



BCP Test Manual

Test Cases for BCP Test Installations

Notes

The latest version of this documentation can be found in the QuantityWare [Knowledge Base](#). All documentation is kept current for the combinations of latest BCS release with the latest supported SAP Oil, Gas, & Energy release. For all currently supported combinations see [Note #000086 "Support and Release \(Lifecycle\) details" page 2, "Release Lifecycle"](#).

Your release level can be determined via:

`"/o/QTYW/COCKPIT" -> "Cockpit" -> "Support Package Level"`

Version History

Version	Date	Description
00	2015-05-01	Initial Version
01	2017-11-11	Editorial changes
02	2019-06-25	Editorial changes
03	2020-07-14	Editorial update
04	2021-09-24	S/4HANA 2020 / 2020_EX validity confirmed - modern QW document style applied - 30A CSP02 / 30B CSP01 changes
05	2023-11-01	30A CSP03 / 30B CSP02 changes

Contents

1. Introduction	4
2. Test Cases	7
2.1. Test Case 01 – Run Installation Test - Template	7
2.2. Test Case 02 – Identify & Copy LPG Conversion Group - Template	13
2.3. Test Case 03 – Build Transport for LPG Conversion Group - Template.....	30
2.4. Test Case 04 – Test LPG Conversion Group - Development.....	34
2.5. Test Case 05 – Define UoM Rounding - Development	39
2.6. Test Case 06 – Define Ranges for LPG Conversion Group - Development.....	42
2.7. Test Case 07 – Define Test Scenarios for LPG Conversion Group - Development.....	49
2.8. Test Case 08 – Assign LPG Conversion Group to Material - Development.....	69
3. Summary	73

1. Introduction

You have obtained a free-of-charge test usage key for QuantityWare BCP – Bulk Calculations Petroleum. Your technical team has installed the software package in one of your test systems, following the BCP Technical Installation Guide. In the QuantityWare template client 045, the BCP BC-set has been activated. Your task is now to test BCP within the next 4 weeks (possibly with an extension period granted by QuantityWare).

QuantityWare provides three major customizing and configuration documents along with the BCP software package:

- The BCP Project and Implementation Guidelines – BCP PAIG
- The BCP Supported Standards Manual
- The BCP Documentation Reference Manual

If you decide to conclude a usage agreement for BCP, it is strongly recommended that you consider these three documents - follow the PAIG Methodology to implement BCP into your system landscape as well as familiarizing yourself with the BCP Supported Standards Manual and the BCP Documentation Reference Manual.



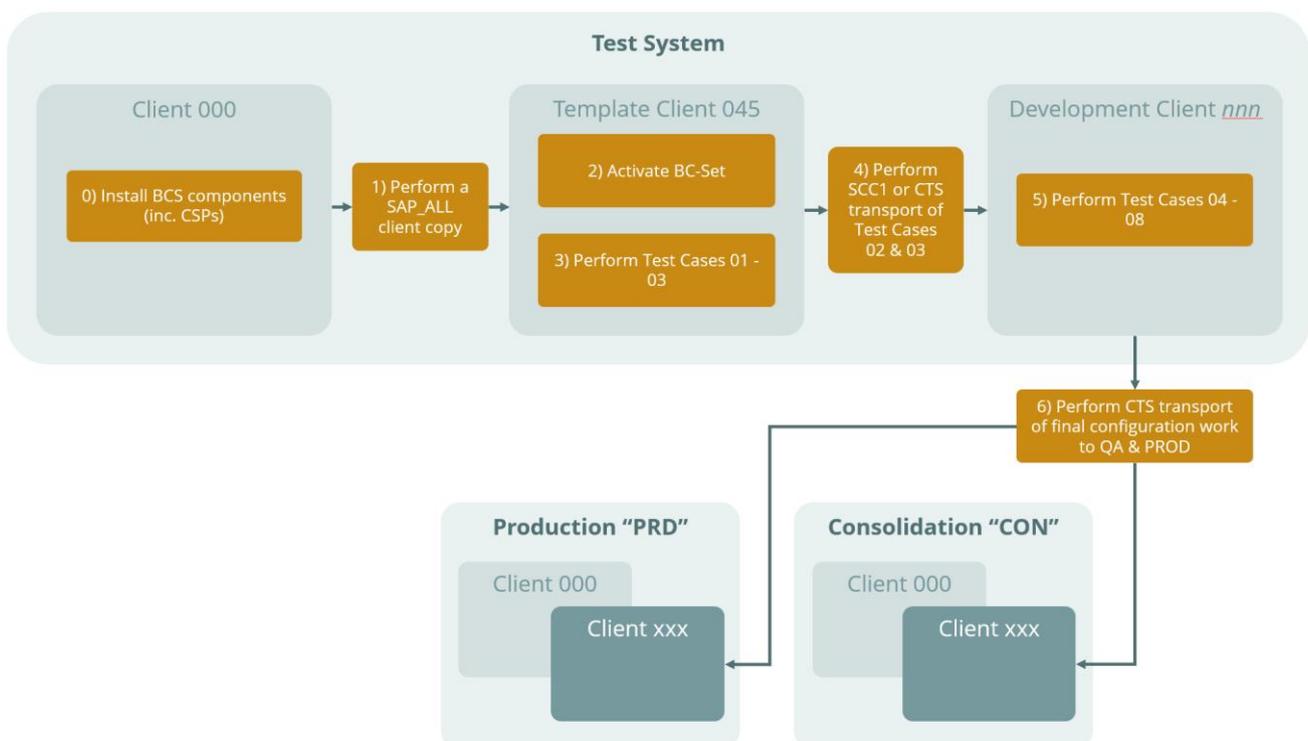
QuantityWare strongly recommends that a certified BCP consultant is employed for the implementation project, or that before implementation, you attend the appropriate BCP certification course.

During the 4 week testing period, you may not have a certified BCP consultant available, and you may not have attended a certification course. Typically, testing time budgets are limited and detailed quantity conversions' configuration knowledge is not commonplace; in order to provide detailed guidance for your testing efforts, this document - the BCP Test Manual - provides a sequence of **eight (8) test cases** which you may execute in your system in order to define a production ready conversion group in your development/test client – including automated test scenarios - based on the BCP template configuration.

The Petroleum Measurement Cockpit (PMC) is the central access point for the configuration and testing of all quantity conversion settings in your system. Thus, all test cases are executed via the PMC. The only exception to this rule is test case 08. There, you require the authority to assign a conversion group and UoM group to a material in the material master.

Each test case contains a sequence of actions to be performed in the BCP Petroleum Measurement Cockpit. These are illustrated with screen shots, to ensure that you can easily identify all steps and execute the test case.

To execute the test cases in your test system, you require access to the **QuantityWare template client 045** and to your development client. In that client, all your business process' configuration data is available, as illustrated below:



In summary, through execution of the 8 test cases you:

- Understand how you selectively probe the rich BCP template in client 045
- Learn how to copy required conversion group configuration data to your Z* name space
- Transport that data to your development client for additional tests and final configuration.



In order to execute the test cases, you must be familiar with SAP customizing transactions and have knowledge of working with SAP customizing transports. Additionally, good SAP QCI knowledge is required. In order to reduce the number of required screen shots for this document, customizing actions such as copying an object typically omit obvious steps.

The total execution time for all 8 test cases – if your user ID is equipped with all required authorizations – is estimated to be **3 hours** if you fulfill the above noted requirements.

If your organization is unfamiliar with the requirements for quantity conversions or has no documentation / experience concerning existing system configuration in this area, QuantityWare strongly recommends using the services of a QuantityWare certified consultant already at this early stage. QuantityWare can provide your organization with a [list of companies and independents](#) offering such consulting. QuantityWare does not offer such consulting itself and support will not provide remote consulting through the service portal.



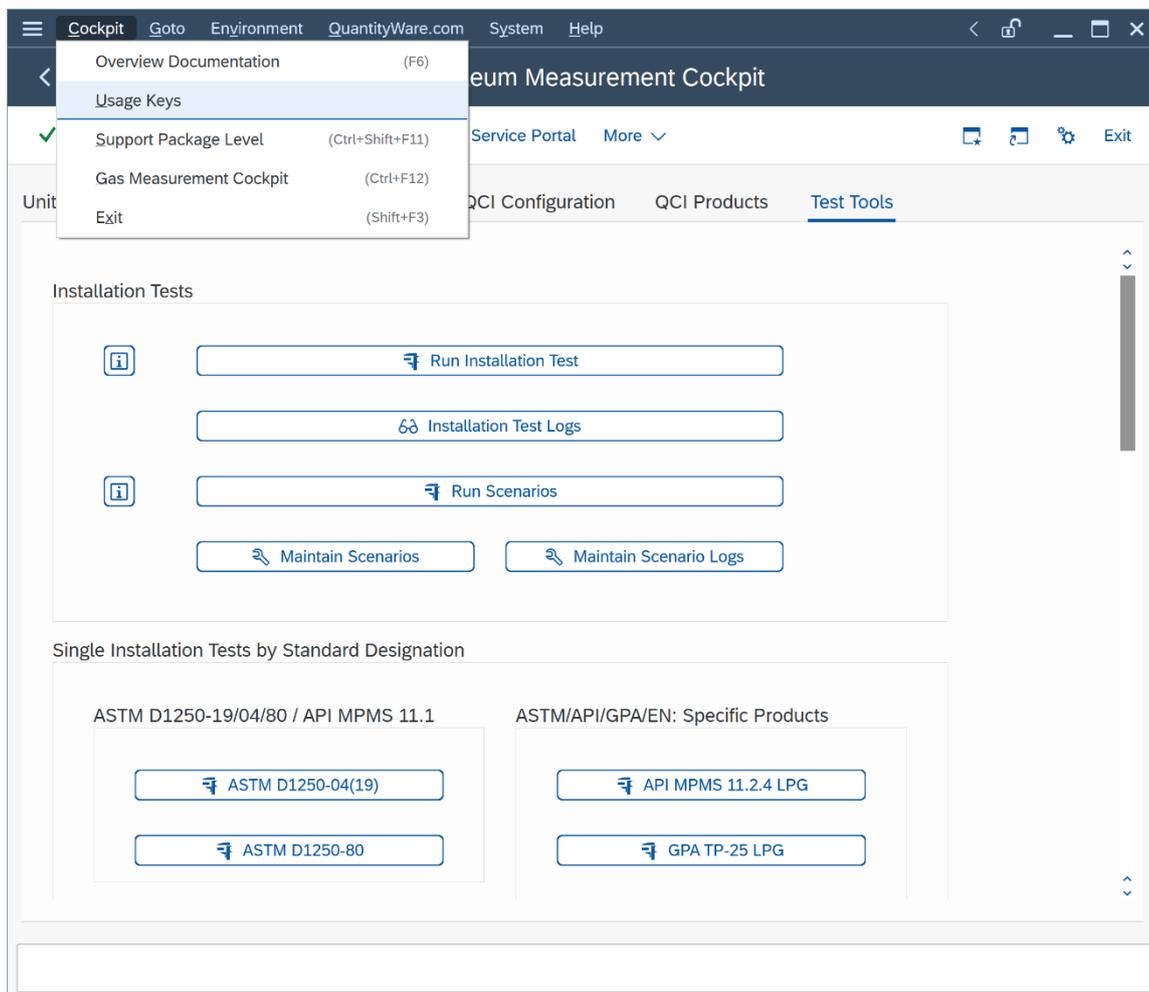
If you are planning to run BCP within your SAP PRA installation, test case 08 is not relevant for you. SAP PRA requires the assignment of a conversion group to a delivery network. Read the QuantityWare working paper "[PRA Measurement System Integration](#)" available in the Knowledge Base at www.quantityware.com for additional guidance.

2. Test Cases

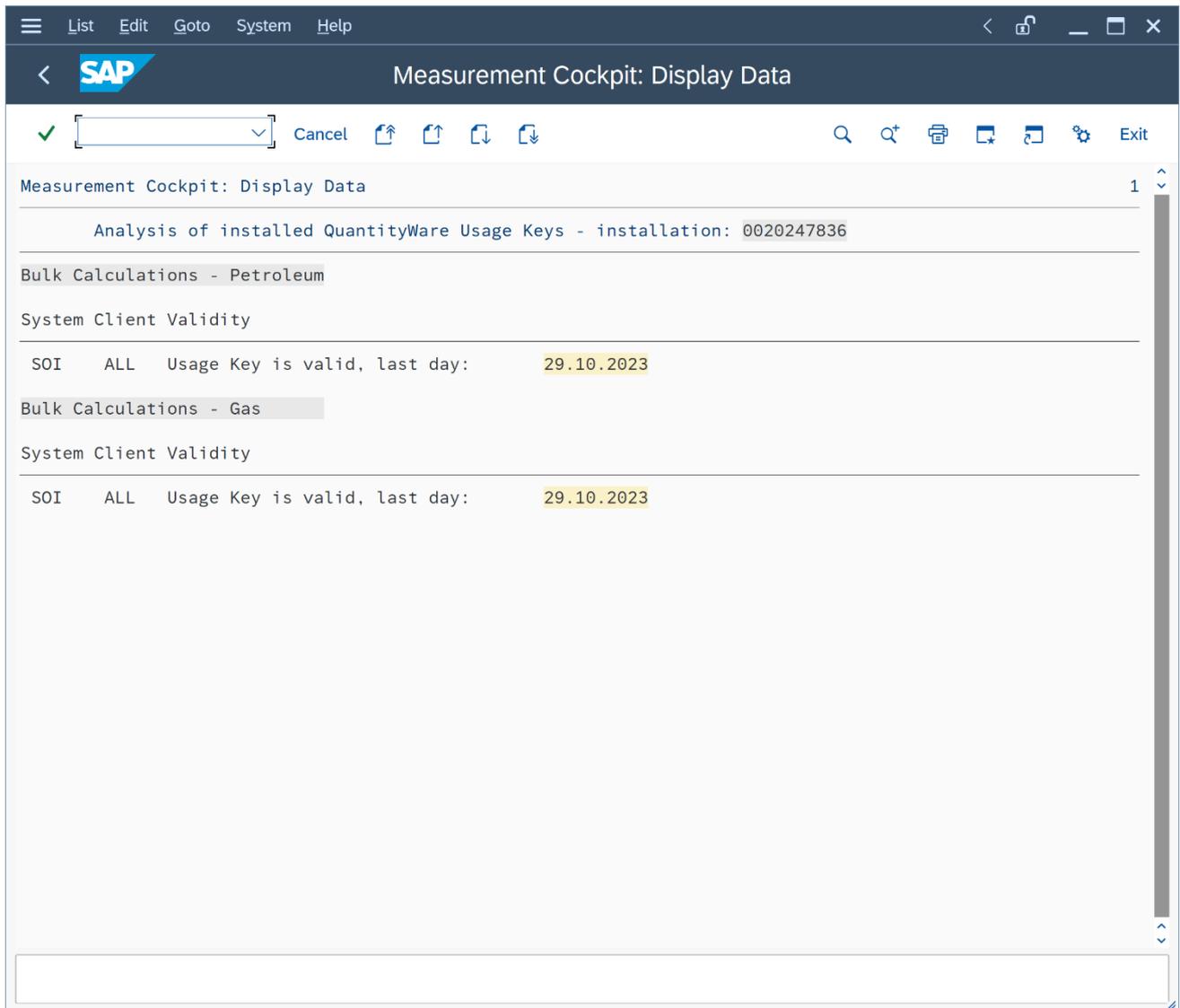
2.1. Test Case 01 – Run Installation Test - Template

Estimated test case execution time: 10 minutes

Part 1 - Log on to your template client 045 and launch the Petroleum Measurement Cockpit (PMC) – Transaction /N/QTYW/COCKPIT. You first need to check if your basis team has installed the BCP test usage key. From the Petroleum Measurement Cockpit (PMC) menu select: Cockpit -> Usage Key. Then, select “Display” and note the list display:



The screenshot shows the SAP Measurement Cockpit interface. At the top, there is a dark blue header with the SAP logo and the text 'SAP'. Below the header, there is a navigation bar with a green checkmark, a dropdown menu, and several icons. The main content area is light gray and contains a dialog box titled 'Measurement Cockpit: Install & Display QuantityWare Usage ...'. The dialog box has a close button (X) in the top right corner. Inside the dialog, there are two sections: 'Display installed usage keys:' with the instruction 'Press - "Display"', and 'Install new usage key:' with the instruction 'Enter the new usage key into the input field below, then: Press - "Install"'. Below the instructions, there is an input field labeled 'New usage key:'. At the bottom of the dialog, there are three buttons: 'Install' (with a plus icon), 'Display' (with a refresh icon and highlighted by a yellow box), and a close button (X).



The screenshot shows the SAP Measurement Cockpit interface. The title bar reads "Measurement Cockpit: Display Data". Below the title bar, there is a navigation bar with a green checkmark, a dropdown menu, and buttons for "Cancel", "Print", "Copy", and "Paste". The main content area displays the following information:

Measurement Cockpit: Display Data 1

Analysis of installed QuantityWare Usage Keys - installation: 0020247836

Bulk Calculations - Petroleum

System Client Validity

SOI	ALL	Usage Key is valid, last day:	29.10.2023
-----	-----	-------------------------------	------------

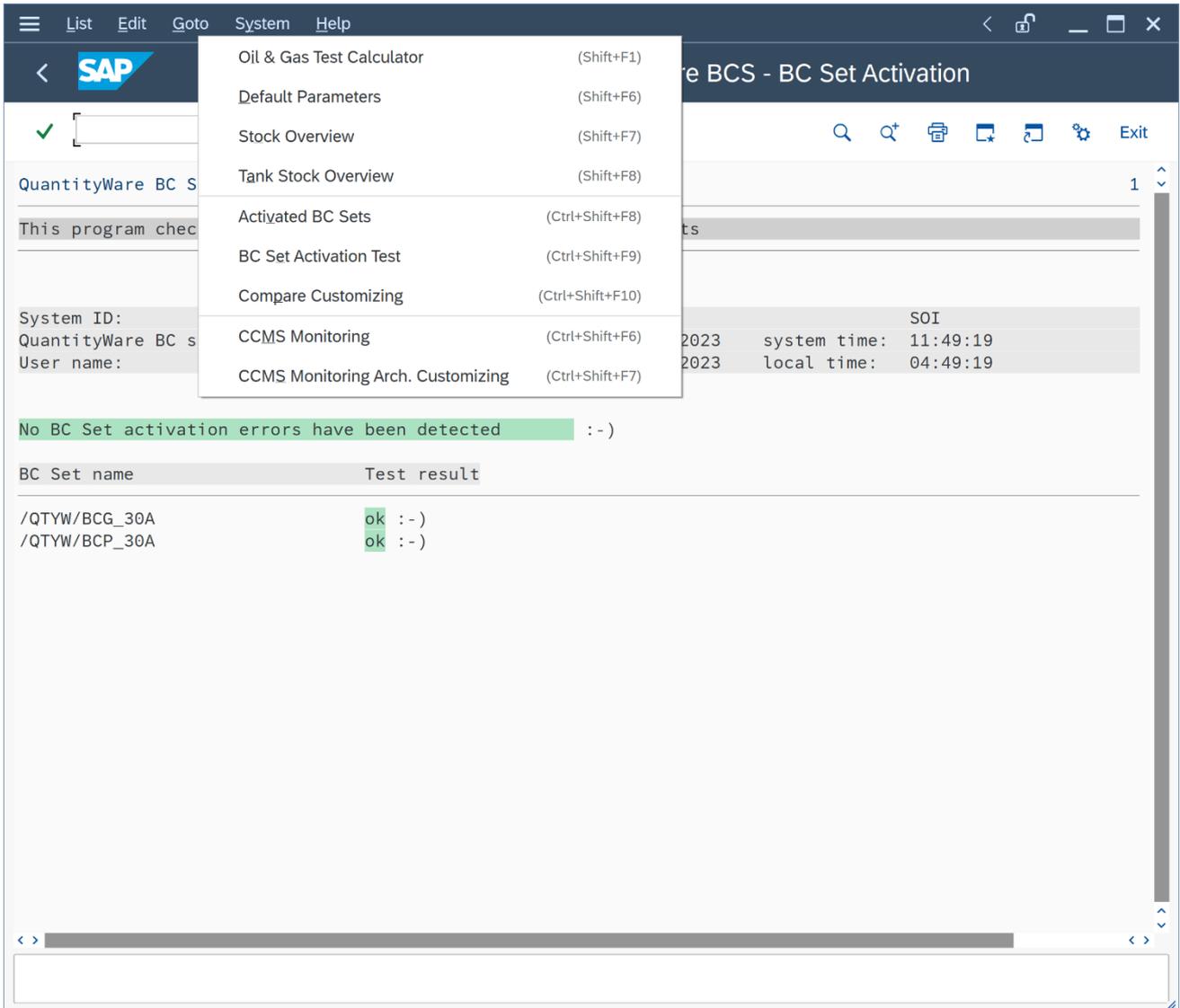
Bulk Calculations - Gas

System Client Validity

SOI	ALL	Usage Key is valid, last day:	29.10.2023
-----	-----	-------------------------------	------------

This looks good 😊, a BCP usage key is in place - in our example we also have a BCG usage key installed, which is not required.

