HEXAGON

Q-DAS qs-STAT

Symbol allocation

Tolerance limits – individual values

CAS
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HxGN Quality Assurance

Information about this document

Parts of this document may be automatically translated.

Document History

Version	Date	Author(s)	Modifications / Remarks
	15.04.2024	BA	Initial release

CONTENTS

1 Task

The goal is to create a report containing a table of measured values with special symbol representation. The representation for the values is as follows:

- Green check mark for values inside of the tolerance field.
- Purple cross for values outside of lower tolerance limit.
- Red cross for values outside of upper tolerance limit.

This case study does not take into consideration all the possible combination of the settings of symbol allocation. For detailed description of the options please read the documentation "Symbol allocation" on our help platform under *Handling and configuration* | *General settings* https://documentation-be.hexagon.com/bundle/q-das/page/LD/FAQ_General-Settings_Symbol-Allocation.pdf.

This case study does not take into consideration all steps that might be needed in order to create a report. For detailed information about creation of report please read the documentation about the product Q-FD Form designer on our help platform https://nexus.hexagon.com/documentationcenter/cs-CZ/bundle/q-das/page/formdesigner.html.

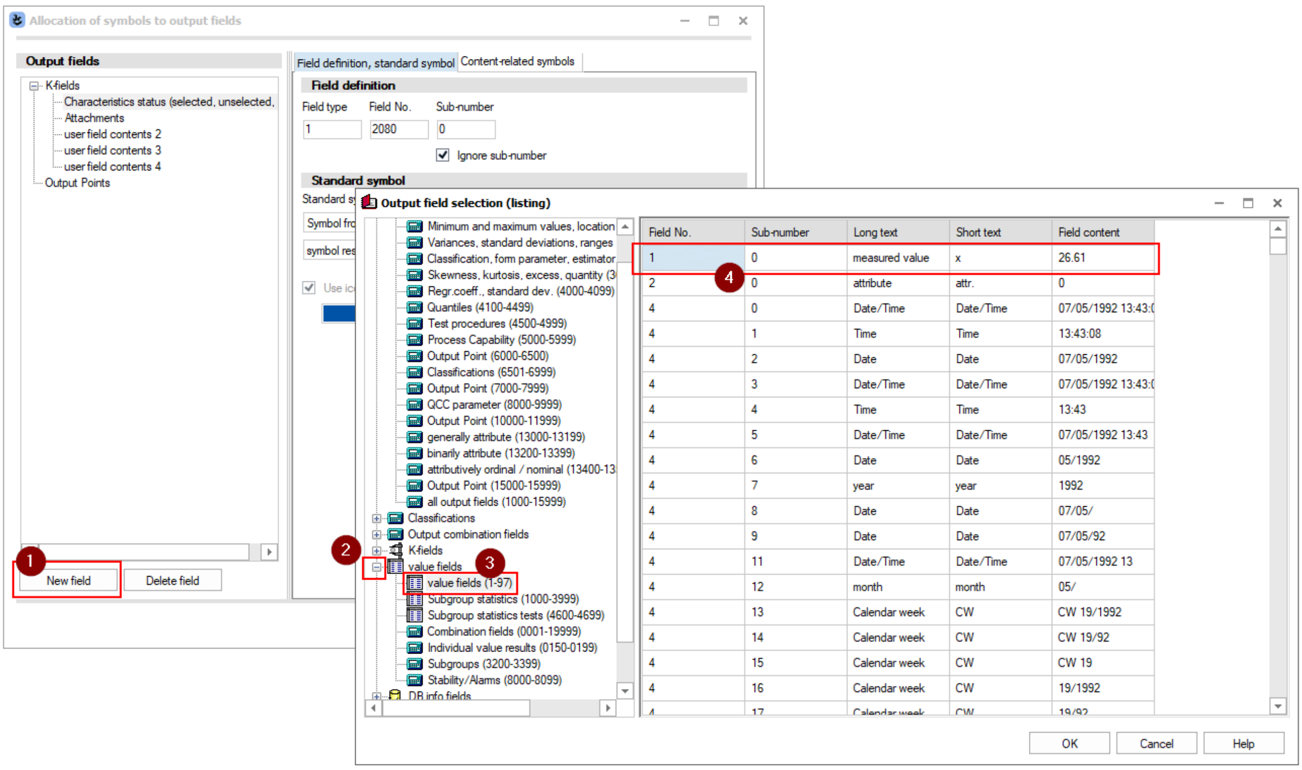
2 How to

2.1 Symbol allocation

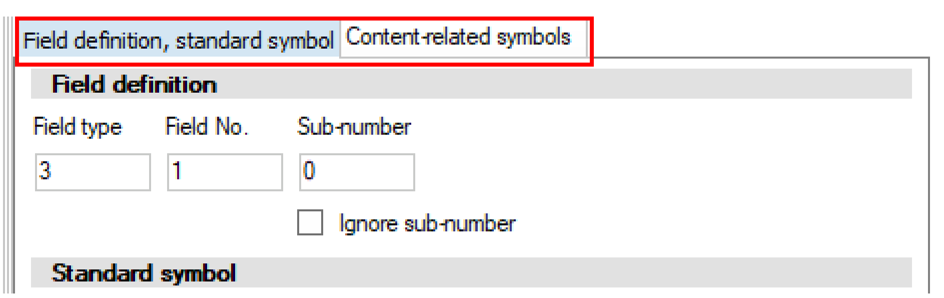
The symbol allocation can be set up differently for each output point. Output point used in our example is measured value (field number 1).

The settings can be found under *File* | *Configuration* | *General settings* | *General settings 1* | *Edit symbol allocation*.

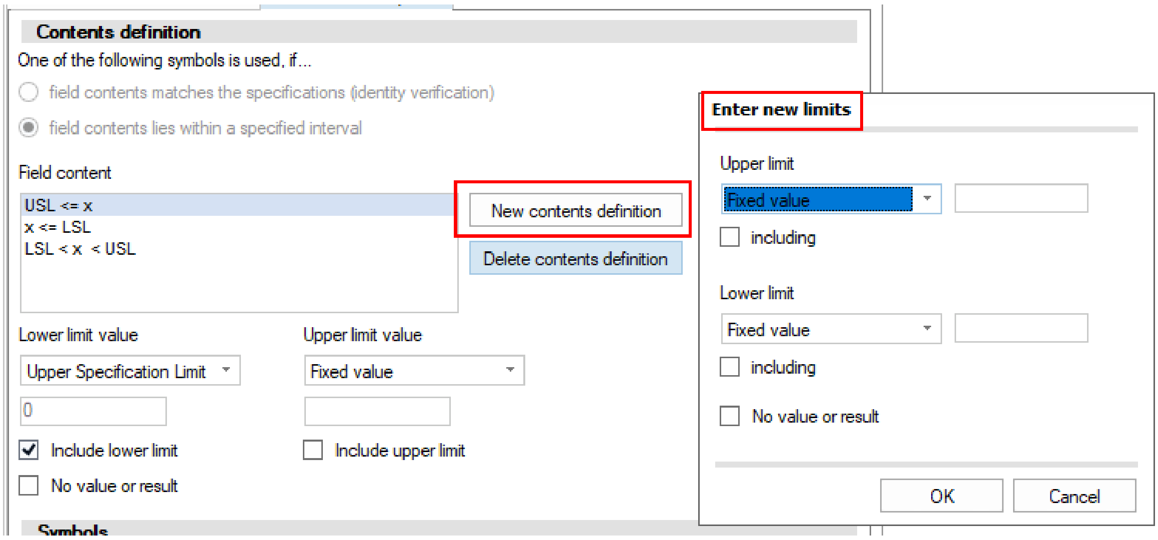
Select the output point by clicking on the button “New field”.



