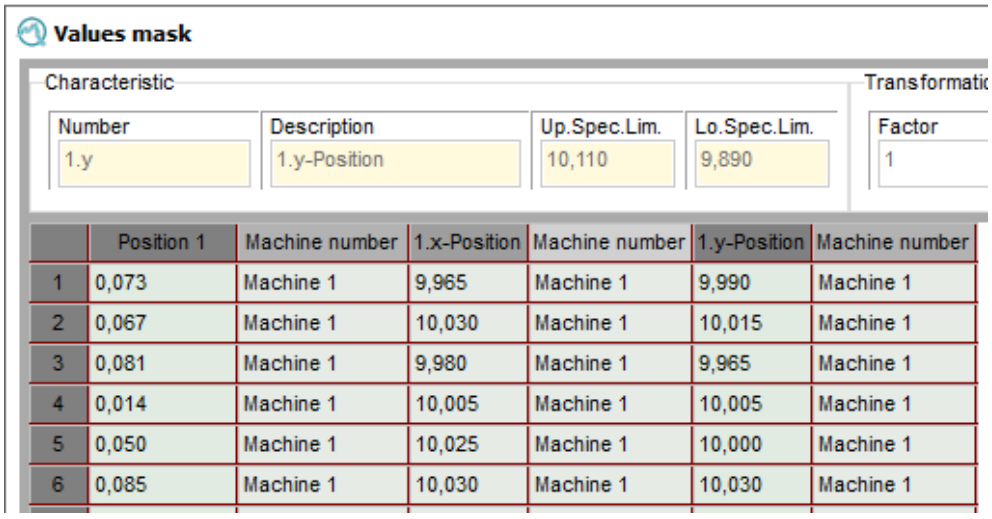
In the case of positional tolerances, the superordinate positional deviation amount does not have any additional data in most cases, since this is a calculated characteristic. However, if the “true position” is also to be provided with additional data, the additional data of an axis can also be transferred as additional data of the “true position”. The basic prerequisite is that an evaluation strategy is used which recalculates the “true position”.

Example of a positional tolerances originally with only additional data in the axes, without activated option:



	Position 1	Machine number	1.x-Position	Machine number	1.y-Position	Machine number
1	0,073		9,965	Machine 1	9,990	Machine 1
2	0,067		10,030	Machine 1	10,015	Machine 1
3	0,081		9,980	Machine 1	9,965	Machine 1
4	0,014		10,005	Machine 1	10,005	Machine 1
5	0,050		10,025	Machine 1	10,000	Machine 1
6	0,085		10,030	Machine 1	10,030	Machine 1
7	0,041		10,005	Machine 1	9,980	Machine 1

Example of a positional tolerance originally with additional data in the axes only. Here the option to take over the additional data from the first axis is activated:



	Position 1	Machine number	1.x-Position	Machine number	1.y-Position	Machine number
1	0,073	Machine 1	9,965	Machine 1	9,990	Machine 1
2	0,067	Machine 1	10,030	Machine 1	10,015	Machine 1
3	0,081	Machine 1	9,980	Machine 1	9,965	Machine 1
4	0,014	Machine 1	10,005	Machine 1	10,005	Machine 1
5	0,050	Machine 1	10,025	Machine 1	10,000	Machine 1
6	0,085	Machine 1	10,030	Machine 1	10,030	Machine 1