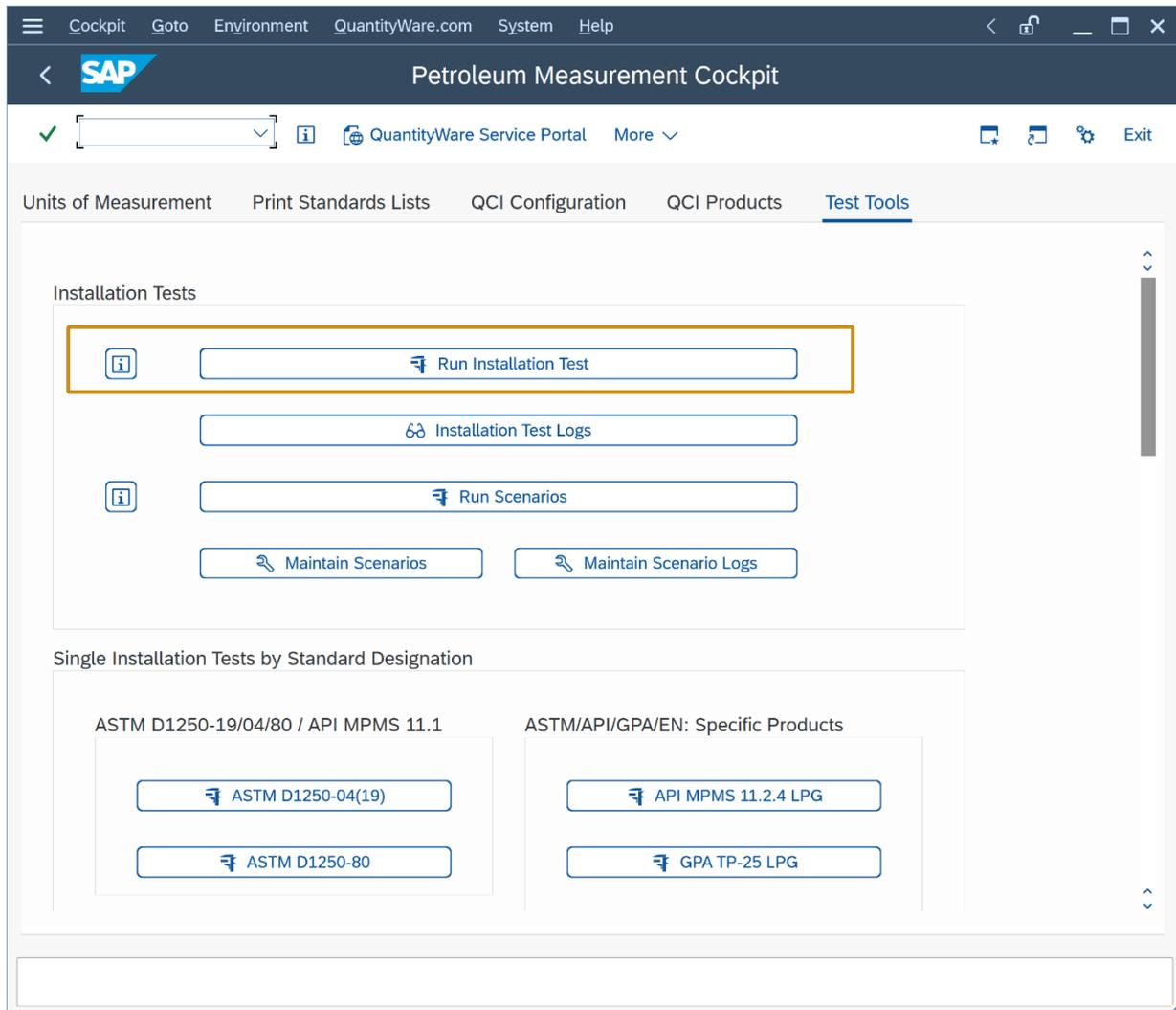
Part 2: From the Petroleum Measurement Cockpit menu select: Environment -> BC Set Activation Test - is performed by the basis team, but a 4-eyes principle is always good.



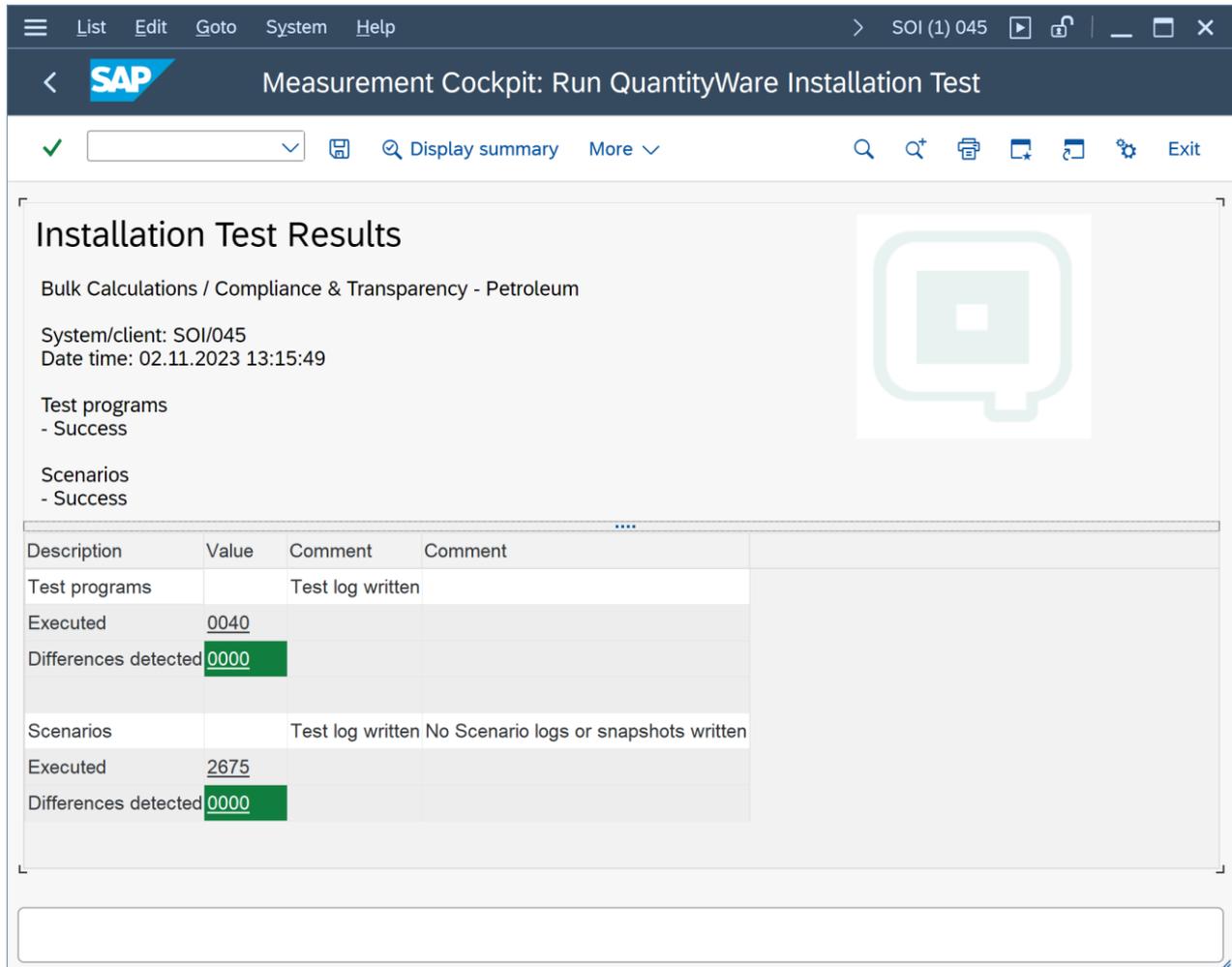
The screenshot shows the SAP QuantityWare interface for the 'BC Set Activation Test'. A menu is open, listing various options with their respective keyboard shortcuts. The 'BC Set Activation Test' option is highlighted. Below the menu, a message states 'No BC Set activation errors have been detected :-)', indicating a successful test. A table displays the test results for two BC Set names: /QTYW/BCG_30A and /QTYW/BCP_30A, both showing 'ok :-)' results.

BC Set name	Test result
/QTYW/BCG_30A	ok :-)
/QTYW/BCP_30A	ok :-)

Part 3: Now you run the QuantityWare Installation Test. Select the PMC “Test Tools” tab strip and select the “Run Installation Test” push button.



All test programs (40 if no customer specific test programs are present in your system) and all 2 675 test scenarios need to run “green” i.e., without error. By clicking on the result line, you obtain a list detailing all scenarios. You may select any scenario to inspect its details.



Installation Test Results

Bulk Calculations / Compliance & Transparency - Petroleum

System/client: SOI/045
Date time: 02.11.2023 13:15:49

Test programs
- Success

Scenarios
- Success

Description	Value	Comment	Comment
Test programs		Test log written	
Executed	0040		
Differences detected	0000		
Scenarios		Test log written	No Scenario logs or snapshots written
Executed	2675		
Differences detected	0000		



If the BCP installation test (validating the BCP template) does not run “green”, do NOT proceed with the following 7 test cases. Before continuing with the steps described in this document, the issues causing the “red” test runs must be resolved. In such cases, the experience and multi-customer knowledge of a certified consultant can pay for itself in time and effort saved.

2.2. Test Case 02 – Identify & Copy LPG Conversion Group - Template

Estimated test case execution time: 30 minutes

The QuantityWare BCP template contains more than 500 conversion groups, mapping all meaningful BCP supported measurement standard combinations. In the template client, QuantityWare also delivers test UoM groups, allowing you to perform test calculations for each template conversion group in that client without having to perform additional intricate configuration. A complete template of more than 400 UoM definitions (4 languages) is provided as a part of the delivery.

Each conversion group is defined by four (4) different measurement standards:

- UoM conversion standard
- Mass-to-weight conversion standard
- CT(P)L standard (“Corrections for the effect of Temperature and Pressure on Liquid”)
- Calculation model standard



SAP QCI conversion groups only differ in the CT(P)L standard, whereas MQCI conversion groups allow combinations of all four groups of standards.

All QuantityWare template conversion groups are defined in the Q* name range.

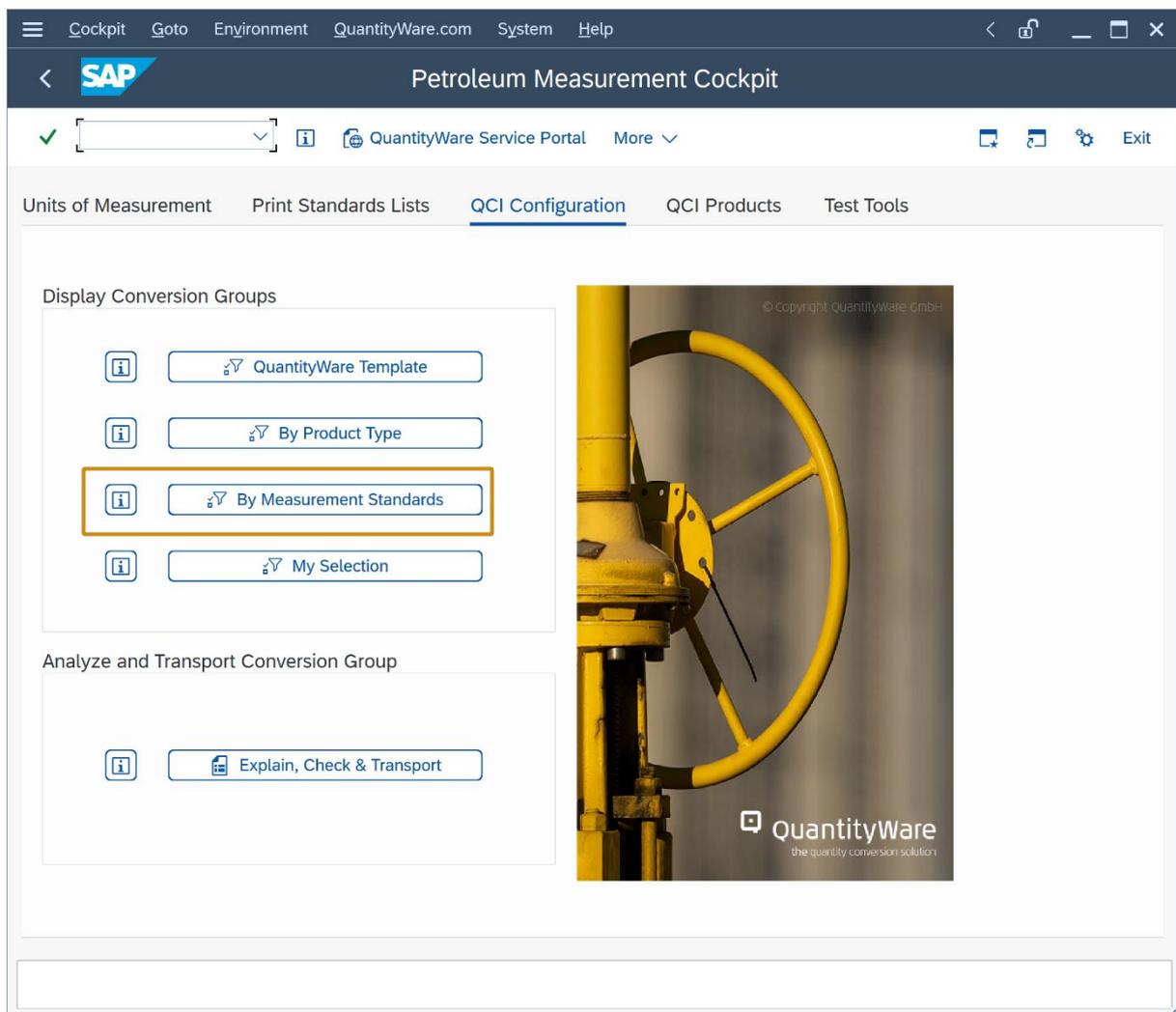
Secondly, a Warning block:

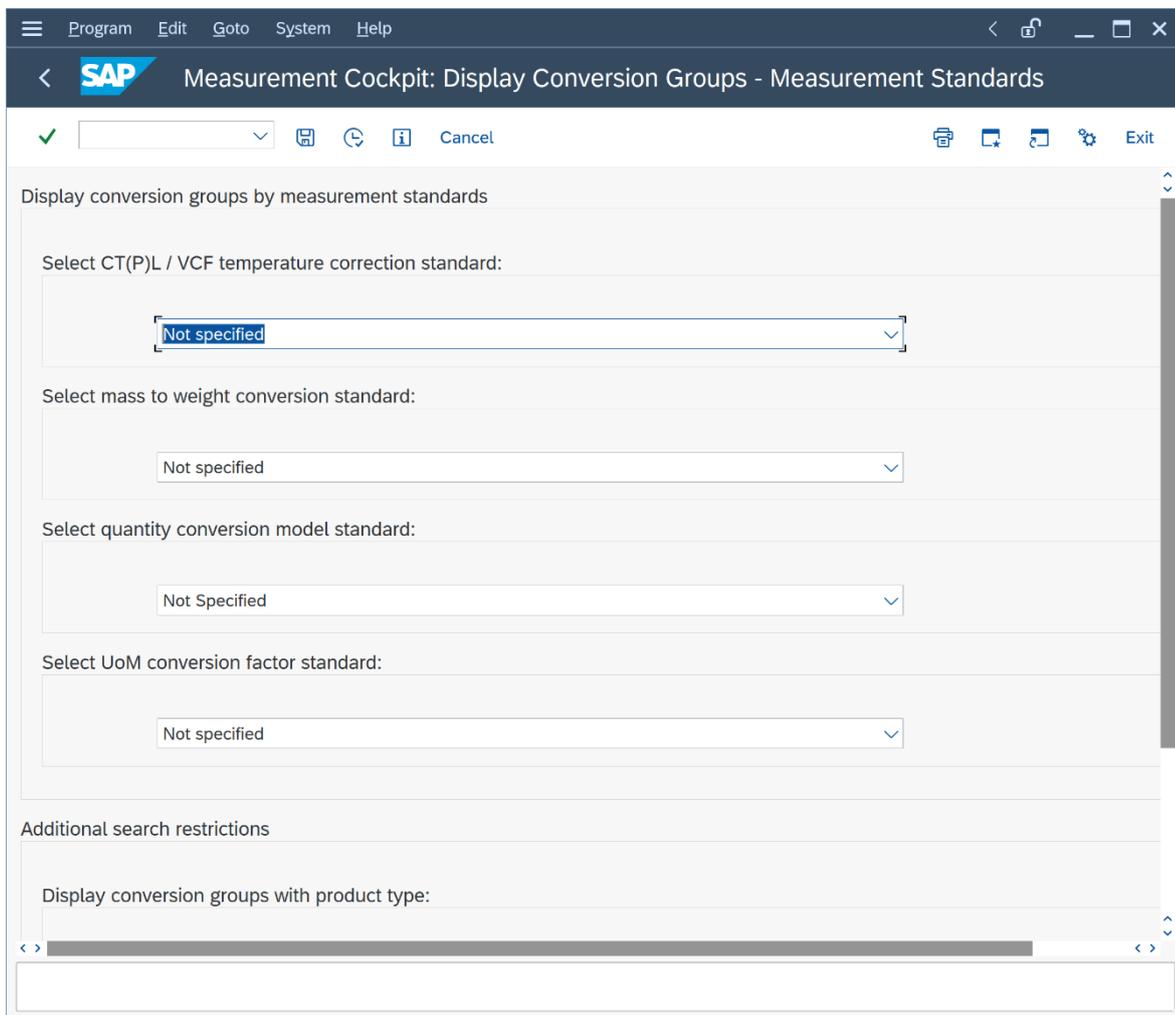


The most challenging task during BCP implementation is the correct selection of a QuantityWare template conversion group for a material (group of materials).

Once this assignment is made, you simply copy the Q*** template conversion group and associated configuration objects (e.g. reading group) to your Z*** name space in the template client. In this document, we assume that you know exactly which measurement standards are relevant for your materials; if this is not the case, see the PAIG document for the required additional time.

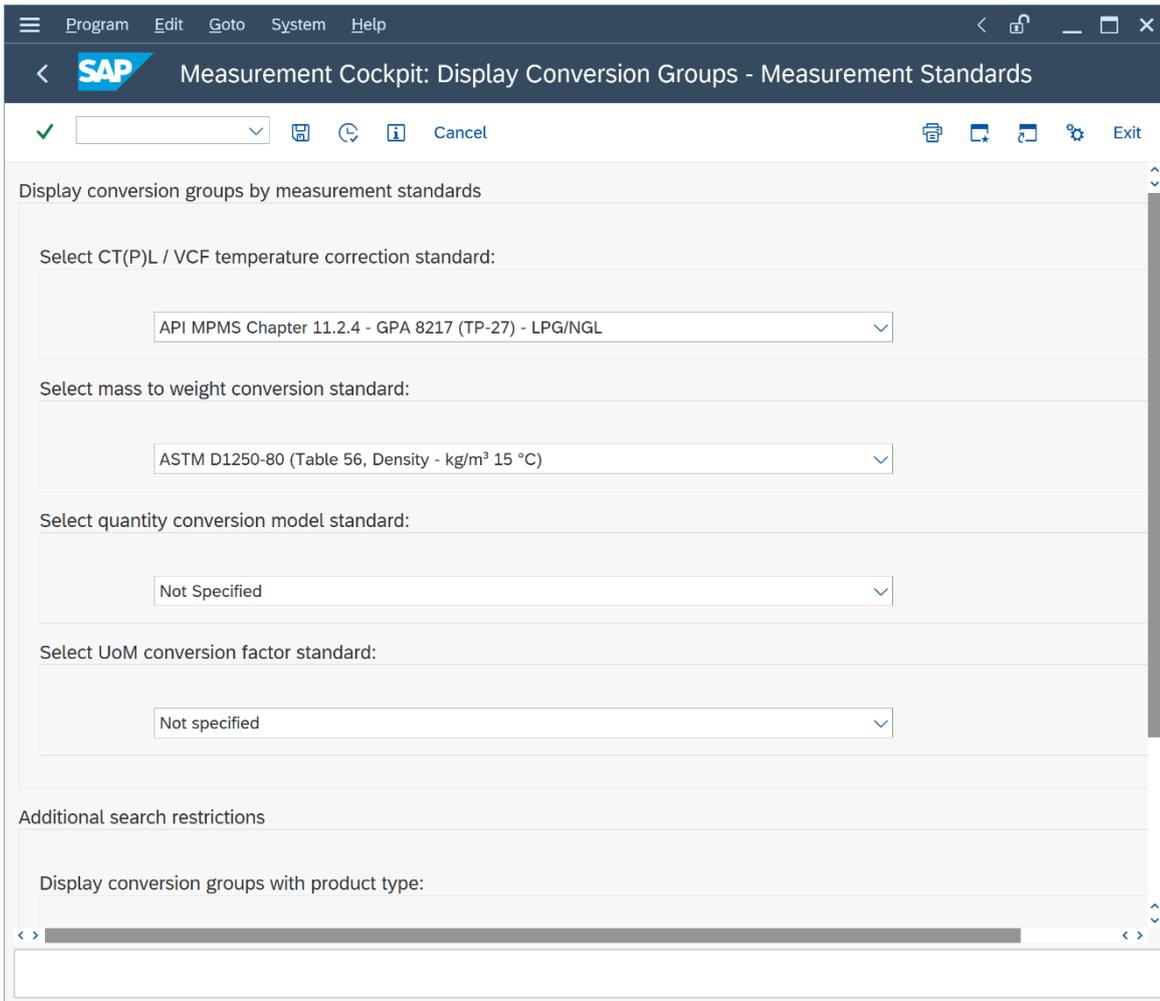
Part 1: Select the PMC “QCI Configuration” tab strip. Several selections are available to display defined subsets of the template conversion groups. Select “By Measurement Standards”:





With this selection, you probe the template conversion groups by measurement standards, additionally you may restrict the search by product type and conversion group base temperature.