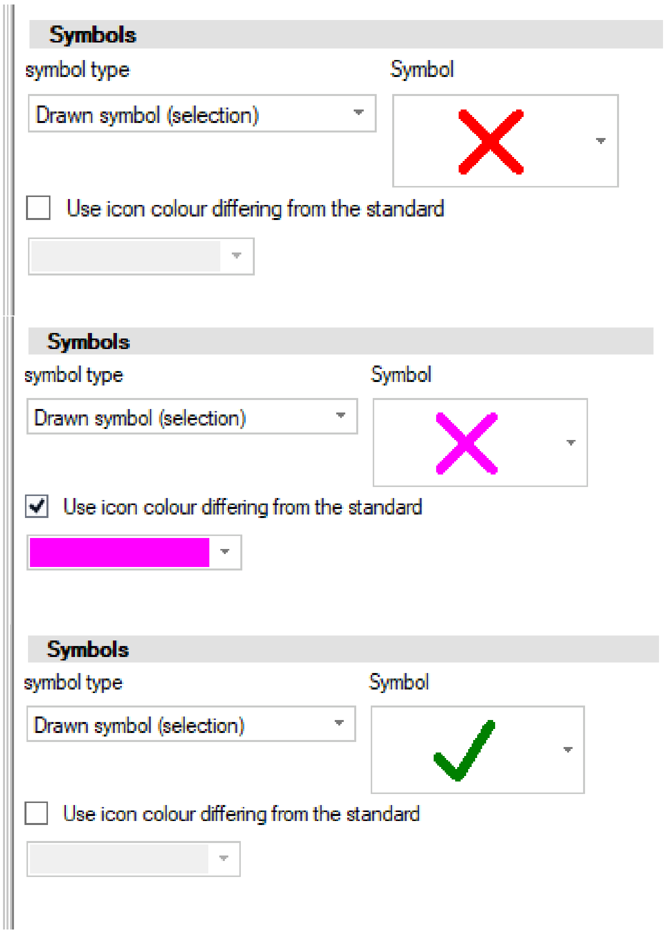
In the right side of the dialog window, 2 different types of field symbol definition can be seen. First is for standard symbol and the second is for Content-related symbols.



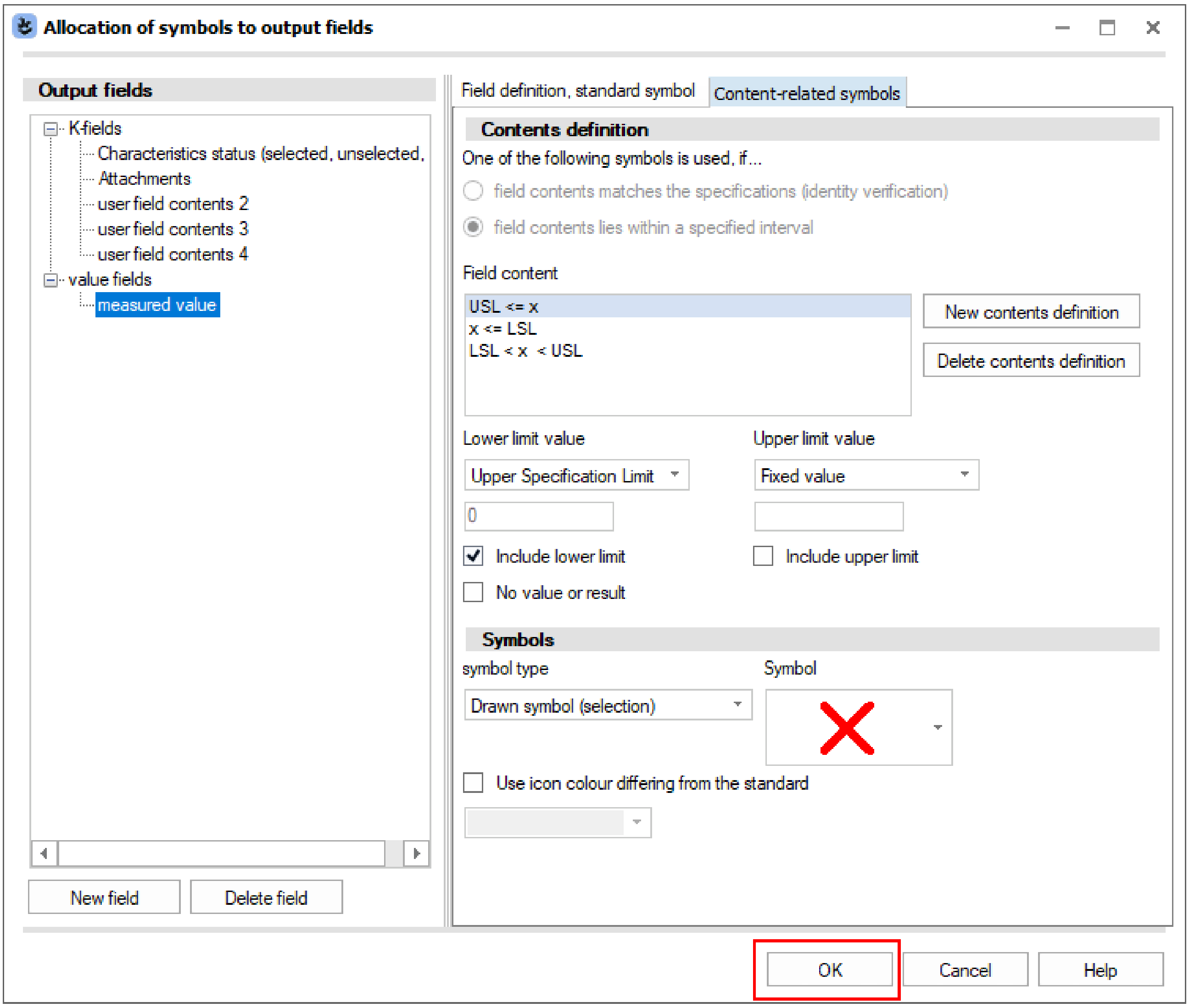
Click on the “Content-related symbols” tab in order to configure the needed options. Create 3 new conditions for field content by clicking on “New contents definition” button.