For this test case, we wish to determine an LPG conversion group for our LPG products (e.g. commercial propane, commercial butane etc.). Select “API MPMS Chapter 11.2.4 – GPA 8217 (TP-27) – LPG/NGL” as CT(P)L standard, “ASTM D1250-80 (Table 56, Density – kg/m³ 15 °C)” as mass to weight conversion standard and “15 °C” as conversion group base temperature and select “Execute” (F8):



List Edit Goto Settings System Help
 < 🔒 _ □ ×

SAP Measurement Cockpit: Display Conversion Groups - Measurement Standards

✓ [dropdown] [icons] More ▾ 🔍 🔍+ 🖨️ 📄 📄 ⚙️ Exit

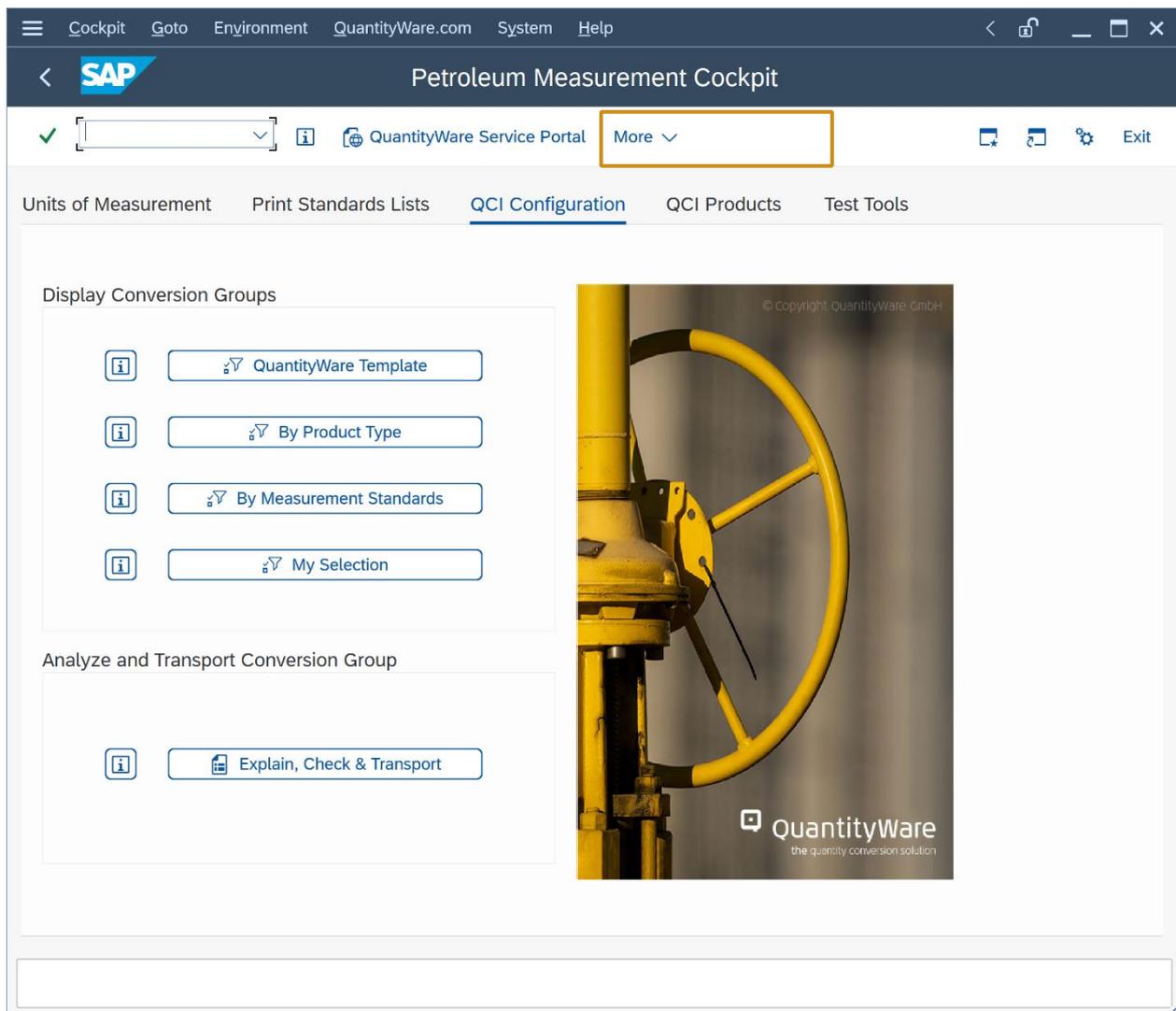
Display Conversion Groups by Measurement Standards

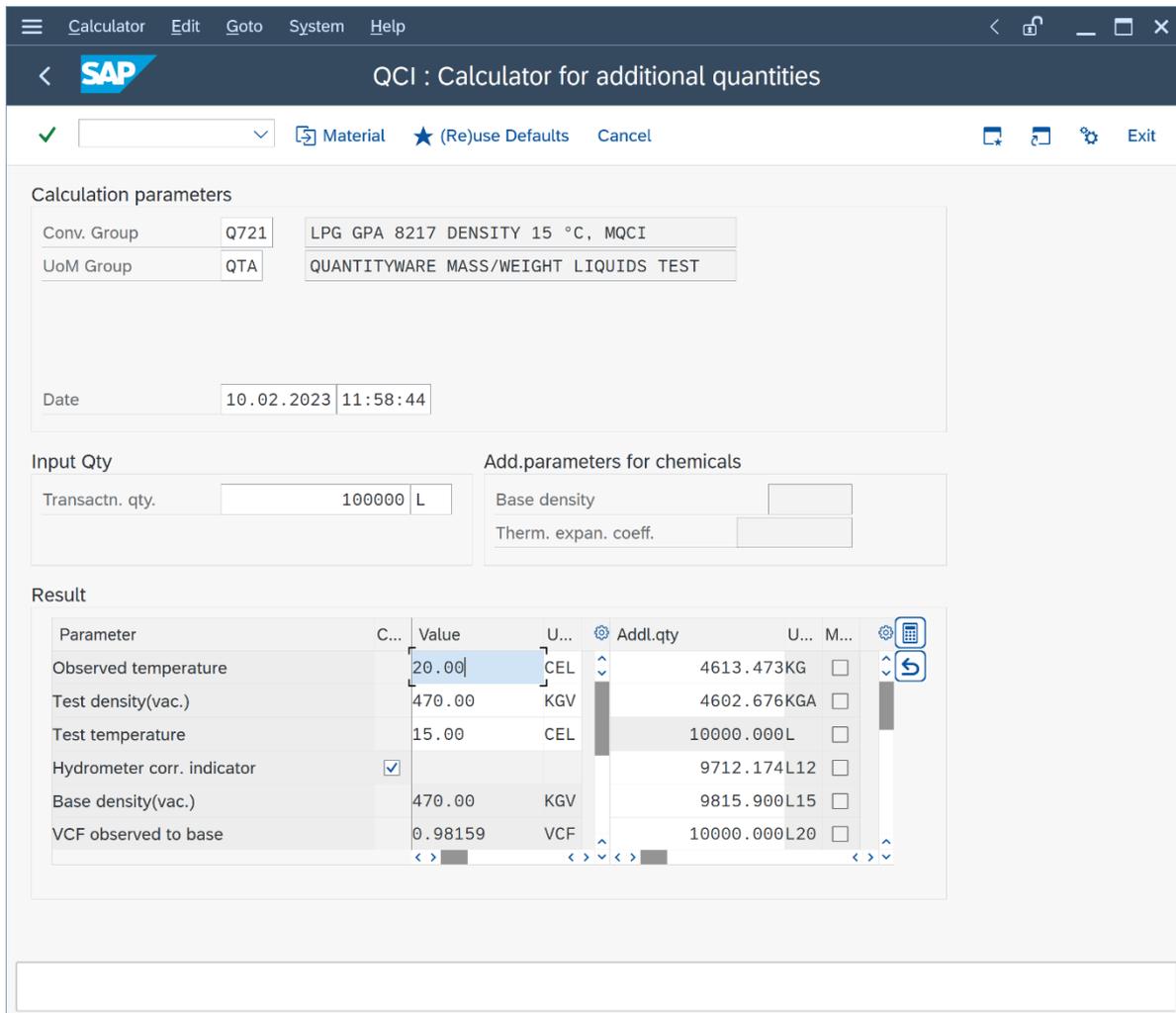
CTPL measurement standard:
 API MPMS Chapter 11.2.4 - GPA 8217 (TP-27) - LPG/NGL
 Weight & mass conversion standard:
 ASTM D1250-80 (Table 56, Density - kg/m³ 15 °C)
 Quantity conversion model standard:
 Not specified
 Unit of measure intraconversion standard:
 Not specified
 Product type:
 Not specified
 15 °C



No	C.Grp	Rdg. group	Ranges	QCI	Set ID	Description	P.t.	Qty.EL %	Qty.WL %	Qty.WH %	Qty.EH %
1	Q721	Q721	Q721	QTYW		LPG GPA 8217 DENSITY 15 °C, MQCI	8	0.50	0.10	0.10	0.50
2	Q72A	Q72A	Q72A	QTYW		LPG GPA 8217 & CPL DENSITY 15 °C, MQCI	8	0.50	0.10	0.10	0.50

Two template conversion groups are available which fulfill your selection criteria. By double-clicking on the description text a detailed description of the conversion group is displayed, in this case informing you that conversion group Q72A is configured for dynamic CPL (pressure correction) calculations too, which is not required. Thus, template conversion group Q721 looks like a good candidate. Let's perform a trial conversion using conversion group Q721. In the PMC, select push button "Oil & Gas Test Calculator" (More ->) to use the calculator in conversion group mode:





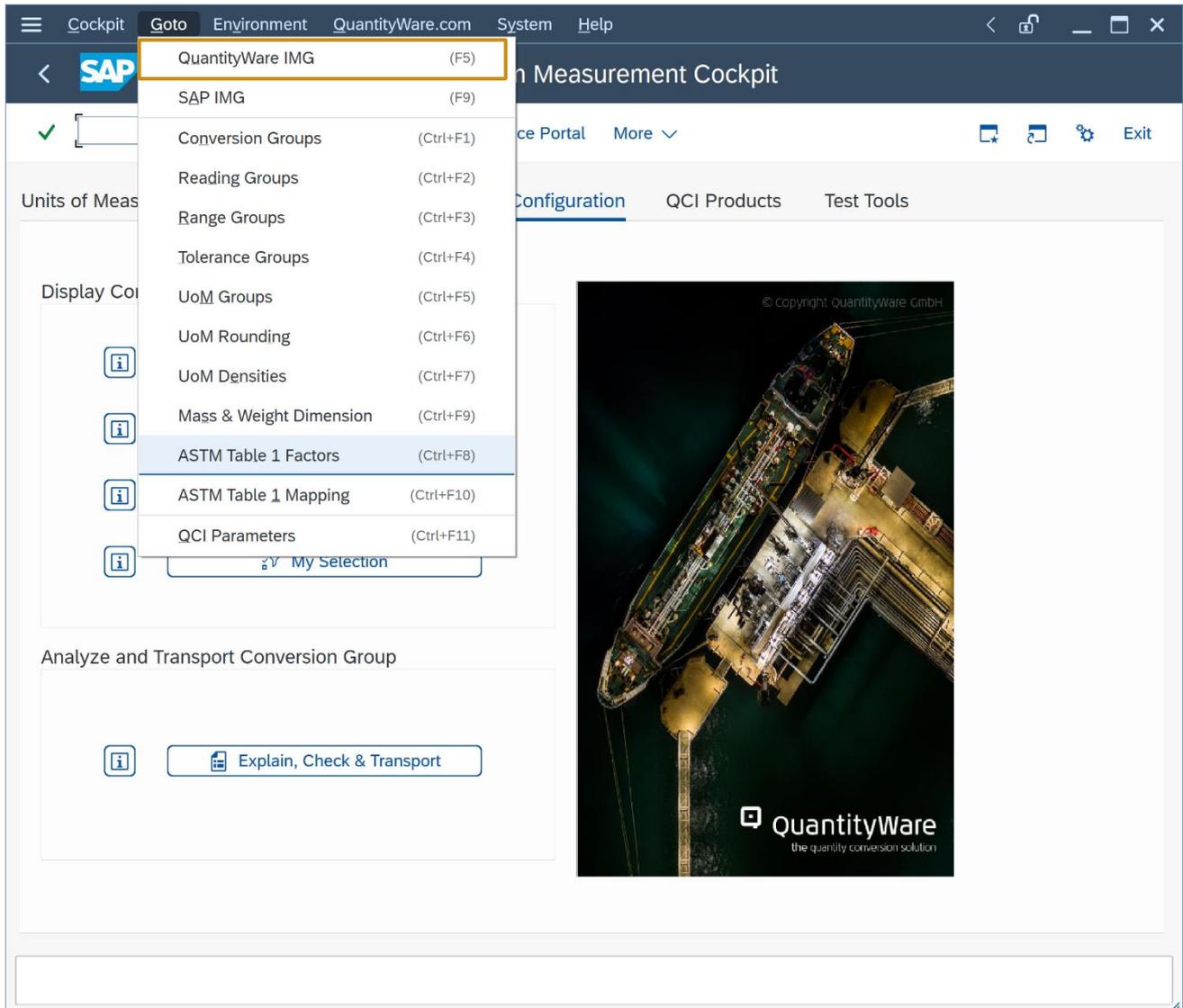
The screenshot shows the SAP QCI Calculator for additional quantities. The interface includes a menu bar (Calculator, Edit, Goto, System, Help), a title bar (QCI : Calculator for additional quantities), and a toolbar with icons for Material, (Re)use Defaults, and Cancel. The main area is divided into several sections:

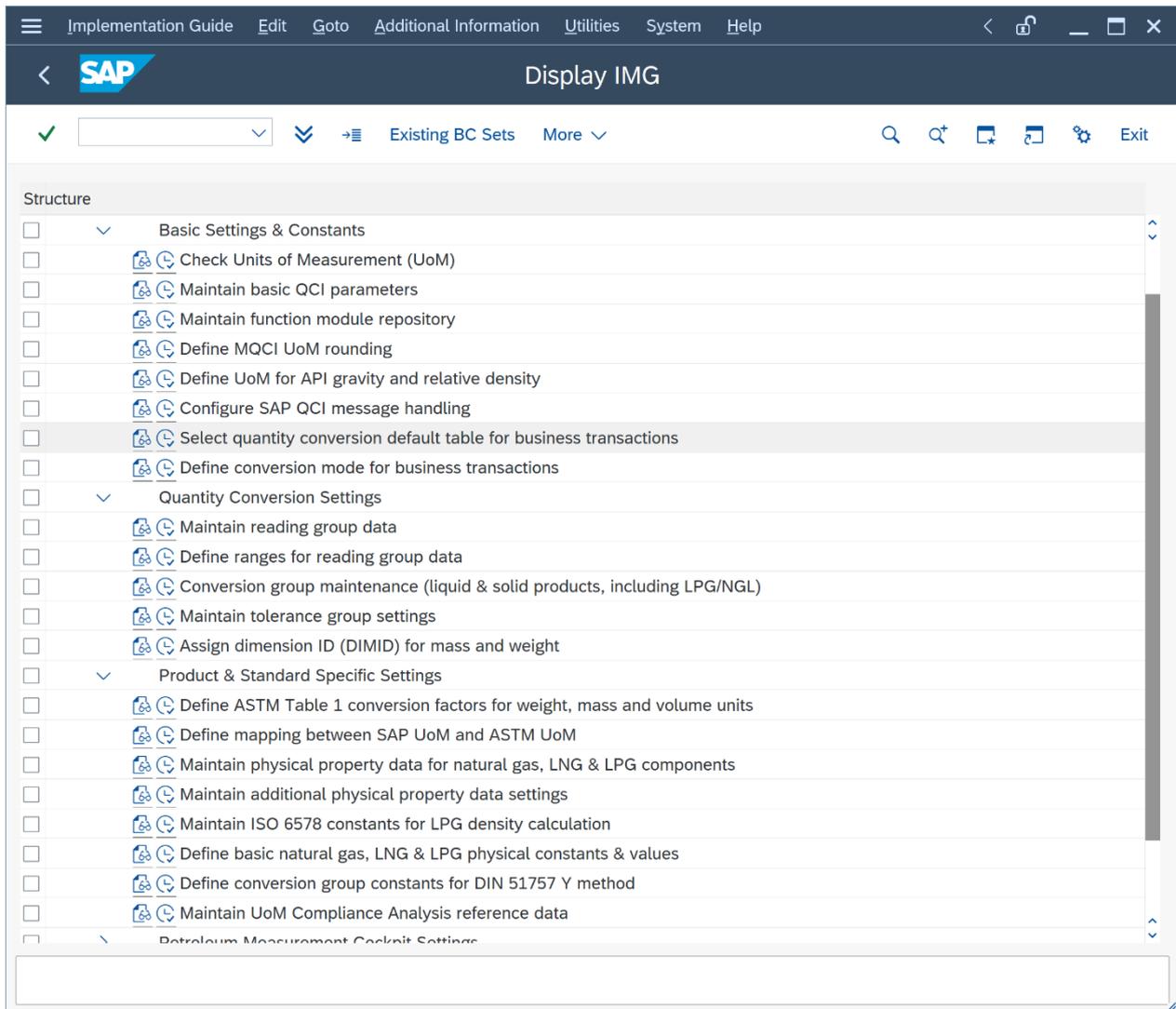
- Calculation parameters:** Conv. Group (Q721), UoM Group (QTA), Date (10.02.2023 11:58:44), and a material selection field (LPG GPA 8217 DENSITY 15 °C, MQCI).
- Input Qty:** Transactn. qty. (100000 L).
- Add.parameters for chemicals:** Base density and Therm. expan. coeff. fields.
- Result:** A table displaying calculated values for various parameters.

Parameter	C...	Value	U...	Add.qty	U...	M...
Observed temperature		20.00	CEL	4613.473KG		
Test density(vac.)		470.00	KGV	4602.676KGA		
Test temperature		15.00	CEL	10000.000L		
Hydrometer corr. indicator	<input checked="" type="checkbox"/>			9712.174L12		
Base density(vac.)		470.00	KGV	9815.900L15		
VCF observed to base		0.98159	VCF	10000.000L20		

Enter conversion group Q721 and test UoM group QTA and a transaction quantity of e.g. 100,000 L. The quantity values for all UoM defined in UoM group QTA are readily calculated. Note that this conversion group is an MQCI conversion group, for which masses (here, UoM KG) and weights (here, UoM KGA) may be calculated in parallel. Additionally, the VCF and "base density in air" are displayed for each calculation as well.

Part 2: Now let's copy template conversion group Q721 in the template client to the customer name range - Z721. You have two options. Either navigate to the QuantityWare IMG via menu path: Goto -> QuantityWare IMG

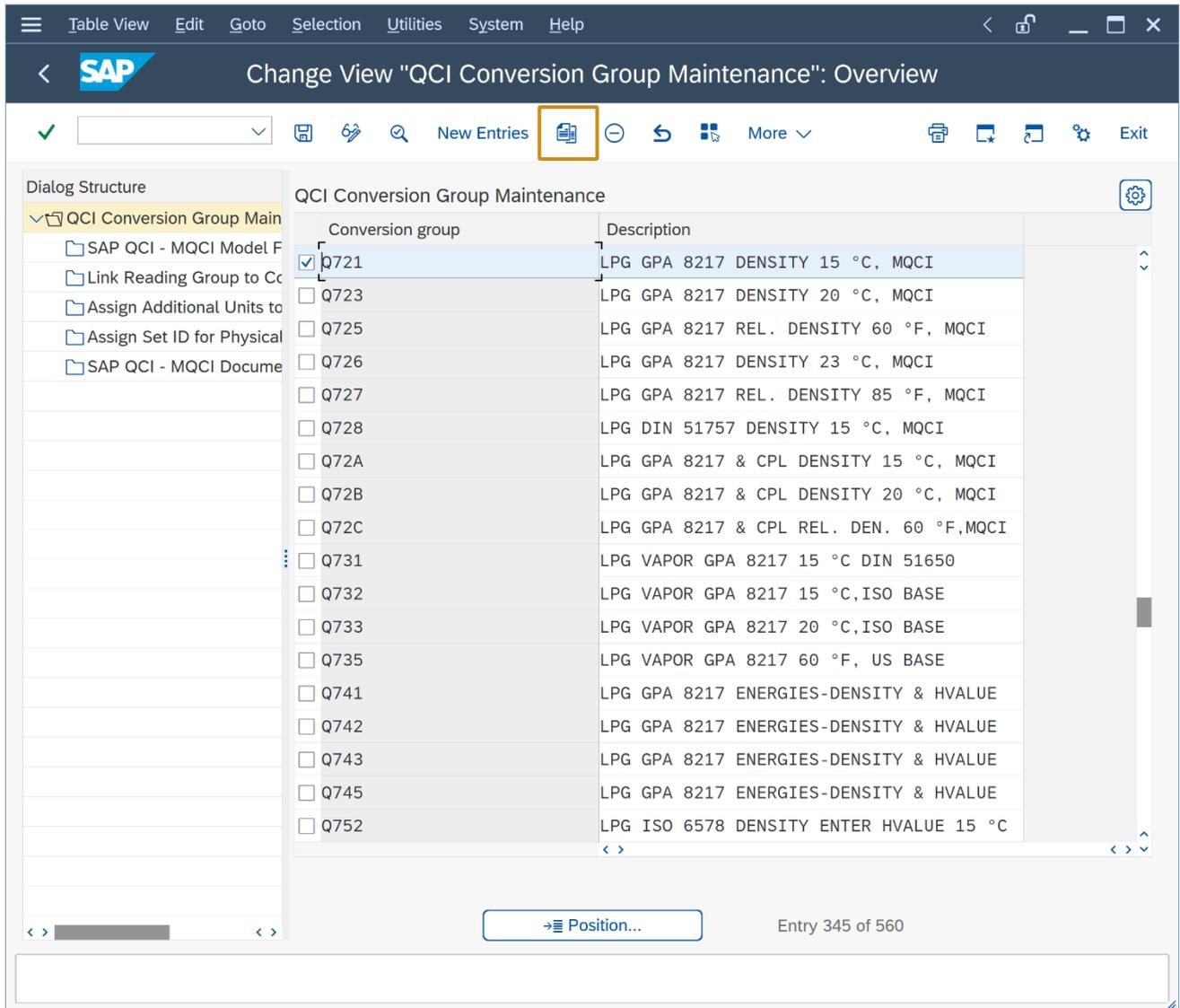




and select the relevant customizing nodes, or directly access the three relevant nodes via the direct menu path access: Goto -> Conversion Groups / Reading Groups / Range Groups The second option is faster, so here goes 😊:

Goto -> Conversion Groups:

In "Change" mode, select conversion group Q721 and select "Copy As ... (F6):



The screenshot shows the SAP S/4HANA 'Change View "QCI Conversion Group Maintenance": Overview' dialog. The 'Copy As ... (F6)' icon in the top toolbar is highlighted with a yellow box. The 'QCI Conversion Group Maintenance' table is displayed with the following data:

Conversion group	Description
<input checked="" type="checkbox"/> Q721	LPG GPA 8217 DENSITY 15 °C, MQCI
<input type="checkbox"/> Q723	LPG GPA 8217 DENSITY 20 °C, MQCI
<input type="checkbox"/> Q725	LPG GPA 8217 REL. DENSITY 60 °F, MQCI
<input type="checkbox"/> Q726	LPG GPA 8217 DENSITY 23 °C, MQCI
<input type="checkbox"/> Q727	LPG GPA 8217 REL. DENSITY 85 °F, MQCI
<input type="checkbox"/> Q728	LPG DIN 51757 DENSITY 15 °C, MQCI
<input type="checkbox"/> Q72A	LPG GPA 8217 & CPL DENSITY 15 °C, MQCI
<input type="checkbox"/> Q72B	LPG GPA 8217 & CPL DENSITY 20 °C, MQCI
<input type="checkbox"/> Q72C	LPG GPA 8217 & CPL REL. DEN. 60 °F, MQCI
<input type="checkbox"/> Q731	LPG VAPOR GPA 8217 15 °C DIN 51650
<input type="checkbox"/> Q732	LPG VAPOR GPA 8217 15 °C, ISO BASE
<input type="checkbox"/> Q733	LPG VAPOR GPA 8217 20 °C, ISO BASE
<input type="checkbox"/> Q735	LPG VAPOR GPA 8217 60 °F, US BASE
<input type="checkbox"/> Q741	LPG GPA 8217 ENERGIES-DENSITY & HVALUE
<input type="checkbox"/> Q742	LPG GPA 8217 ENERGIES-DENSITY & HVALUE
<input type="checkbox"/> Q743	LPG GPA 8217 ENERGIES-DENSITY & HVALUE
<input type="checkbox"/> Q745	LPG GPA 8217 ENERGIES-DENSITY & HVALUE
<input type="checkbox"/> Q752	LPG ISO 6578 DENSITY ENTER HVALUE 15 °C

The status bar at the bottom indicates 'Entry 345 of 560'.

SAP Change View "QCI Conversion Group Maintenance": Details of Selected Se

Conversion group: Description: LPG GPA 8217 DENSITY 15 °C, MQCI

Basic settings

Product type: Liquid petroleum gas (LPG/NGL)

Aromatics:

Dens. Type: Density (absolute)

Density unit: KGV Density unit(ext.):

Extend range of standard implementation

Activate dynamic CPL calculation

Temperature and pressure base settings

Base temperature:

Base pressure:

Standard and model specific settings

Ext Vers: AGA and API 1980 - 2004

Liquid handling: call external routines

Meter CorrFactorInd.

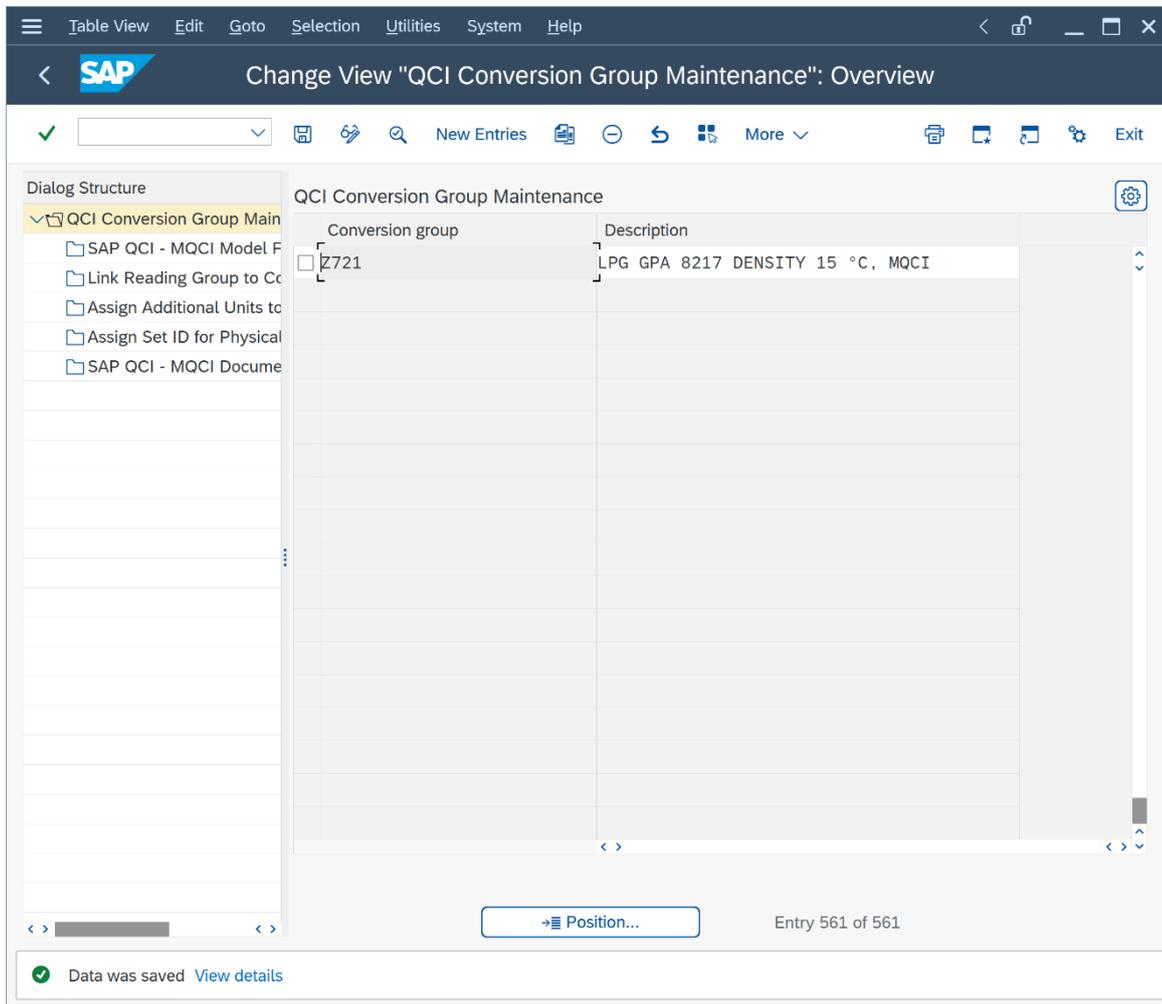
Activate no.rd.: Round CTPL as defined in ASTM D1250-80/04

Vol.correction: First Volume Correction Factor (5 decimal places)

ASTM Table 1: Do not use ASTM Table 1 conversion factors

Specify target entries [View details](#)

In the details screen, enter Z721 as target name and select "copy all" after you press "Return".

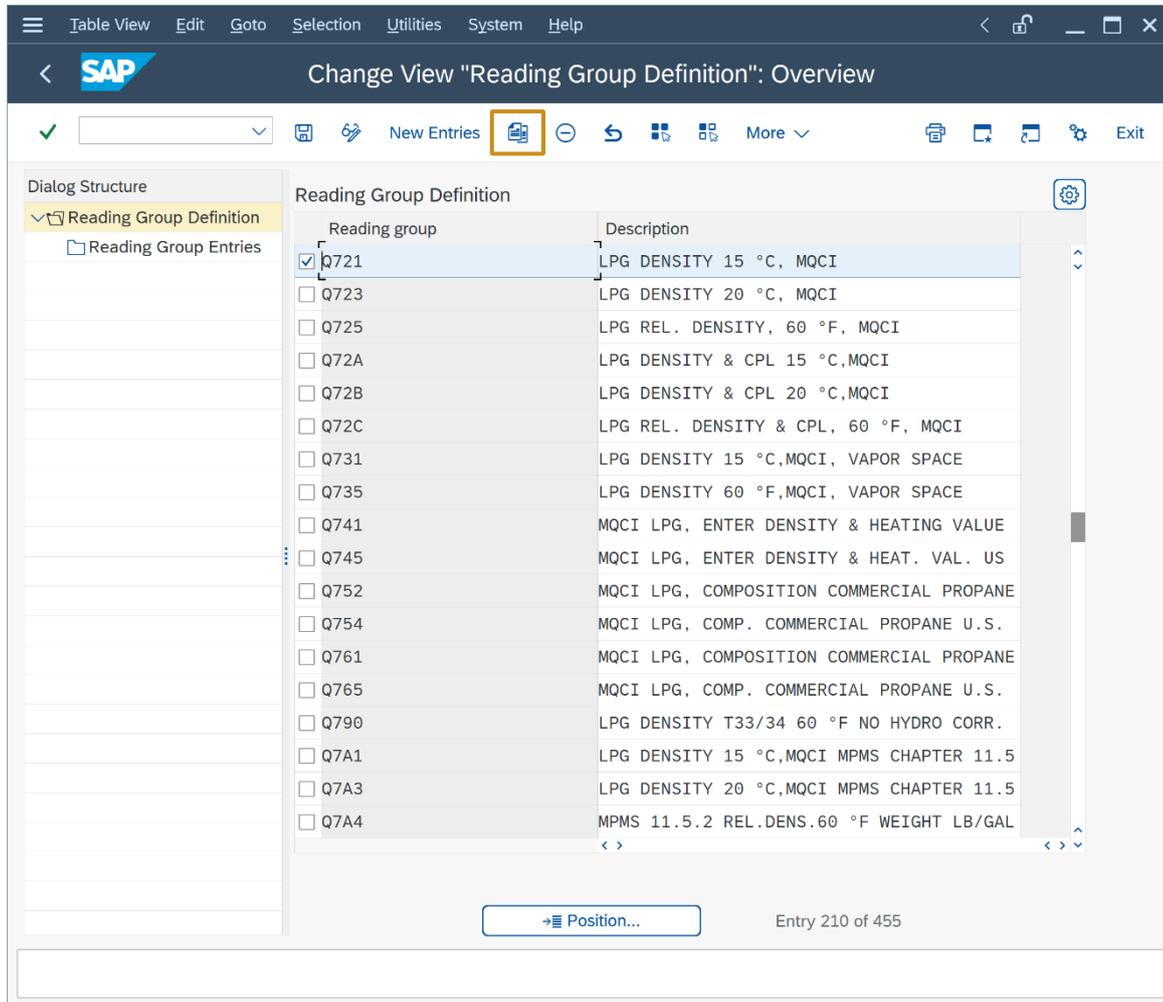


Conversion group	Description
Z721	LPG GPA 8217 DENSITY 15 °C, MQCI

Save your actions and select an appropriate customizing transport.

Goto -> Reading Groups:

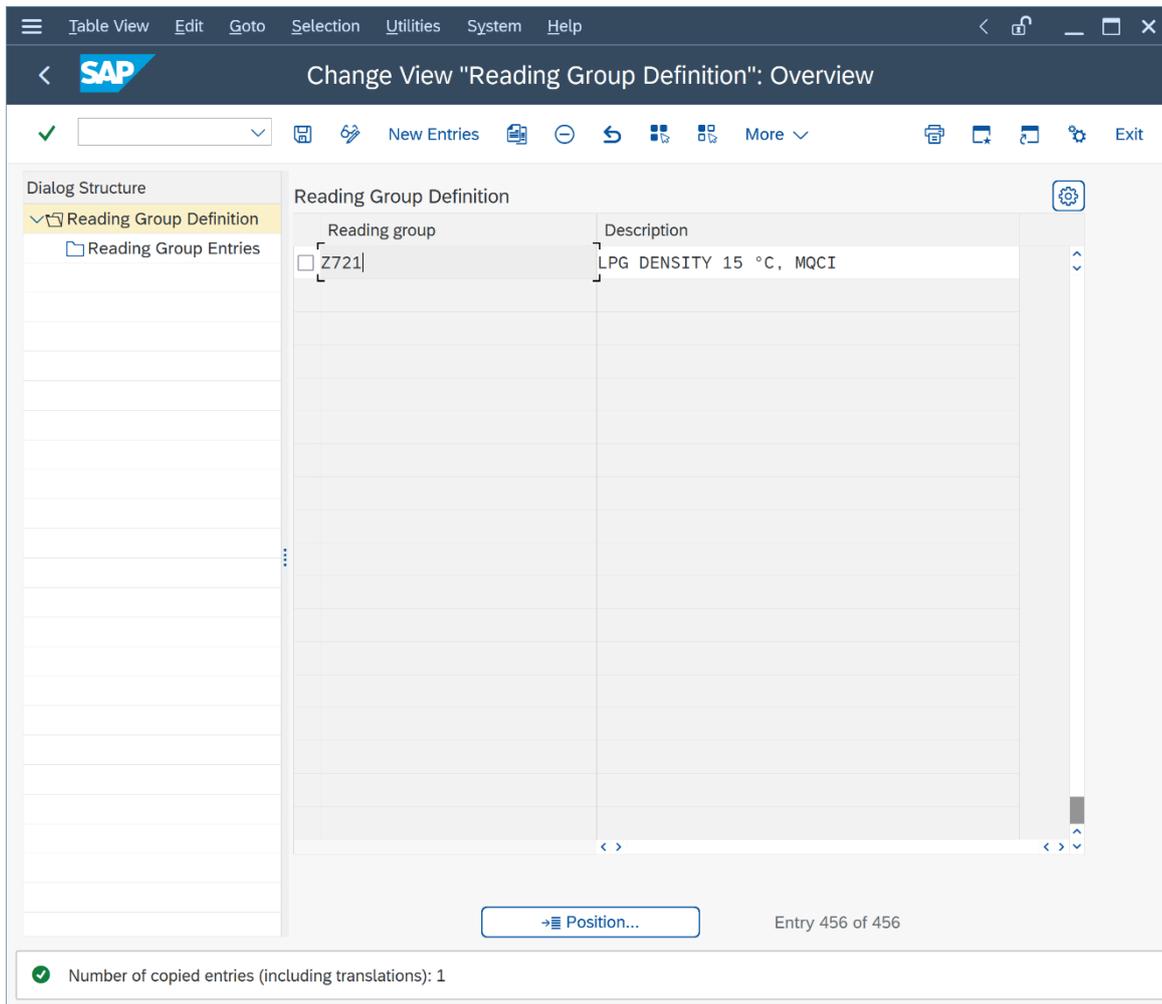
Repeat the copy procedure as described above for reading group Q721:



The screenshot shows the SAP 'Change View Reading Group Definition' dialog box. The 'Reading Group Entries' table is displayed with the following data:

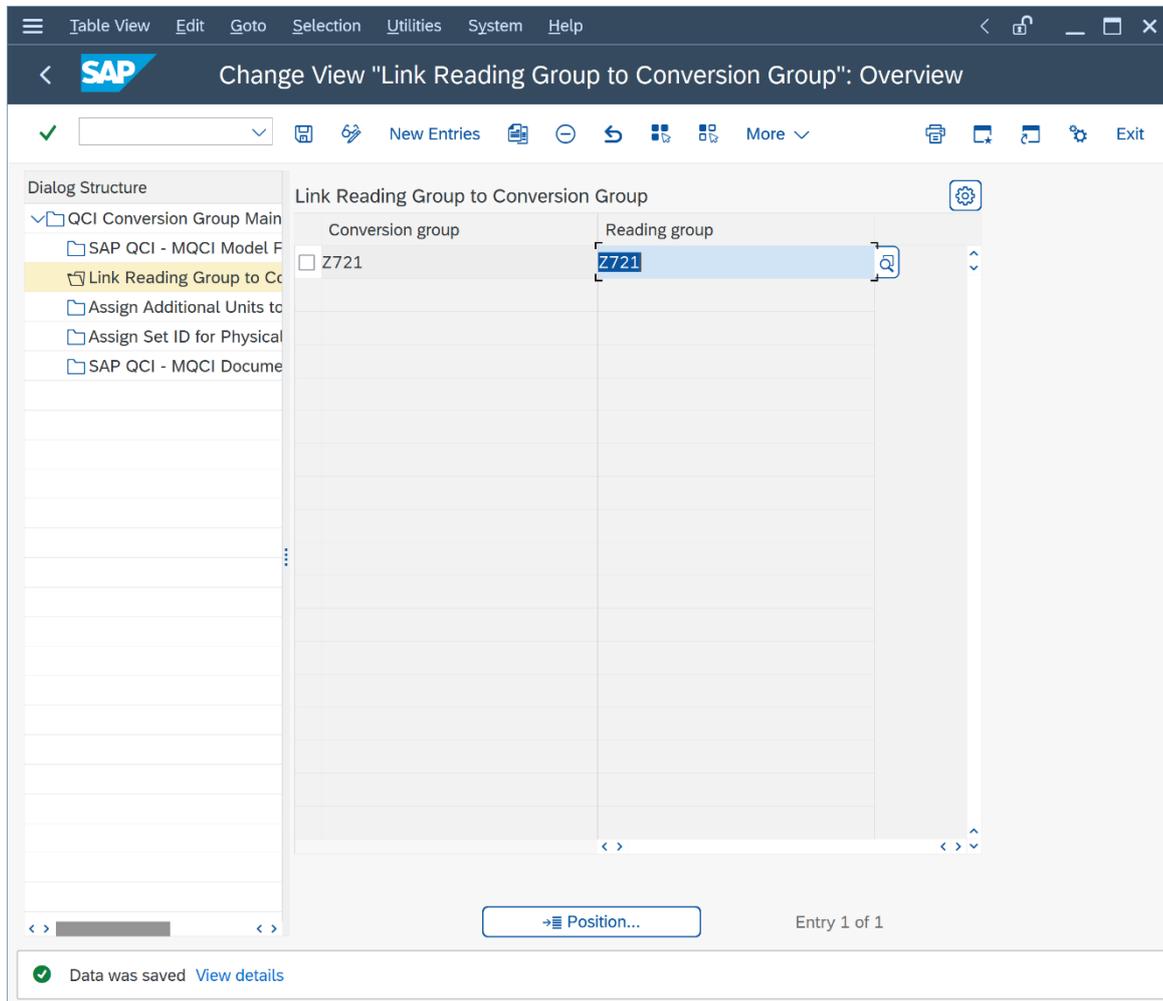
Reading group	Description
<input checked="" type="checkbox"/> Q721	LPG DENSITY 15 °C, MQCI
<input type="checkbox"/> Q723	LPG DENSITY 20 °C, MQCI
<input type="checkbox"/> Q725	LPG REL. DENSITY, 60 °F, MQCI
<input type="checkbox"/> Q72A	LPG DENSITY & CPL 15 °C, MQCI
<input type="checkbox"/> Q72B	LPG DENSITY & CPL 20 °C, MQCI
<input type="checkbox"/> Q72C	LPG REL. DENSITY & CPL, 60 °F, MQCI
<input type="checkbox"/> Q731	LPG DENSITY 15 °C, MQCI, VAPOR SPACE
<input type="checkbox"/> Q735	LPG DENSITY 60 °F, MQCI, VAPOR SPACE
<input type="checkbox"/> Q741	MQCI LPG, ENTER DENSITY & HEATING VALUE
<input type="checkbox"/> Q745	MQCI LPG, ENTER DENSITY & HEAT. VAL. US
<input type="checkbox"/> Q752	MQCI LPG, COMPOSITION COMMERCIAL PROPANE
<input type="checkbox"/> Q754	MQCI LPG, COMP. COMMERCIAL PROPANE U.S.
<input type="checkbox"/> Q761	MQCI LPG, COMPOSITION COMMERCIAL PROPANE
<input type="checkbox"/> Q765	MQCI LPG, COMP. COMMERCIAL PROPANE U.S.
<input type="checkbox"/> Q790	LPG DENSITY T33/34 60 °F NO HYDRO CORR.
<input type="checkbox"/> Q7A1	LPG DENSITY 15 °C, MQCI MPMS CHAPTER 11.5
<input type="checkbox"/> Q7A3	LPG DENSITY 20 °C, MQCI MPMS CHAPTER 11.5
<input type="checkbox"/> Q7A4	MPMS 11.5.2 REL. DENS. 60 °F WEIGHT LB/GAL

The 'New Entries' button is highlighted with a yellow box. The dialog box also shows a 'Position...' button and 'Entry 210 of 455' at the bottom.