For each condition select a symbol you want to use. If needed, a default colour of the symbol can be adjusted.



Save the settings by clicking on “OK” button.

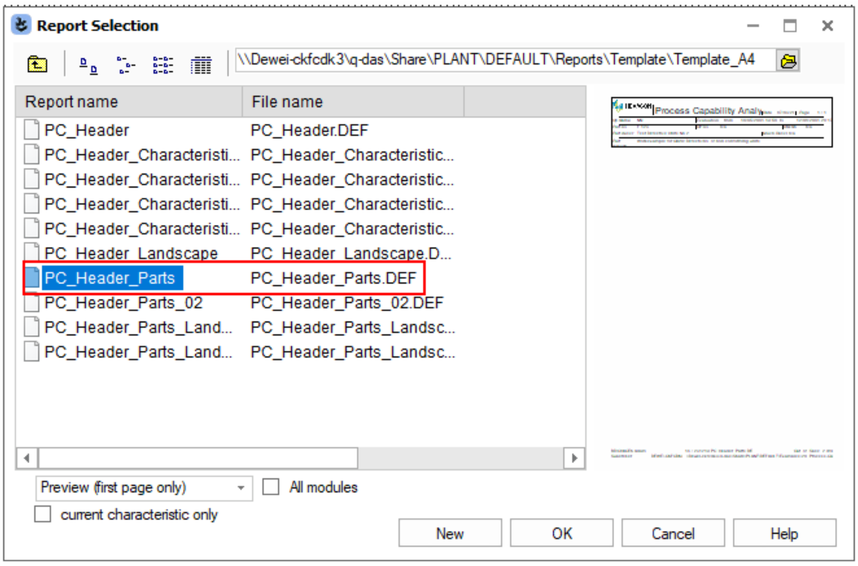


2.2 Report

Report created will use the settings of symbol allocation done in previous subchapter. However, it is not the only way of how to show the results with allocation of the symbol. The graphical settings done in coming subchapter 2.2.2 can be done for a table in the working space of qs-STAT.