Save your copy actions and select an appropriate customizing transport.

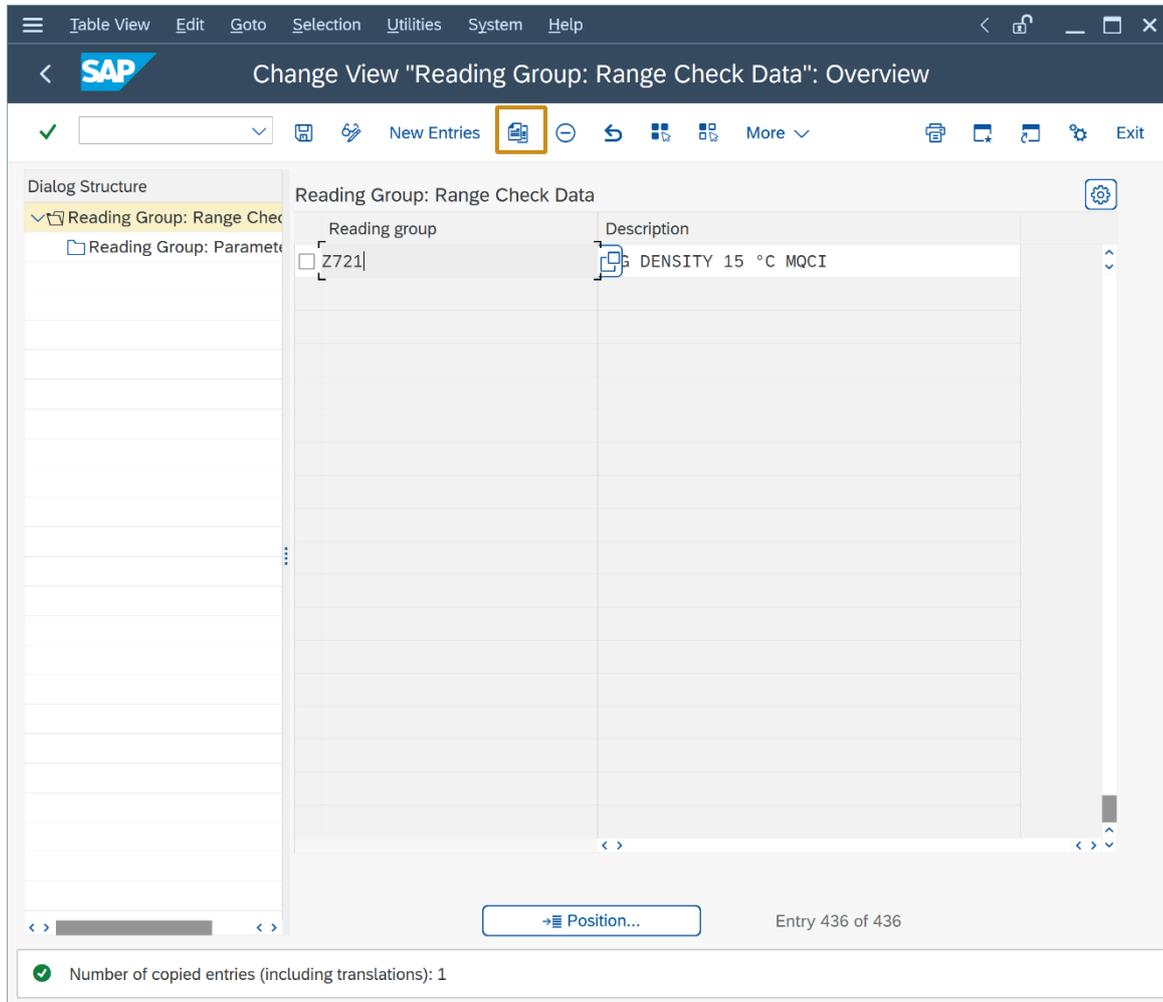
Finally, go back to the conversion group configuration via PMC menu path: Goto -> Conversion Groups and select "Link reading group to conversion group" for your new conversion group Z721:



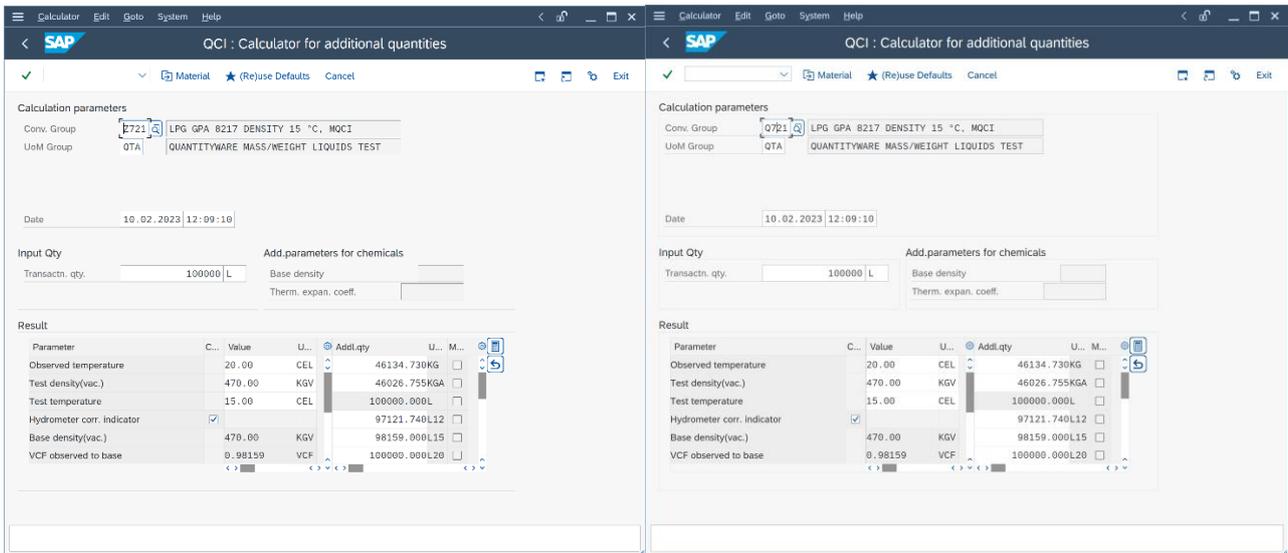
Change the assignment from Q721 to Z721. Save your actions and select an appropriate customizing transport.

Finally, you need to copy the range data from template conversion group Q721 to Z721:

Goto -> Range Groups:



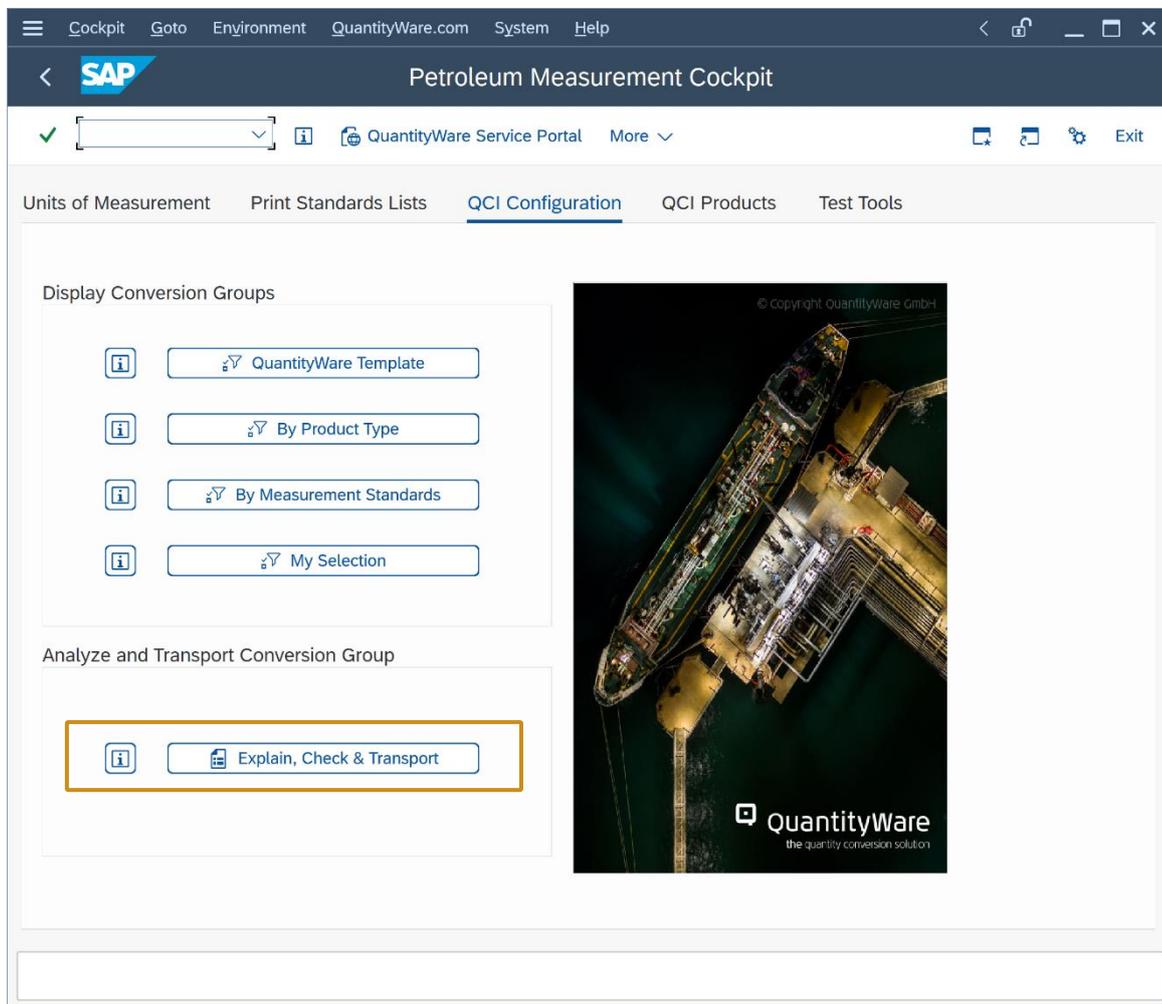
Now you have finished copying template conversion group Q721 to Z721. A test calculation (via the PMC push button “Oil & Gas Test Calculator”) should produce identical results when compared with the test calculation for conversion group Q721:

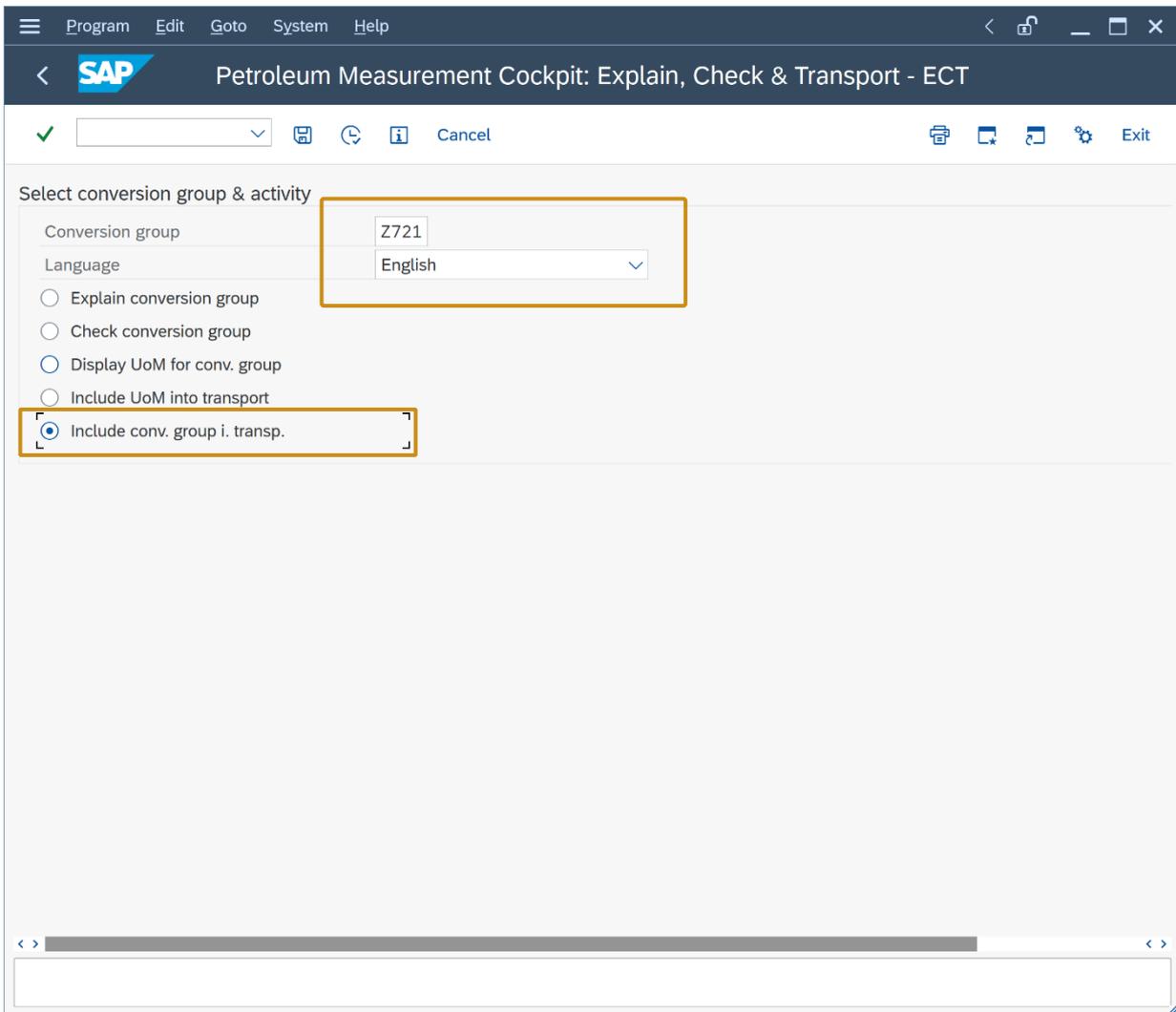


2.3. Test Case 03 – Build Transport for LPG Conversion Group - Template

Estimated test case execution time: 10 minutes

The PMC contains the “Explain, Check and Transport” Tool, which simplifies the collection of all relevant template configuration data for a conversion group. This is useful as a conversion group is a complex configuration object which may require additional data from many different tables - not only the ones you touched during test case 02 execution. Select the PMC “QCI Configuration” tab strip and select “Explain Check & Transport”.





☰
Enter Transport Request
✕

Request

SOIK902718

Customizing request

Short Description

BCP Test Manual - Transport to Development

✓ 📄 Own Requests ✕

☰ Program Edit Goto System Help < 📄 _ ☐ ✕

< **SAP** Petroleum Measurement Cockpit: Explain, Check & Transport - ECT

✓ ▾ 📄 🔄 📄 📄 ⚙️ Exit

Select conversion group & activity

Conversion group

Z721

📄

Language

English

▾

- Explain conversion group
- Check conversion group
- Display UoM for conv. group
- Include UoM into transport
- Include conv. group i. transp.

✓ Transport SOIK902718 has been created/updated with all required objects for Z721

Enter your new Z721 conversion group and select "Include conv. group i. transp.". Select an empty/new customizing transport. **Follow your in-house procedures to have this transport imported into your development client.**



With the “Check, Explain and Transport” tool, you may also include all required UoM data for a conversion group into a single customizing transport. Since your development client typically contains previously configured UoM data, it is strongly recommended to **only copy UoM data for UoM that are NOT already present** into your development client from client 045 . Otherwise, you may overwrite your existing and (hopefully) validated UoM data in that client with the QuantityWare template UoM configuration, which is validated using [NIST SP 811](#).

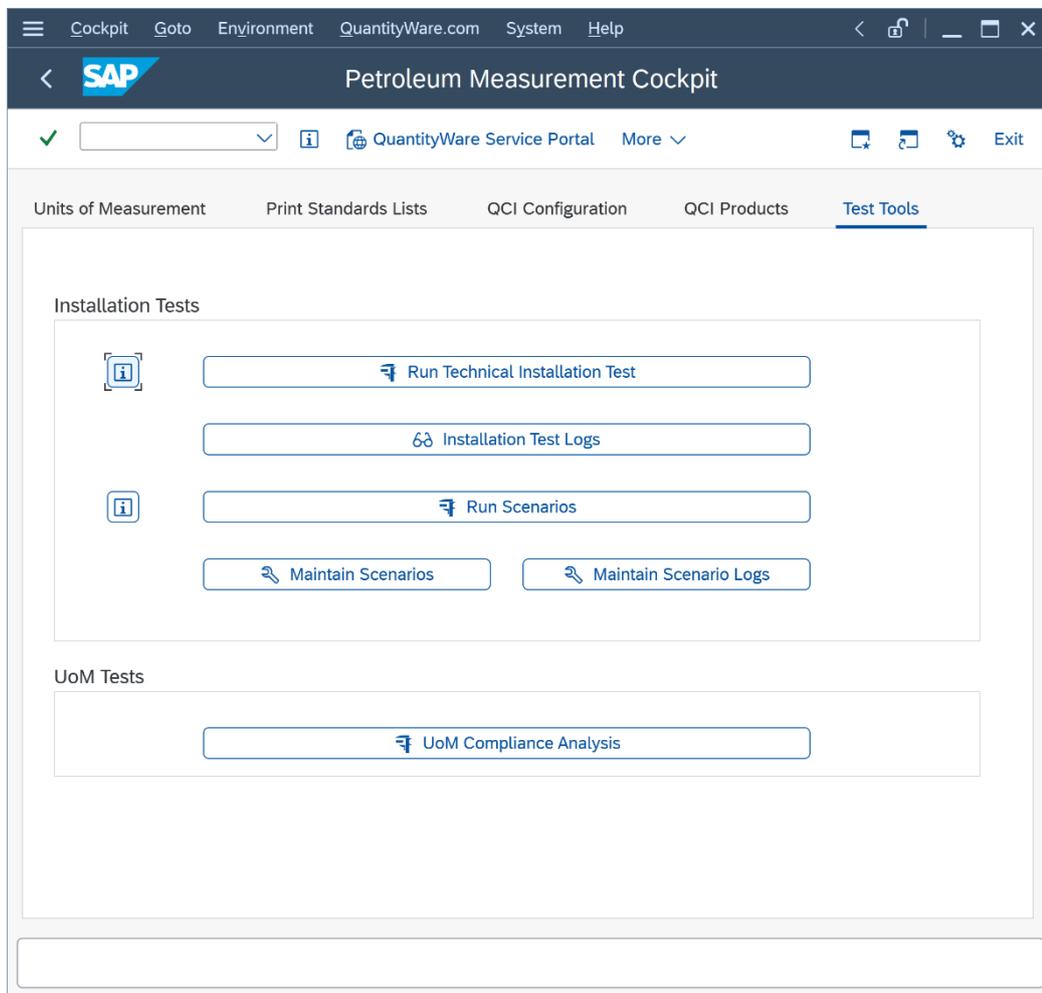


In the following test cases, your material and plant data definitions as well as available UoM groups/definitions may differ from those used in the screen shots

2.4. Test Case 04 – Test LPG Conversion Group - Development

Estimated test case execution time: 15 minutes

After your Z721 conversion group has been successfully transported to your development client, log on to that client and start the Petroleum Measurement Cockpit (PMC) using transaction /N/QTYW/COCKPIT. Note that in this client, the PMC will show less options than in client 045 (where the QuantityWare template is available). For example, the installation & implementation test is not available in this client, since it requires the complete QuantityWare BCP template.