2.2.1 New report

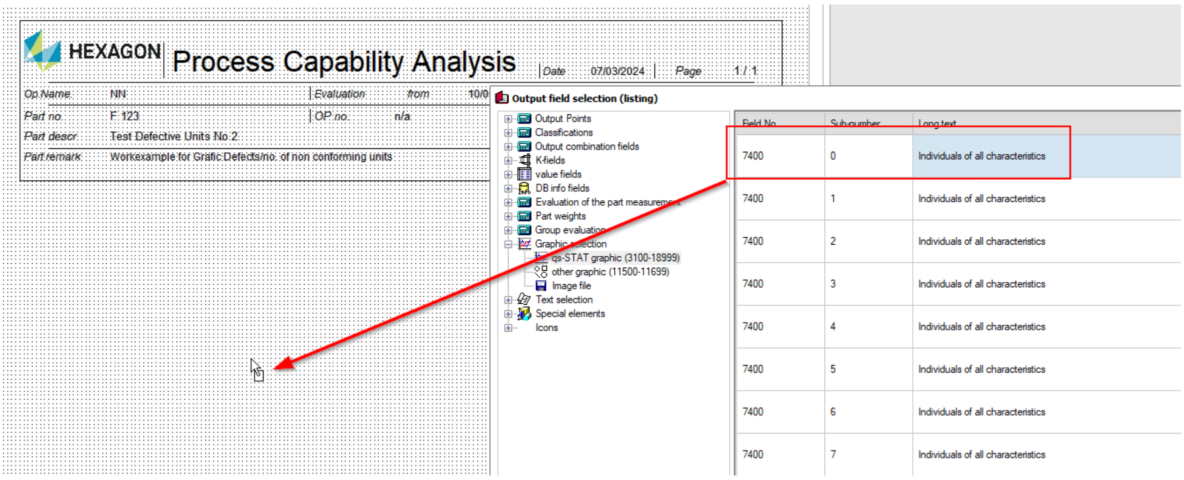
For our new report we will copy the content of the existing template to the new file.



To do so follow these steps:

1) Open “New” report in form designer.
2) Open template in form designer.
3) Select all content from the template and copy/paste it to the new report.

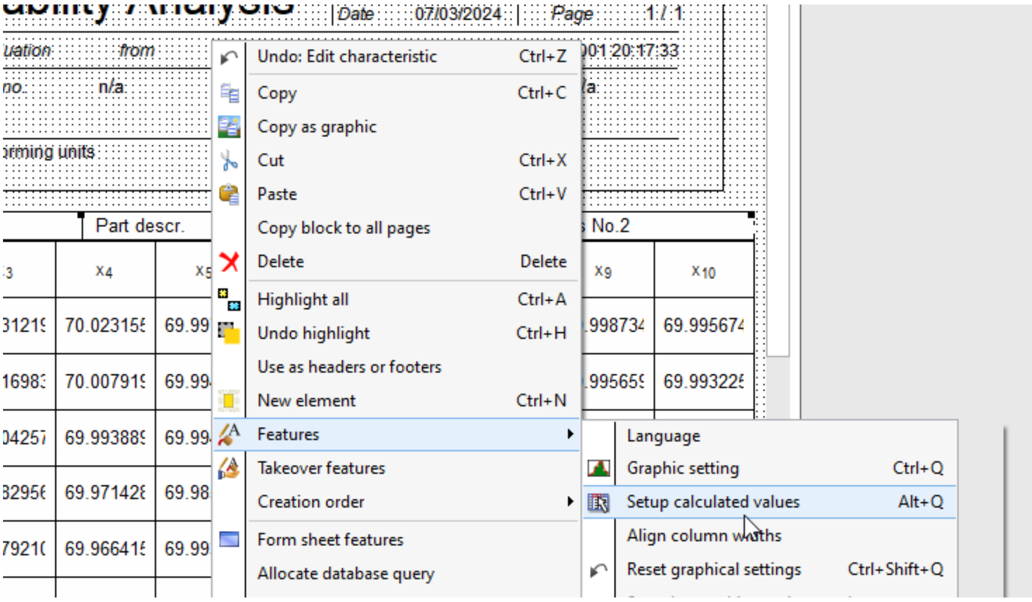
Find the table 7400 “Individuals of all characteristics” and drag and drop it into the new report.