Part 1: Go to the “Oil & Gas Test Calculator” and check if conversion group Z721 has been transported correctly to your development client, i.e. perform several trial calculations:

Calculator Edit Goto System Help

SAP QCI : Calculator for additional quantities

Material (Re)use Defaults Cancel

Exit

Calculation parameters

Conv. Group **Z721** LPG GPA 8217 DENSITY 15 °C, MQCI

UoM Group **ZTM** BCP TEST MANUAL DEVELOPMENT

Date 10.02.2023 12:17:08

Input Qty Transactn. qty. 10000 L

Add.parameters for chemicals

Base density

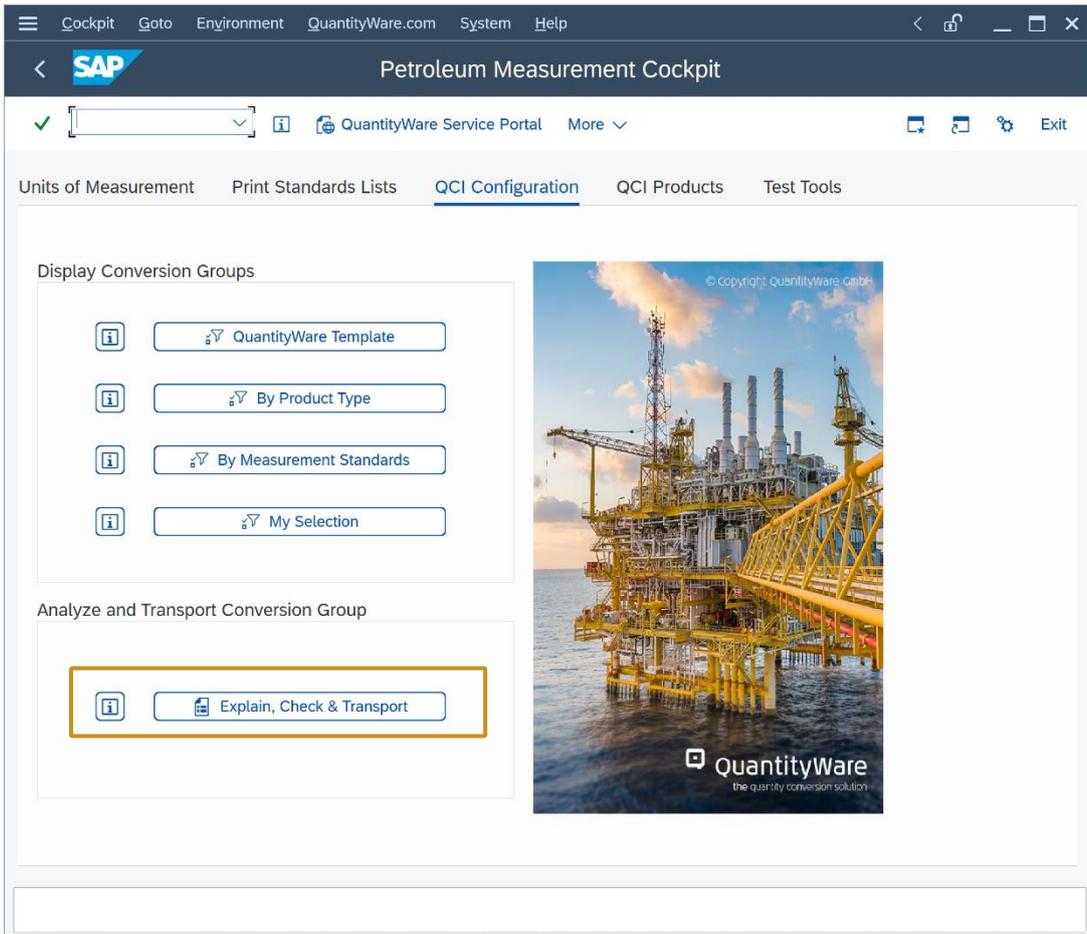
Therm. expans. coeff.

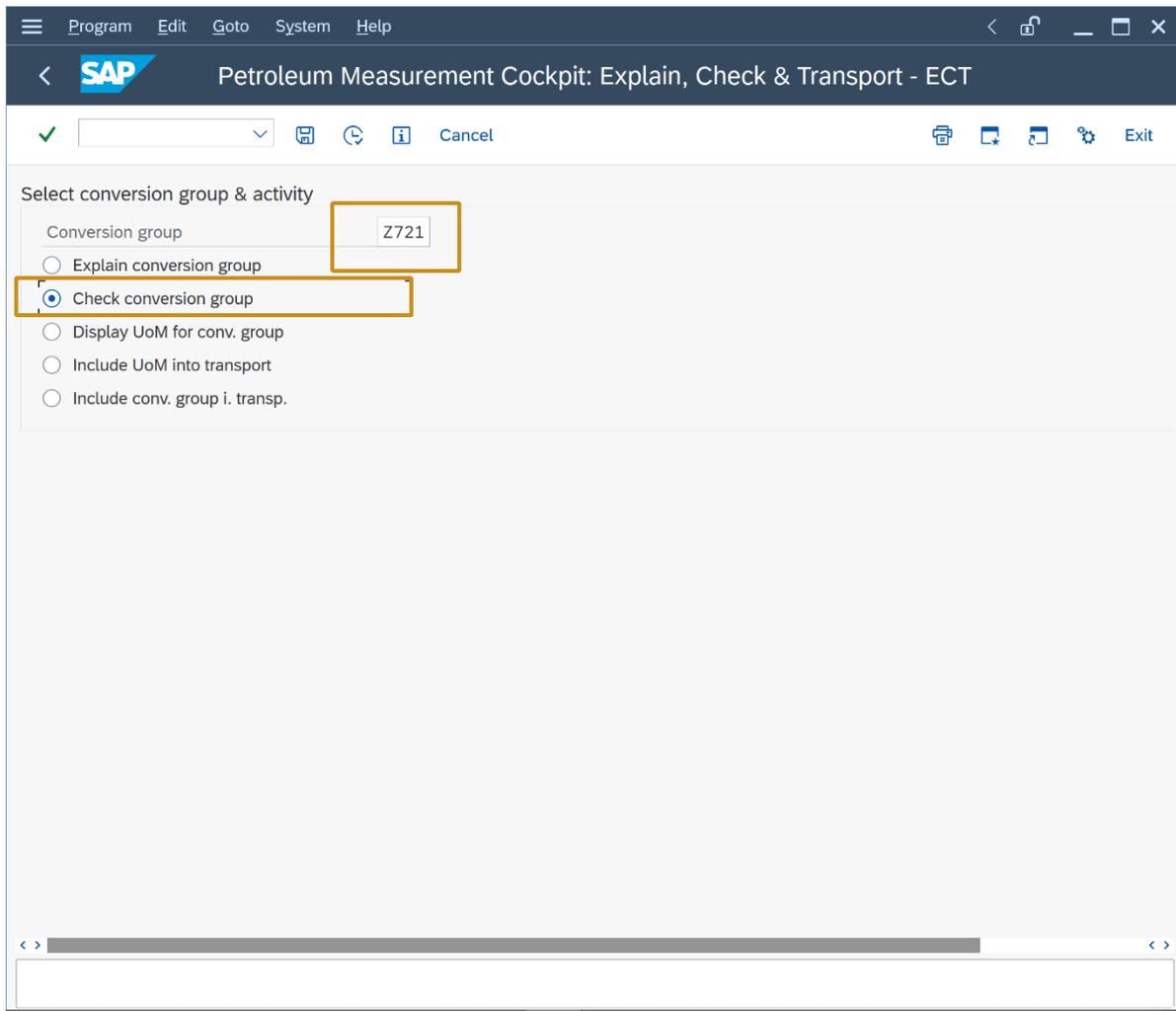
Result

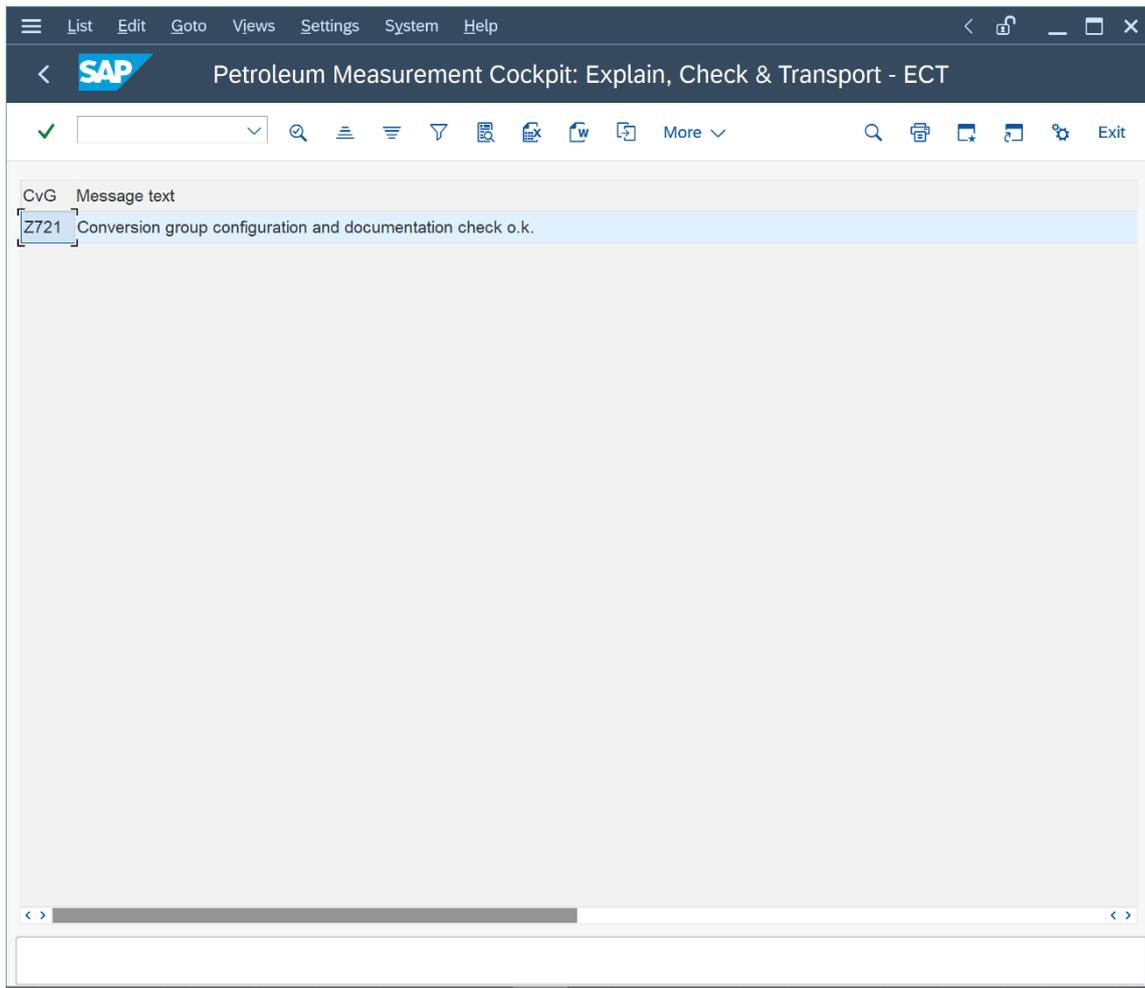
Parameter	C...	Value	U...	Addl.qty	U...	M...
Observed temperature		20.00	CEL	4613.473KG		<input type="checkbox"/>
Test density(vac.)		470.00	KGV	4602.676KGA		<input type="checkbox"/>
Test temperature		15.00	CEL	9815.900L15		<input type="checkbox"/>
Hydrometer corr. indicator	<input checked="" type="checkbox"/>			10000.000L20		<input type="checkbox"/>
Base density(vac.)		470.00	KGV	10171LB		<input type="checkbox"/>
VCF observed to base		0.98159	VCF	2598.257UG6		<input type="checkbox"/>

Note that we did not transport test UoM group QTA and are using a new UoM group ZTM instead. The decimal display settings for some UoM may differ in this client.

Part 2: Once you have manually validated that conversion group Z721 is running in your development client, perform the automated validation test. Select the PMC “QCI Configuration” tab strip and select “Explain Check & Transport”. Enter Z721 as conversion group, select “Check conversion group” and then “Execute” (F8):





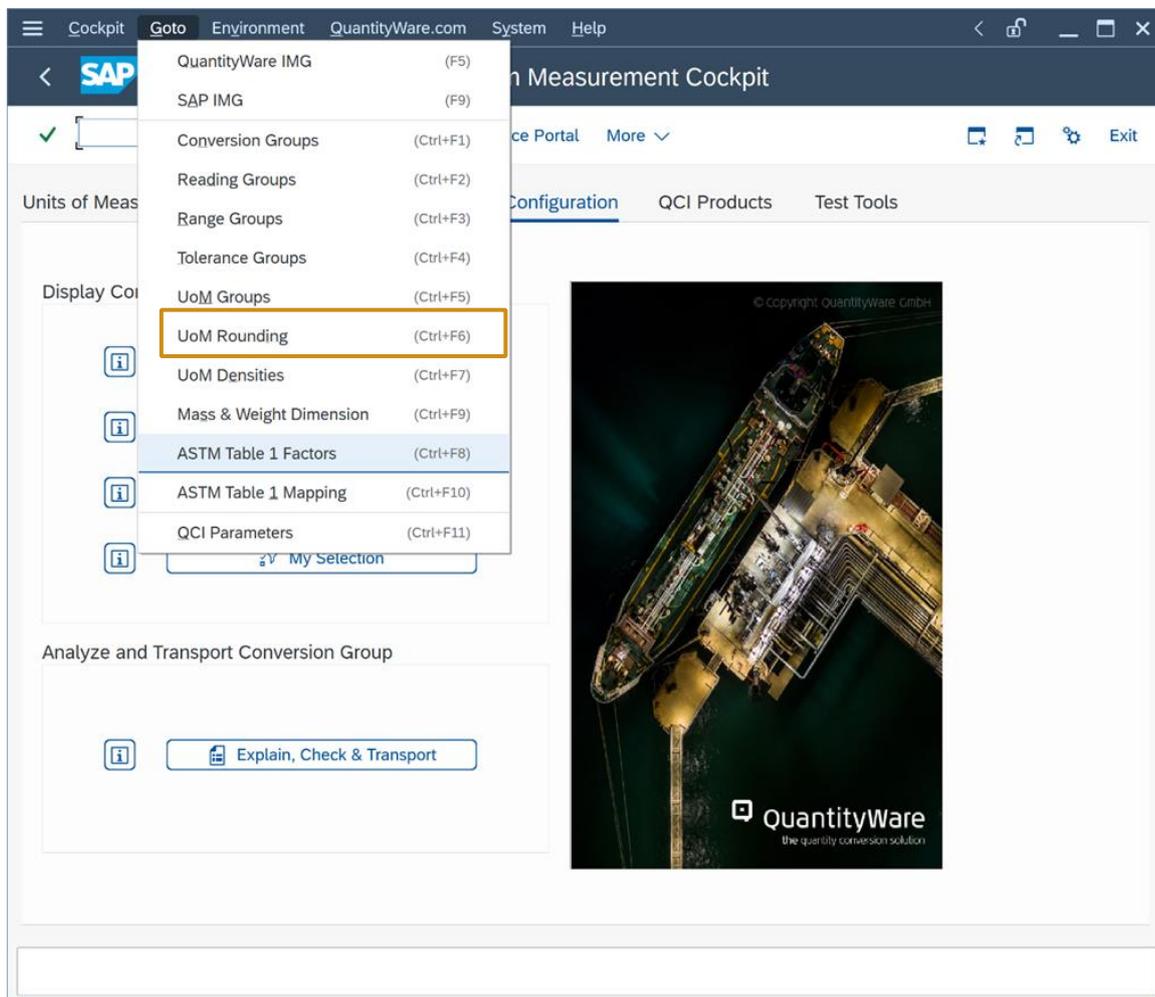


Ensure that no error or warning messages are present. This test should produce identical results when compared with the results for Z721 in client 045.

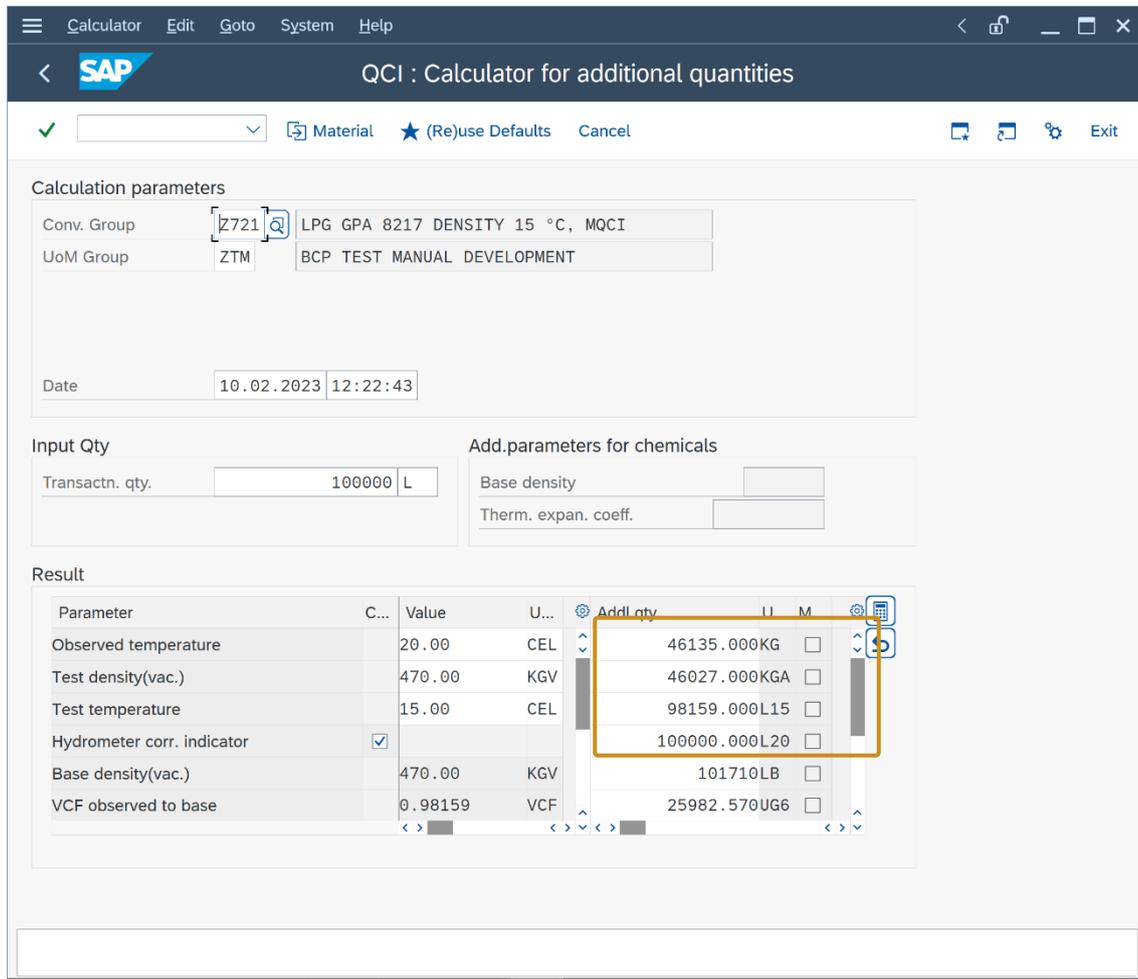
2.5. Test Case 05 – Define UoM Rounding - Development

Estimated test case execution time: 10 minutes

In your development client, define the appropriate UoM rounding for your UoM group. From the PMC menu, select: Goto -> UoM Rounding and enter the UoM KG, KGA, L15 and L20 with 0 (Space) decimal places rounding:



Check that the rounding settings are working by performing another trial calculation (via PMC push button "Oil & Gas Test Calculator"):



NOTE: Via transaction CUNI, you may now also change the display decimal settings for all UoM, e.g. so that [trailing zeros](#) are no longer displayed.