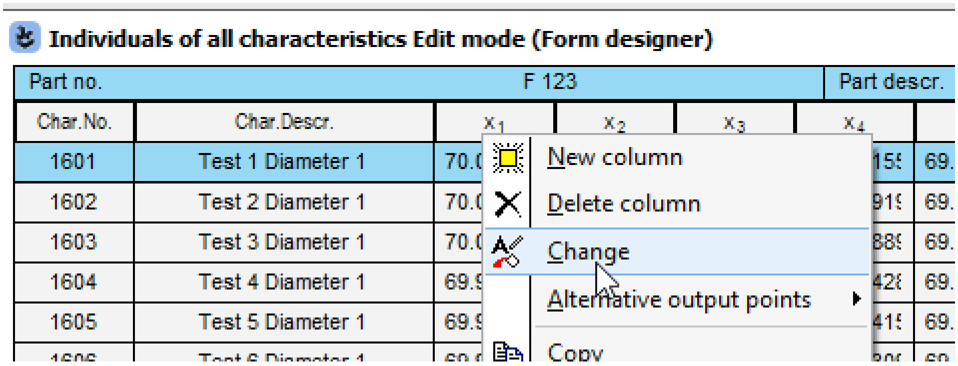
2.2.2 Graphical settings

Firstly, adjust the size and position of the table.

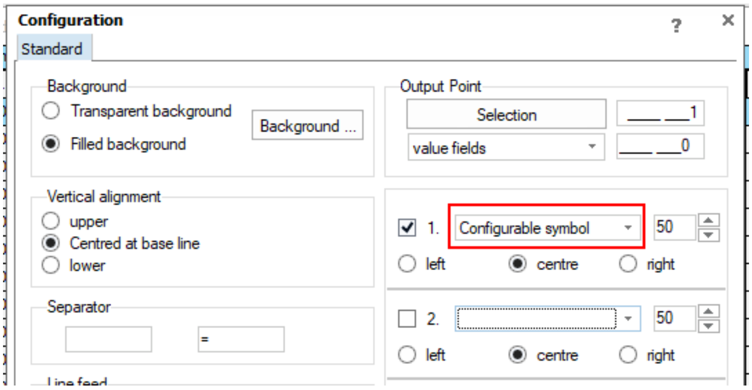
Right-click on the table and select the option “Setup calculated values”.



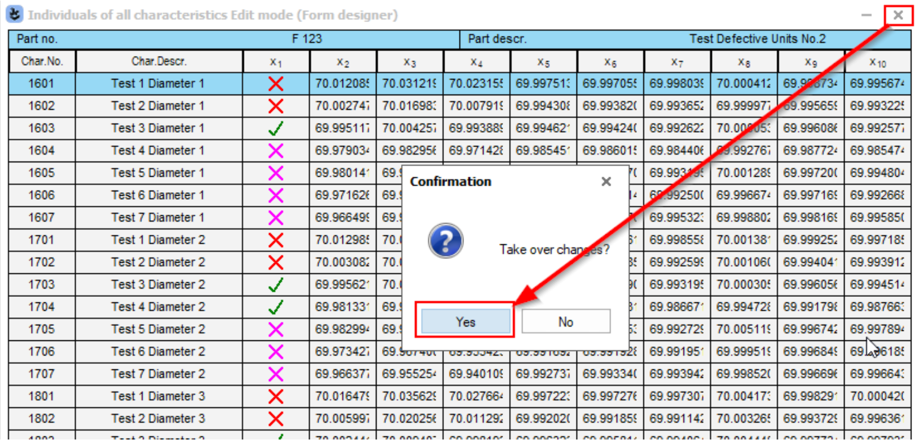
The table will be opened on the new window in the edit mode. Right click in the first column and select the “change” option.



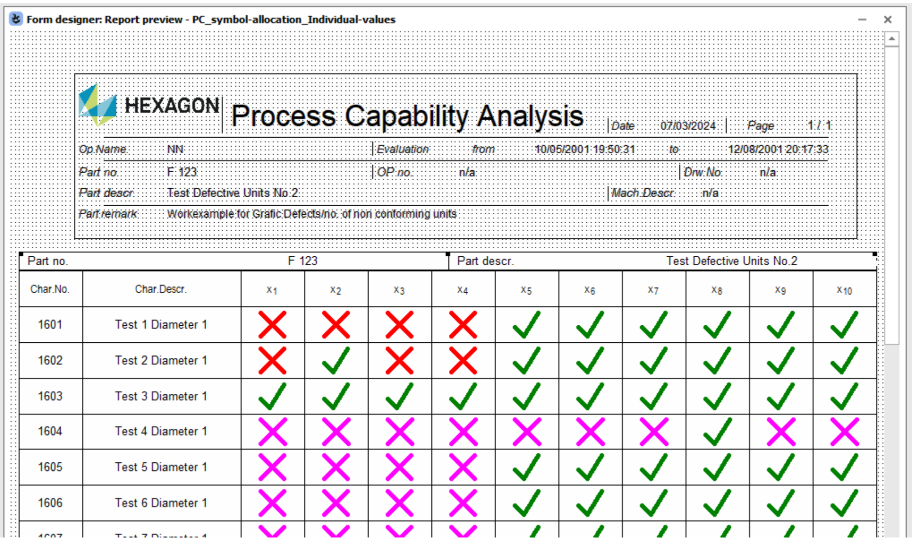
Change the content to “Configurable symbol”.