2.6. Test Case 06 – Define Ranges for LPG Conversion Group - Development

Estimated test case execution time: 15 minutes

In your development client, define the appropriate range limits for your input parameters. From the PMC menu, select: Goto -> Range Groups and define range limits for the observed temperature, test density and test temperature:

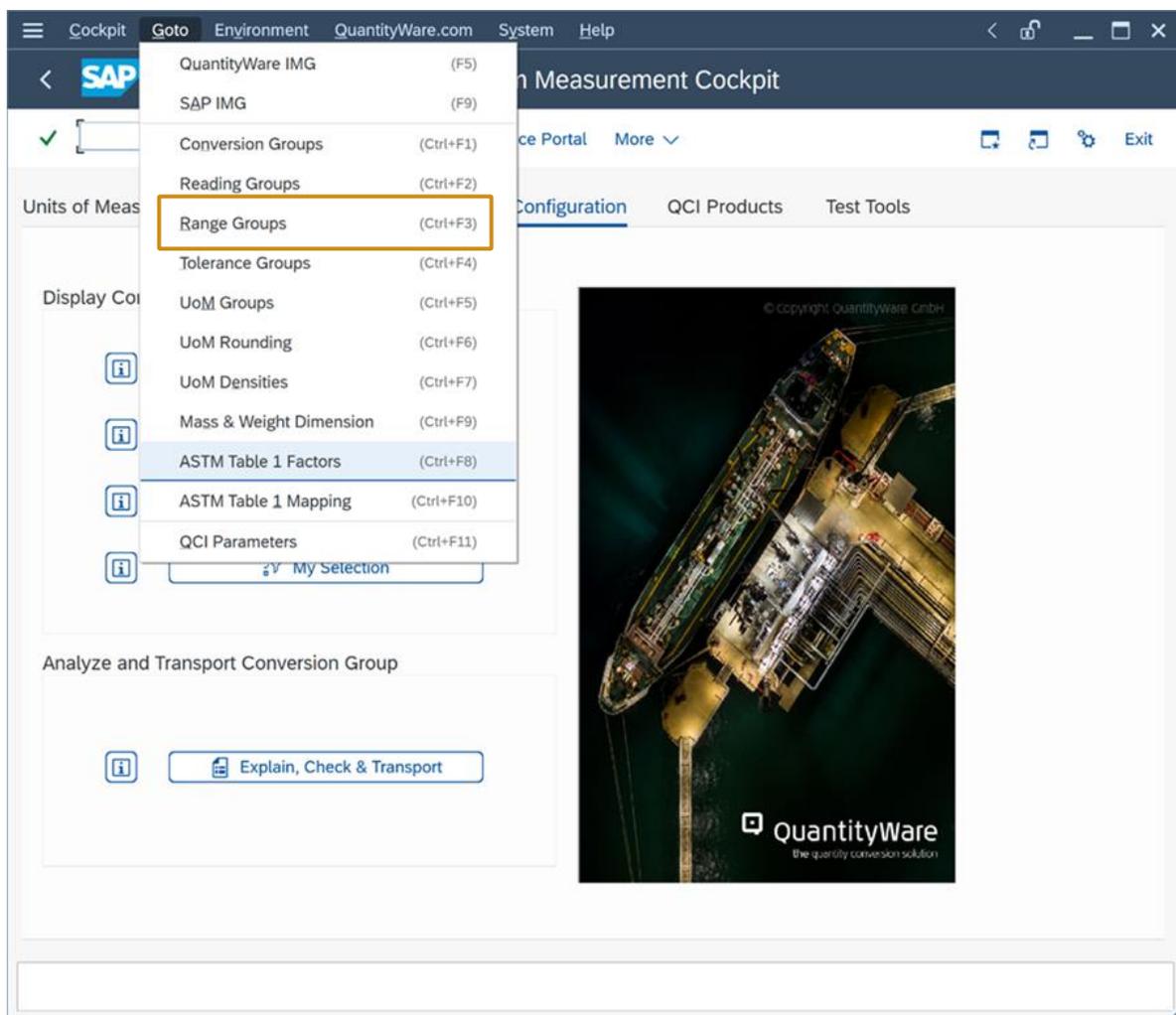


Table View Edit Goto Selection Utilities System Help

SAP Change View "Reading Group: Parameter Ranges": Overview

New Entries More

Dialog Structure

- Reading Group: Range Chec
- Reading Group: Paramete

Reading Group: Parameter Ranges

Rdg. group	Parameter name	Description
<input type="checkbox"/>	Z721 HYDROCORR	Hydrometer corr. indicator
<input checked="" type="checkbox"/>	Z721 OBSMTMETTP	Observed temperature
<input checked="" type="checkbox"/>	Z721 OBSTSTDENS	Test density(vac.)
<input checked="" type="checkbox"/>	Z721 STSTMETT	Test temperature

Position... Entry 1 of 4

SAP Change View "Reading Group: Parameter Ranges": Details

Reading group: Z721
 Parameter name: OBSTSTDENS

Reading Group: Parameter Ranges

Description: Test density(vac.)
 Unit of measure: KGV

Error:high: 600.000000
 Indicator: Non zero range limit

Warning: high: 590.000000
 Indicator: Non zero range limit

Warning: low: 460.000000
 Indicator: Non zero range limit

Error:low: 450.000000
 Indicator: Non zero range limit

Param. (const.):
 Comp. operator:

Table View Edit Goto Selection Utilities System Help

SAP Change View "Reading Group: Parameter Ranges": Details

✓ [dropdown] [save] [refresh] New Entries [print] [undo] [redo] [copy] [paste] More [dropdown] [print] [refresh] [help] [exit]

Dialog Structure

- Reading Group: Range Check
- Reading Group: Parameter Ranges

Reading group: Z721
 Parameter name: OBSTSTMETT

Reading Group: Parameter Ranges

Description: Test temperature
 Unit of measure: CEL

Error:high: 20.000000
 Indicator: Non zero range limit

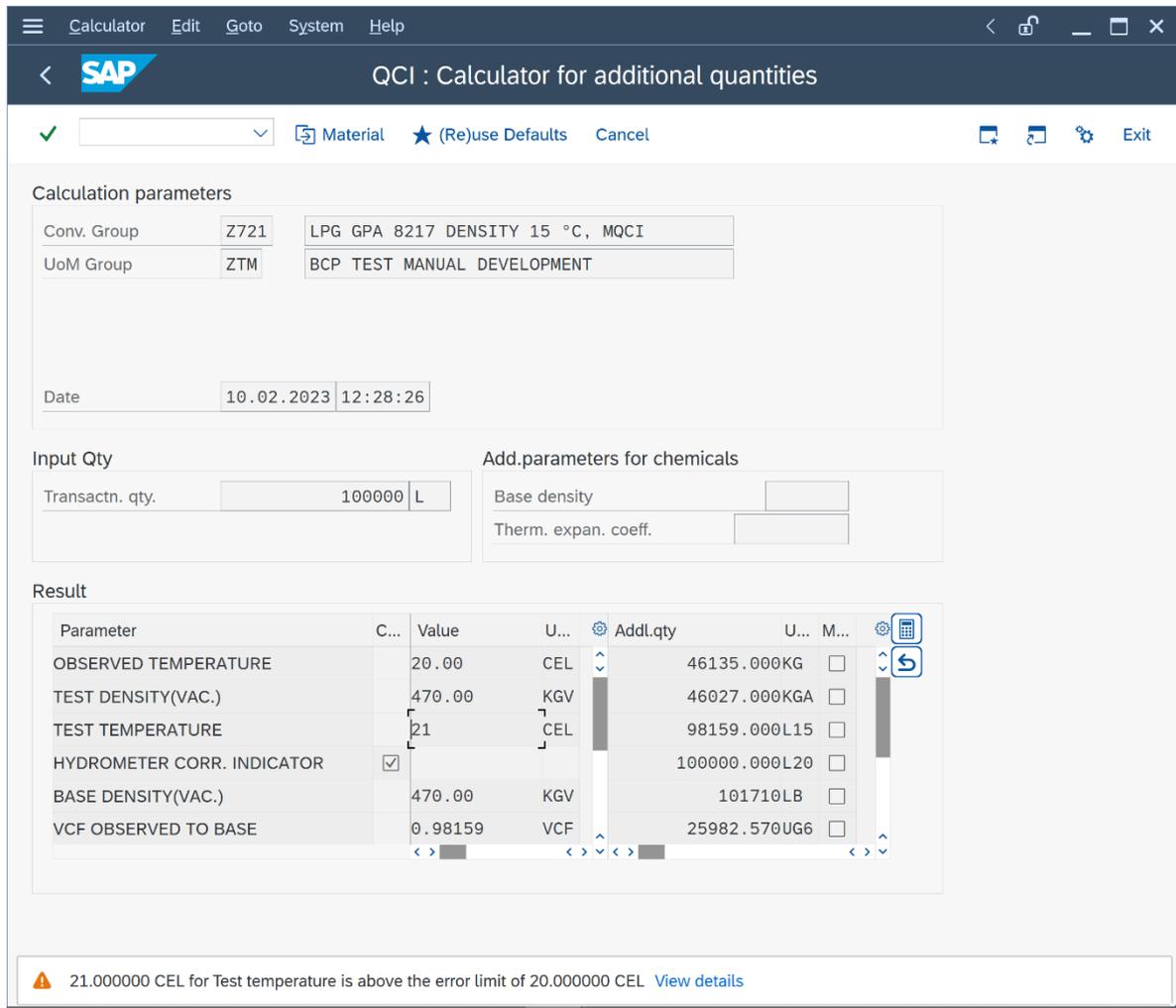
Warning: high: 16.000000
 Indicator: Non zero range limit

Warning: low: 14.000000
 Indicator: Non zero range limit

Error:low: 5.000000
 Indicator: Non zero range limit

Param. (const.): [empty]
 Comp. operator: [dropdown]

Once you have maintained the ranges and saved your work, perform trial conversions and test that the range limits are working:



The screenshot shows the SAP QCI Calculator interface. The title bar reads "SAP QCI : Calculator for additional quantities". The interface includes a menu bar (Calculator, Edit, Goto, System, Help) and a toolbar with icons for Material, (Re)use Defaults, and Cancel. The main area is divided into several sections:

- Calculation parameters:** Contains fields for Conv. Group (Z721), UoM Group (ZTM), and Date (10.02.2023 12:28:26). It also displays material-specific parameters: "LPG GPA 8217 DENSITY 15 °C, MQCI" and "BCP TEST MANUAL DEVELOPMENT".
- Input Qty:** A field for "Transactn. qty." is set to 100000 L.
- Add.parameters for chemicals:** Fields for "Base density" and "Therm. expan. coeff." are present.
- Result:** A table displaying calculation results. The table has columns for Parameter, C..., Value, U..., Addl.qty, U..., and M... (Material).

Parameter	C...	Value	U...	Addl.qty	U...	M...
OBSERVED TEMPERATURE		20.00	CEL	46135.000KG		
TEST DENSITY(VAC.)		470.00	KGV	46027.000KGA		
TEST TEMPERATURE		21	CEL	98159.000L15		
HYDROMETER CORR. INDICATOR	<input checked="" type="checkbox"/>			100000.000L20		
BASE DENSITY(VAC.)		470.00	KGV	101710LB		
VCF OBSERVED TO BASE		0.98159	VCF	25982.570UG6		

At the bottom of the interface, a warning message states: "21.000000 CEL for Test temperature is above the error limit of 20.000000 CEL View details".

Calculator Edit Goto System Help

SAP QCI : Calculator for additional quantities

Material (Re)use Defaults Cancel

Exit

Calculation parameters

Conv. Group: Z721 LPG GPA 8217 DENSITY 15 °C, MQCI

UoM Group: ZTM BCP TEST MANUAL DEVELOPMENT

Date: 10.02.2023 12:28:26

Input Qty: Transactn. qty. 100000 L

Add.parameters for chemicals

Base density: []

Therm. expan. coeff. []

Result

Parameter	C...	Value	U...	Add.qty	U...	M...
Observed temperature		20.00	CEL		0.000KG	<input type="checkbox"/>
Test density(vac.)		470.00	KGV		0.000KGA	<input type="checkbox"/>
Test temperature		21.00	CEL		0.000L15	<input type="checkbox"/>
Hydrometer corr. indicator	<input checked="" type="checkbox"/>				0.000L20	<input type="checkbox"/>
Base density(vac.)		470.00	KGV		0LB	<input type="checkbox"/>
VCF observed to base		0.98159	VCF		0.000UG6	<input type="checkbox"/>

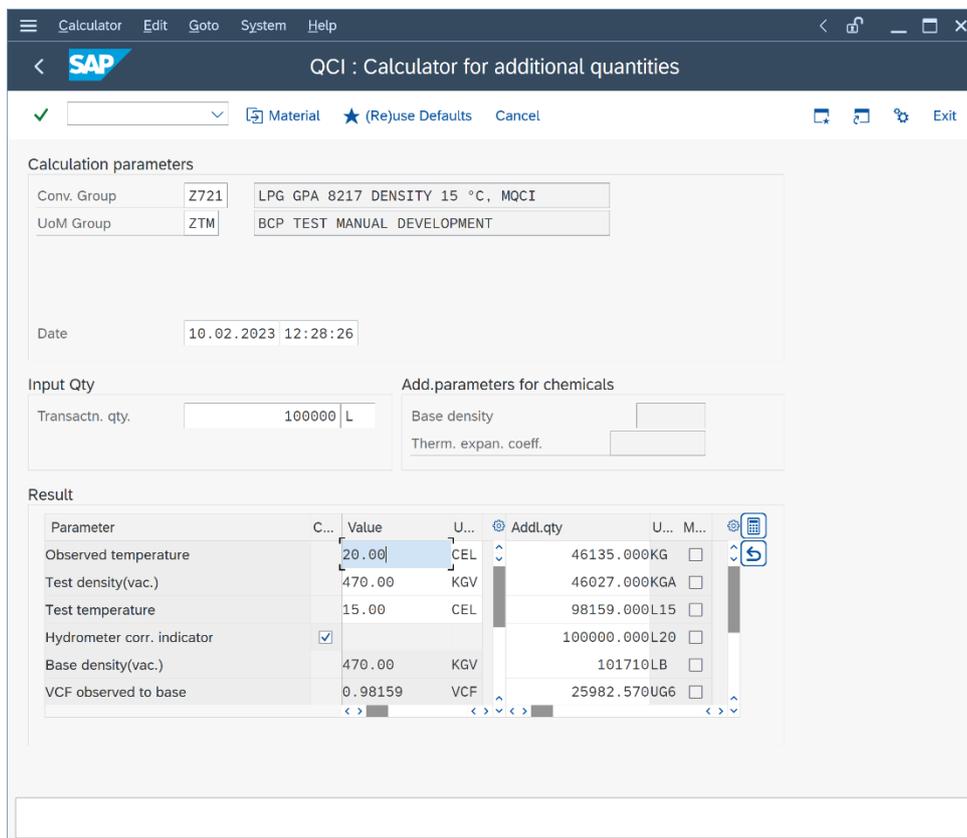


Good range data is vital to ensure good data quality e.g. for measurement values being passed from the field to the ERP system, as well as to prevent fraudulent via "open door (unrealistic) calculations".

2.7. Test Case 07 – Define Test Scenarios for LPG Conversion Group - Development

Estimated test case execution time: 60 minutes

Test scenarios are your insurance against manipulation and proof that that your quantity conversion configuration is running as designed and tested, in production. For this test case we assume that you have validated the calculations of conversion group Z721 (e.g. independent calculations in a spread sheet, typically done by certified BCP consultants). Let's take the following test calculation - PMC push button "Oil & Gas Test Calculator" - and transfer it into our first test scenario:



Calculation parameters

Conv. Group: Z721 LPG GPA 8217 DENSITY 15 °C, MQCI
 UoM Group: ZTM BCP TEST MANUAL DEVELOPMENT

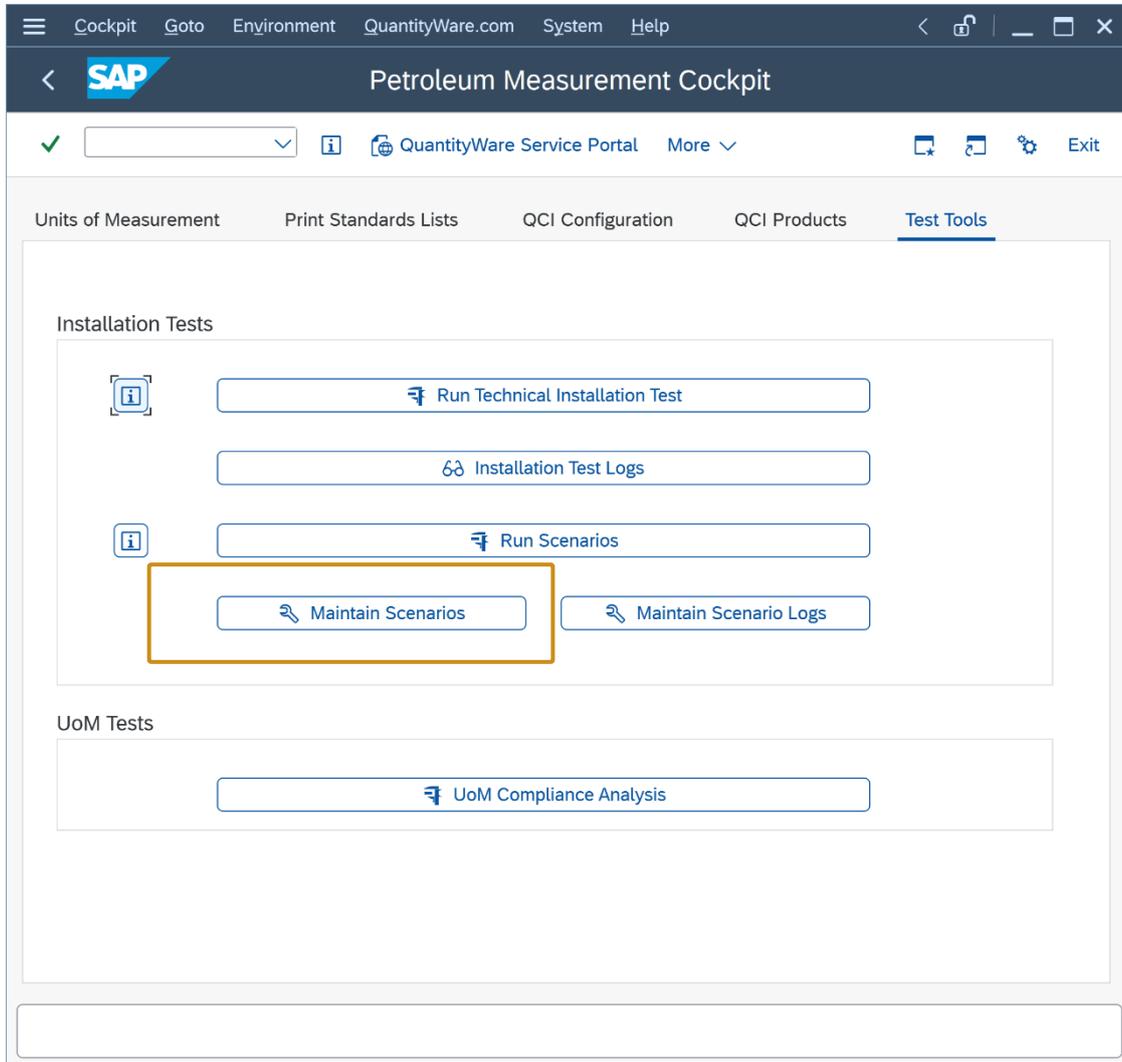
Date: 10.02.2023 12:28:26

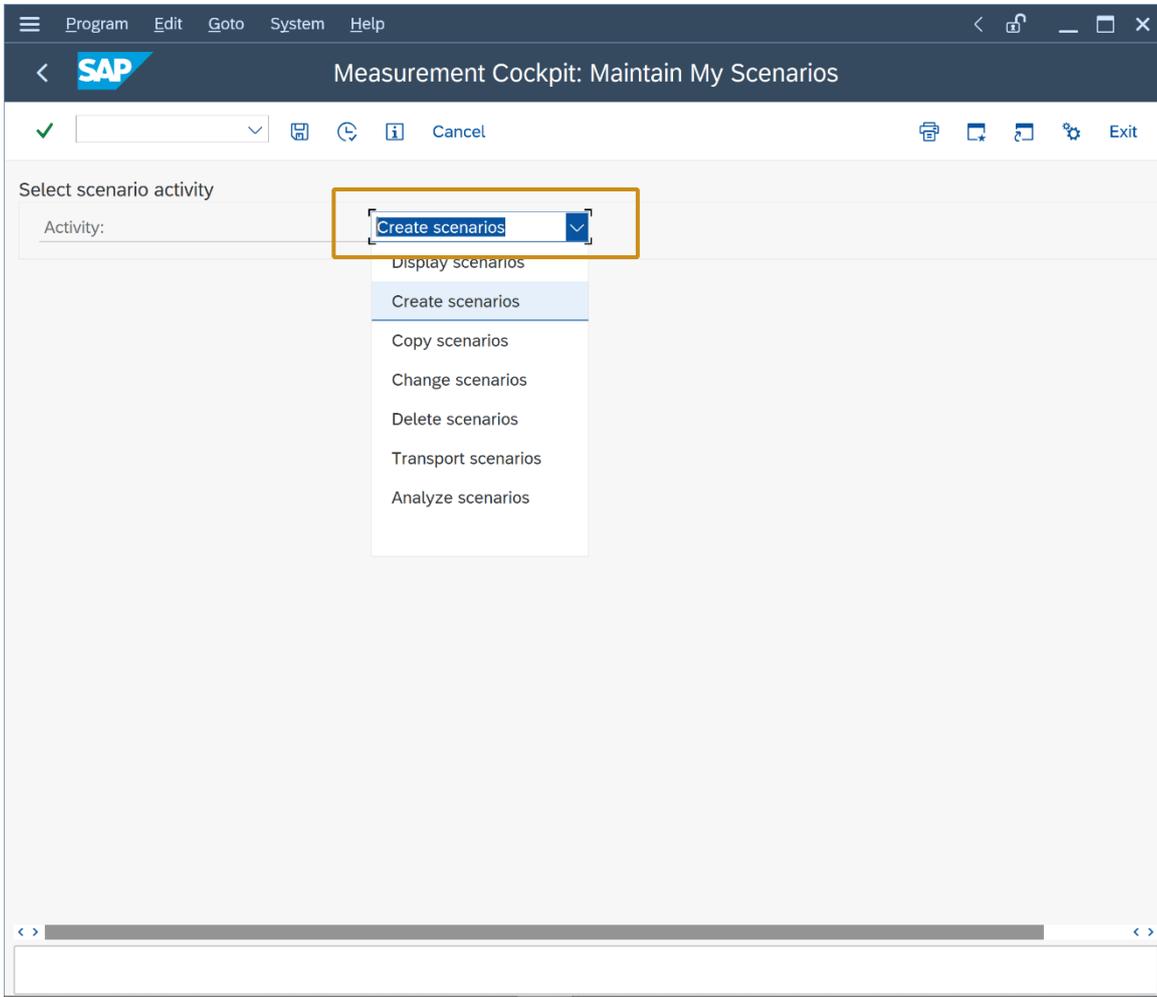
Input Qty: Transactn. qty. 100000 L

Add.parameters for chemicals: Base density, Therm. expan. coeff.