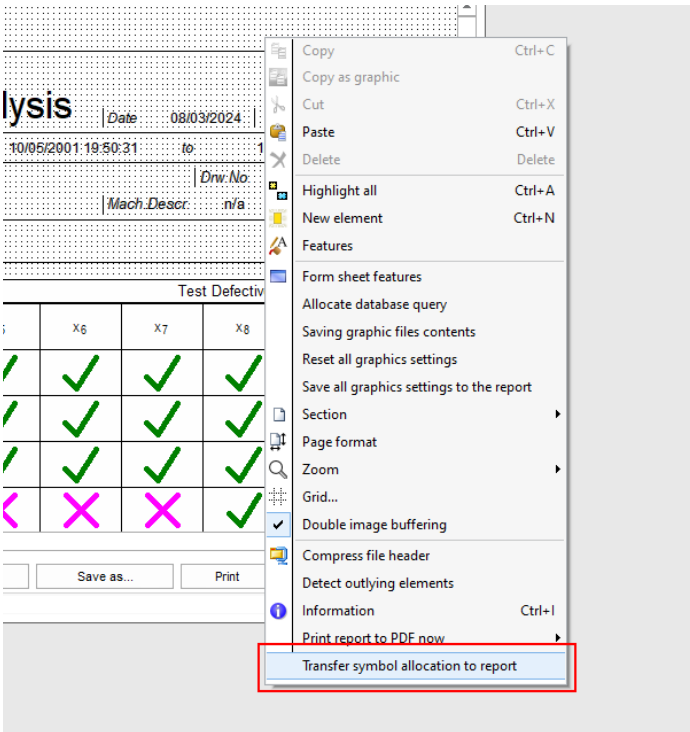
Close the table and select yes to the question “Take over chages?”.



The table in the report will be changed accordingly.



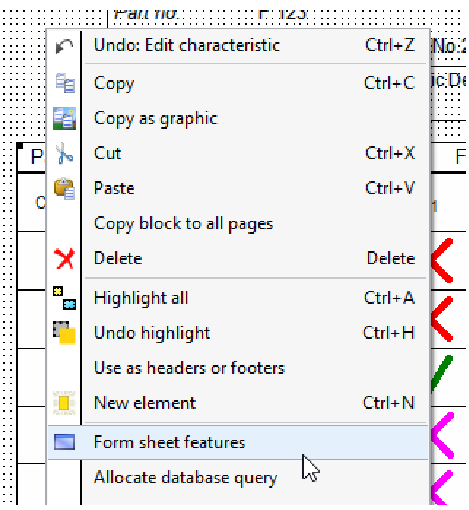
Until this point, if you would save a report and start using it, it would be working only in the system where symbol allocation was also set. That limits the usage of the report to specific systems. However, if the desire is to distribute this report to different Q-DAS systems (different plants, suppliers etc…) you can save the settings directly in this report by right-clicking somewhere in the report and selecting the option "Transfer symbol allocation to report".



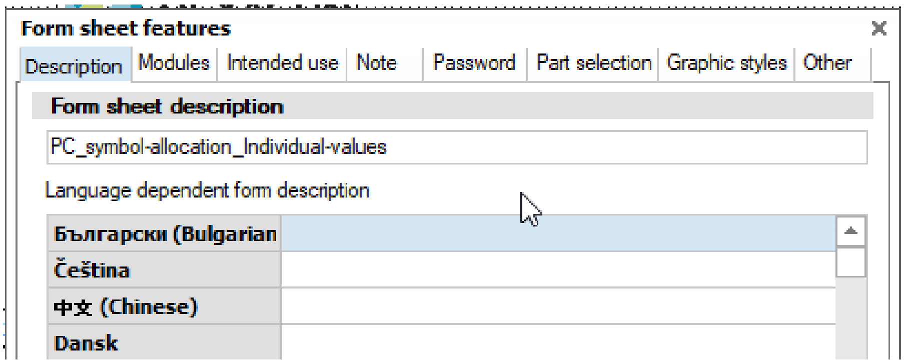
Now the report will be working also in the systems without symbol allocation settings in version 2024.1 and later ones.

2.2.3 Save the report

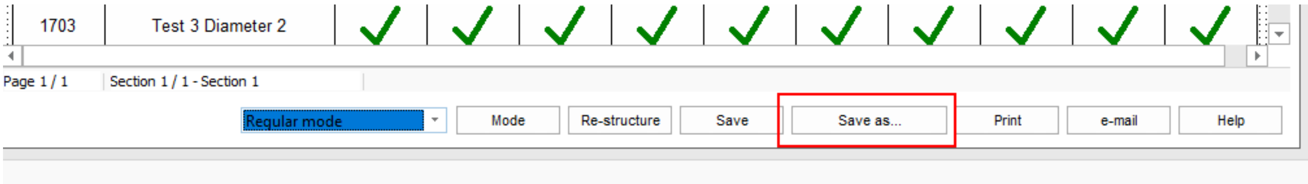
Right-click somewhere in the report and choose the "Form sheet features" option.



Give the sensible name to the report.



In the bottom part of the form designer select “Save as”.



Save the report to desired destination.

3 The result

The report is showing the table of all measured values from all characteristics and its symbol representation based on the setting in the symbol allocation.

The report can be used in the qs-STAT, printed manually or automatically by M-QIS.

HEXAGON | Process Capability Analysis | Date 07/03/2024 | Page 1 / 33

Op.Name.	NN	Evaluation	from 10/05/2001 19:50:31	to	12/08/2001 20:17:33
Part no.	F 123	OP no.	n/a	Drw.No.	n/a
Part descr.	Test Defective Units No.2			Mach.Descr.	n/a
Part remark	Workexample for Grafic Defects/no. of non conforming units				

Part no.	F 123					Part descr.	Test Defective Units No.2				
Char.No.	Char.Descr.	x_1	x_2	x_3	x_4	x_5	x_6	x_7	x_8	x_9	x_{10}
1601	Test 1 Diameter 1	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
1602	Test 2 Diameter 1	✗	✓	✗	✗	✓	✓	✓	✓	✓	✓
1603	Test 3 Diameter 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1604	Test 4 Diameter 1	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗
1605	Test 5 Diameter 1	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
1606	Test 6 Diameter 1	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
1607	Test 7 Diameter 1	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
1701	Test 1 Diameter 2	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
1702	Test 2 Diameter 2	✗	✓	✗	✗	✓	✓	✓	✓	✓	✓
1703	Test 3 Diameter 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1704	Test 4 Diameter 2	✓	✗	✗	✗	✗	✗	✗	✓	✓	✗
1705	Test 5 Diameter 2	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
1706	Test 6 Diameter 2	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
1707	Test 7 Diameter 2	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
1801	Test 1 Diameter 3	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
1802	Test 2 Diameter 3	✗	✓	✗	✗	✓	✓	✓	✓	✓	✓
1803	Test 3 Diameter 3	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓
1804	Test 4 Diameter 3	✗	✗	✗	✗	✗	✗	✗	✓	✓	✗
1805	Test 5 Diameter 3	✗	✗	✗	✗	✓	✓	✓	✗	✓	✓
1806	Test 6 Diameter 3	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
1807	Test 7 Diameter 3	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓

14 / 231219 PC_symbol-allocation_individual-values.def Out_of_Spec_2.dfg
SuperUser -das\Share\PLANT\DEFAULT\Examples\20_Process-Capability-Analysis\