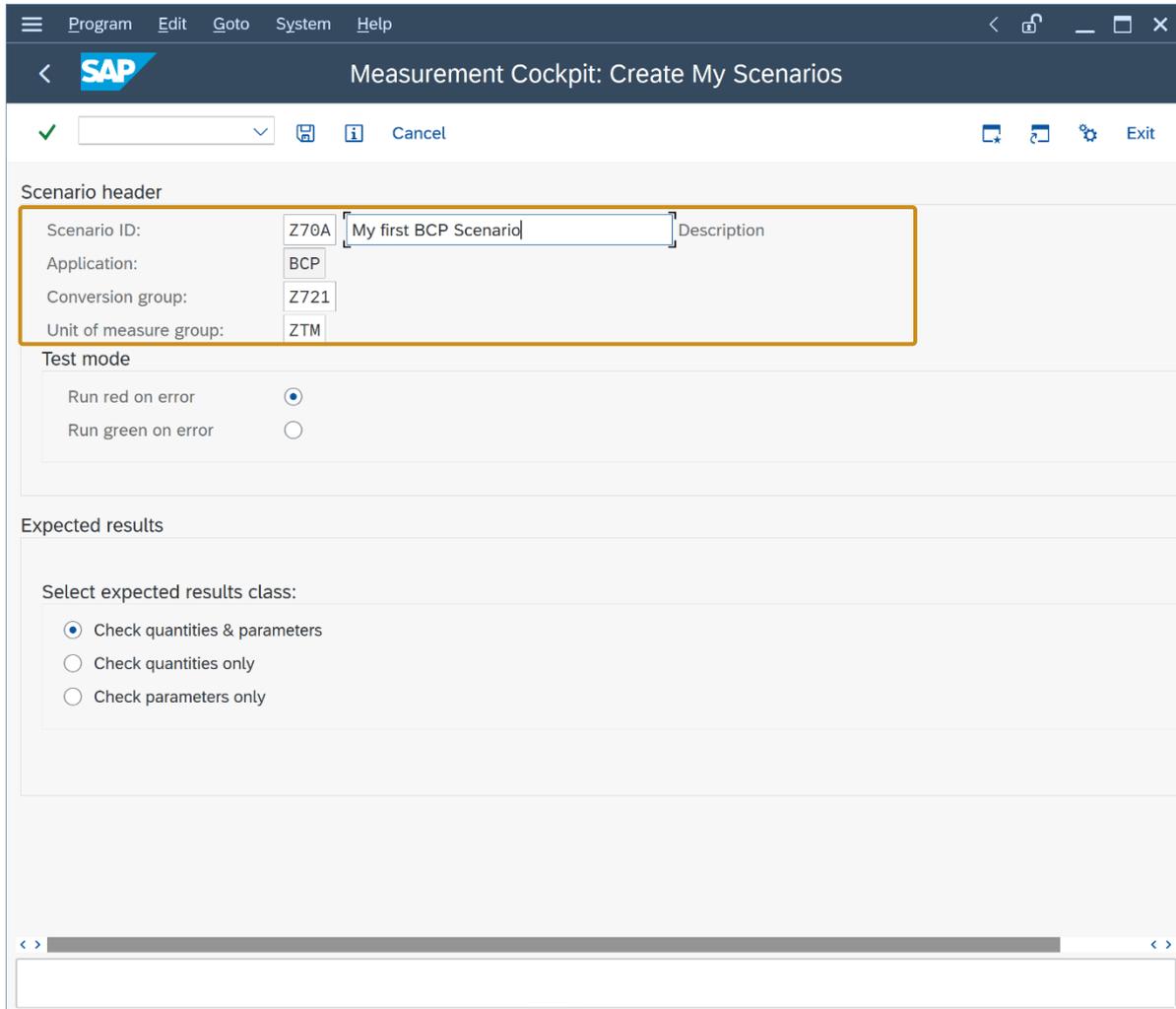
Parameter	C...	Value	U...	Add.qty	U...	M...
Observed temperature		20.00	CEL	46135.000	KG	<input type="checkbox"/>
Test density(vac.)		470.00	KGV	46027.000	KG	<input type="checkbox"/>
Test temperature		15.00	CEL	98159.000	L15	<input type="checkbox"/>
Hydrometer corr. indicator	<input checked="" type="checkbox"/>			100000.000	L20	<input type="checkbox"/>
Base density(vac.)		470.00	KGV	101710	LB	<input type="checkbox"/>
VCF observed to base		0.98159	VCF	25982.570	UG6	<input type="checkbox"/>

From the PMC tab strip “Test Tools” select “Maintain Scenarios”, then “Create scenarios”:





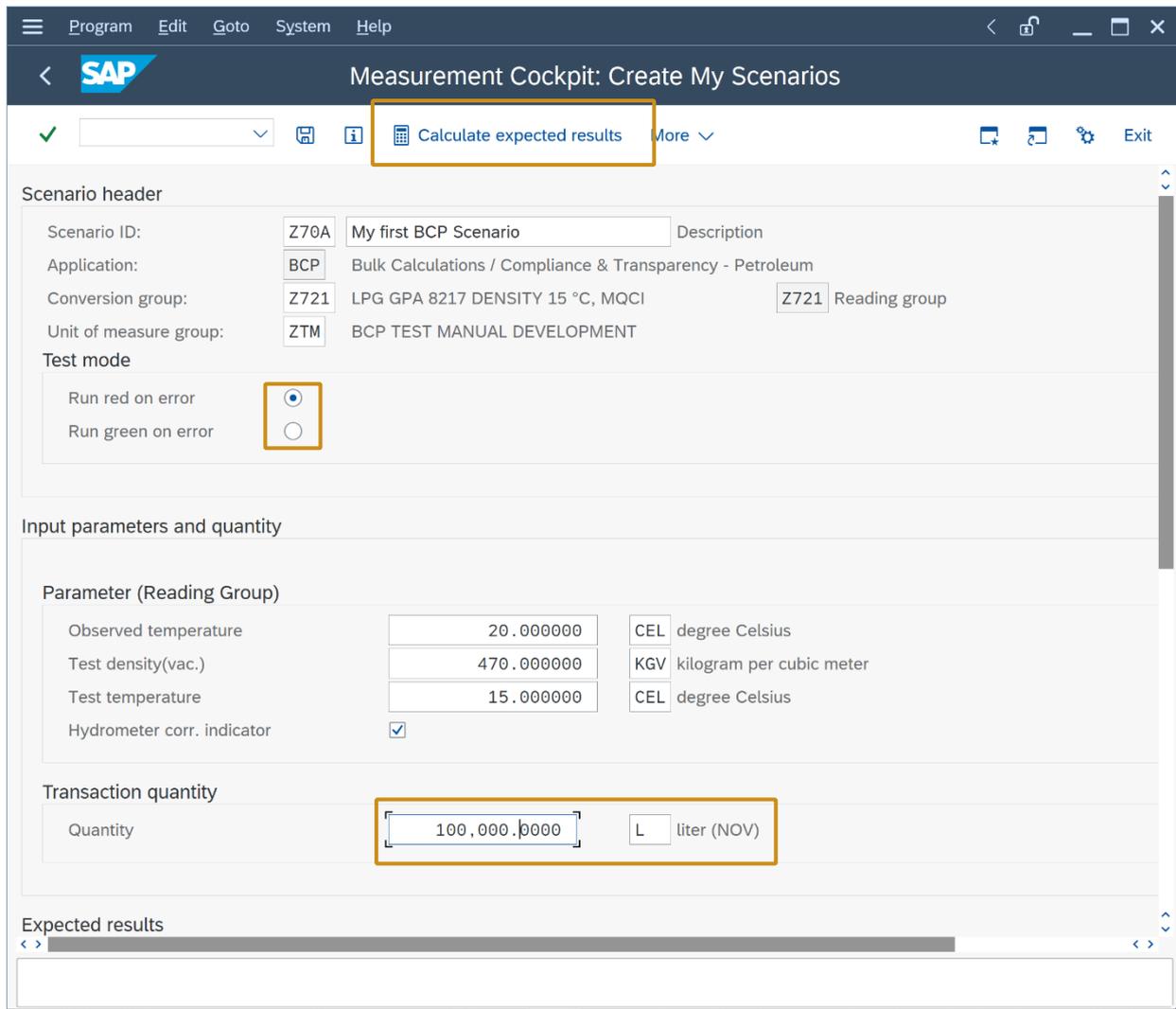
Enter the scenario ID (e.g. Z70A), a description, the conversion group Z721 and UoM group EU1 and press "Enter":



The screenshot shows the SAP Measurement Cockpit interface for creating scenarios. The window title is "Measurement Cockpit: Create My Scenarios". The SAP logo is visible in the top left corner. The interface is divided into several sections:

- Scenario header:** This section contains input fields for:
 - Scenario ID: Z70A
 - Application: BCP
 - Conversion group: Z721
 - Unit of measure group: ZTMThe description field is currently empty and has a text cursor. The description field is highlighted with an orange border.
- Test mode:** This section contains two radio buttons:
 - Run red on error:
 - Run green on error:
- Expected results:** This section contains a section titled "Select expected results class:" with three radio buttons:
 - Check quantities & parameters:
 - Check quantities only:
 - Check parameters only:

In the details screen, the reading group values are defaulted as input parameters. Now enter the transaction quantity of 100,000.000 L and check that the “expected result class” radio button is set to “Check quantities and parameters”). Then select push button “Calculate expected results”, confirm the calculated values and then save your scenario, confirming all messages:



The screenshot shows the SAP Measurement Cockpit interface for creating a scenario. The title bar reads "Measurement Cockpit: Create My Scenarios". The main content area is divided into several sections:

- Scenario header:**
 - Scenario ID: Z70A
 - Application: BCP
 - Conversion group: Z721
 - Unit of measure group: ZTM
 - Description: My first BCP Scenario
 - Bulk Calculations / Compliance & Transparency - Petroleum
 - LPG GPA 8217 DENSITY 15 °C, MQCI
 - Reading group: Z721
 - BCP TEST MANUAL DEVELOPMENT
- Test mode:**
 - Run red on error: (highlighted with a yellow box)
 - Run green on error:
- Input parameters and quantity:**
 - Parameter (Reading Group):**
 - Observed temperature: 20.000000 (unit: CEL degree Celsius)
 - Test density(vac.): 470.000000 (unit: KGV kilogram per cubic meter)
 - Test temperature: 15.000000 (unit: CEL degree Celsius)
 - Hydrometer corr. indicator:
 - Transaction quantity:**
 - Quantity: 100,000.0000 (unit: L liter (NOV)) (highlighted with a yellow box)
- Expected results:** (Empty table area)

A yellow box highlights the "Calculate expected results" button in the top toolbar and the "Run red on error" radio button. Another yellow box highlights the "Quantity" input field containing "100,000.0000" and the unit "L liter (NOV)".

Measurement Cockpit: Create My Scenarios

SAP Measurement Cockpit: Create My Scenarios

Calculate expected results More

Exit

Scenario header

QuantityWare MQCI - Dialog box

Material data

Material

Plant

Storage Location

Batch

Transaction quantity 100000.000 L

Input

Result

Parameter	C...	Value	U...	Addl.qty	U...	M...
Observed temperature		20.00	CEL	46,135.000	KG	<input type="checkbox"/>
Test density(vac.)		470.00	KGV	101,710	LB	<input type="checkbox"/>
Test temperature		15.00	CEL	98,159.000	L15	<input type="checkbox"/>
Hydrometer corr. indicator	<input checked="" type="checkbox"/>			100,000.000	L20	<input type="checkbox"/>
Base density(vac.)		470.00	KGV	25,982.570	UG6	<input type="checkbox"/>
VCF observed to base		0.98159	VCF	46,027.000	KGA	<input type="checkbox"/>

Expect

Program Edit Goto System Help

SAP Measurement Cockpit: Create My Scenarios

Calculate expected results More

Transaction quantity

Quantity 100,000.0000 L liter (NOV)

Expected results

Select expected results class:

- Check quantities & parameters
- Check quantities only
- Check parameters only

Parameters

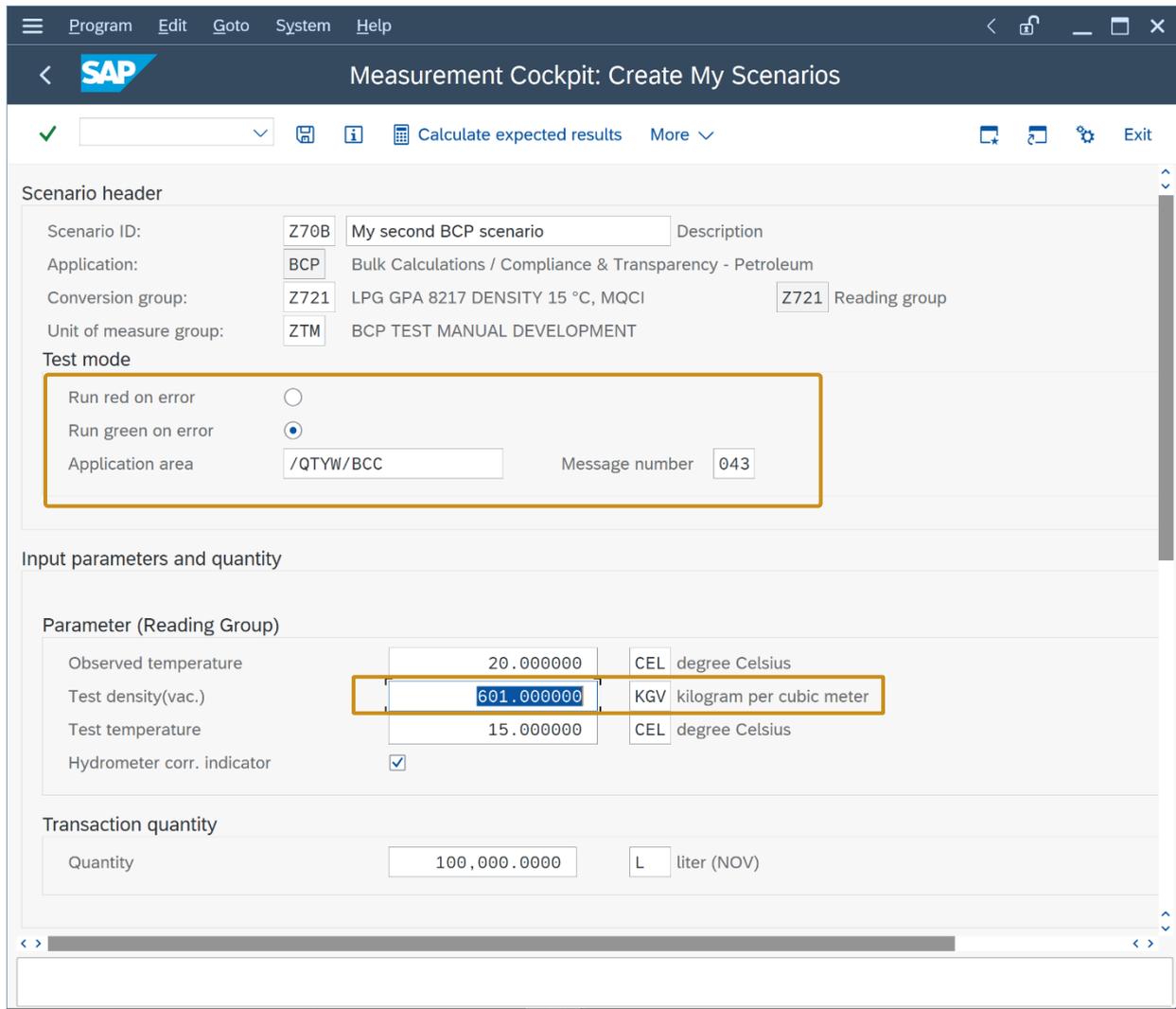
Base density(vac.)	470.000000	KGV	kilogram per cubic meter
VCF observed to base	0.981590	VCF	Volume corr. factor - oil
Base density (air)	468.900000	KGV	kilogram per cubic meter

Quantities

net mass NSM	46,135.0000	KG	kilogram (NSM)
net mass NSM	101,709.6690	LB	pound (avoirdupois) (NSM)
net volume NOV/NSV	98,159.0000	L15	liter - 15 °C (NSV)
net volume NOV/NSV	100,000.0000	L20	liter - 20 °C (NSV)
net volume NOV/NSV	25,982.5700	UG6	gallon (U.S.) 60 °F

NOTE: go to "More -> Save Scenario" to save your scenario.

For the second scenario, we want to ensure that the range check is always executed correctly (extremely important for production environments) - Thus we define the following scenario:



The screenshot shows the SAP Measurement Cockpit interface for creating a scenario. The window title is "Measurement Cockpit: Create My Scenarios". The menu bar includes Program, Edit, Goto, System, and Help. The toolbar contains a checkmark, a dropdown, a save icon, an information icon, a calculator icon, and the text "Calculate expected results" followed by a "More" dropdown. The "Exit" button is also present.

Scenario header

Scenario ID:	Z70B	My second BCP scenario	Description
Application:	BCP	Bulk Calculations / Compliance & Transparency - Petroleum	
Conversion group:	Z721	LPG GPA 8217 DENSITY 15 °C, MQCI	Z721 Reading group
Unit of measure group:	ZTM	BCP TEST MANUAL DEVELOPMENT	

Test mode

Run red on error	<input type="radio"/>
Run green on error	<input checked="" type="radio"/>
Application area	/QTYW/BCC
Message number	043

Input parameters and quantity

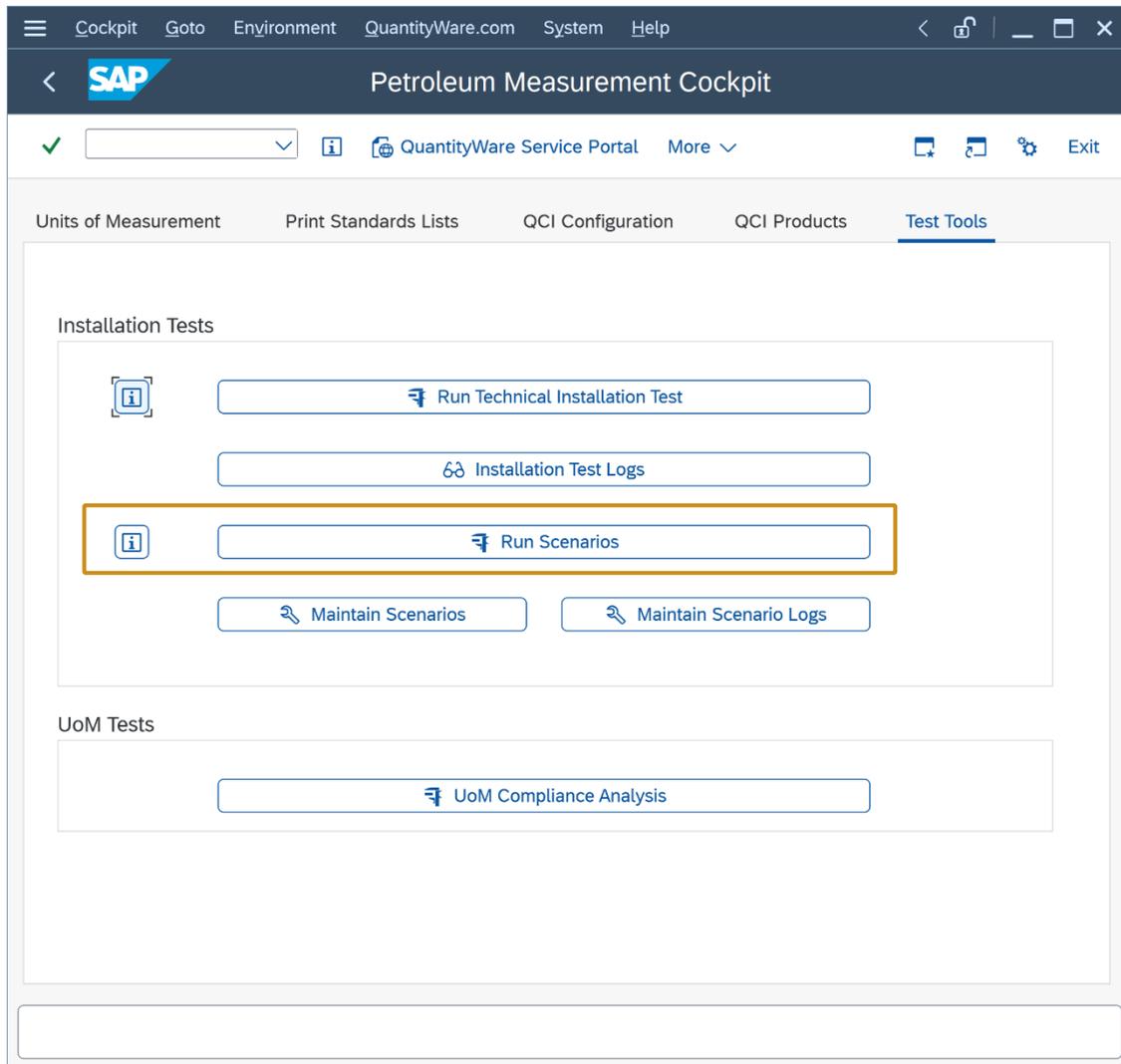
Parameter (Reading Group)

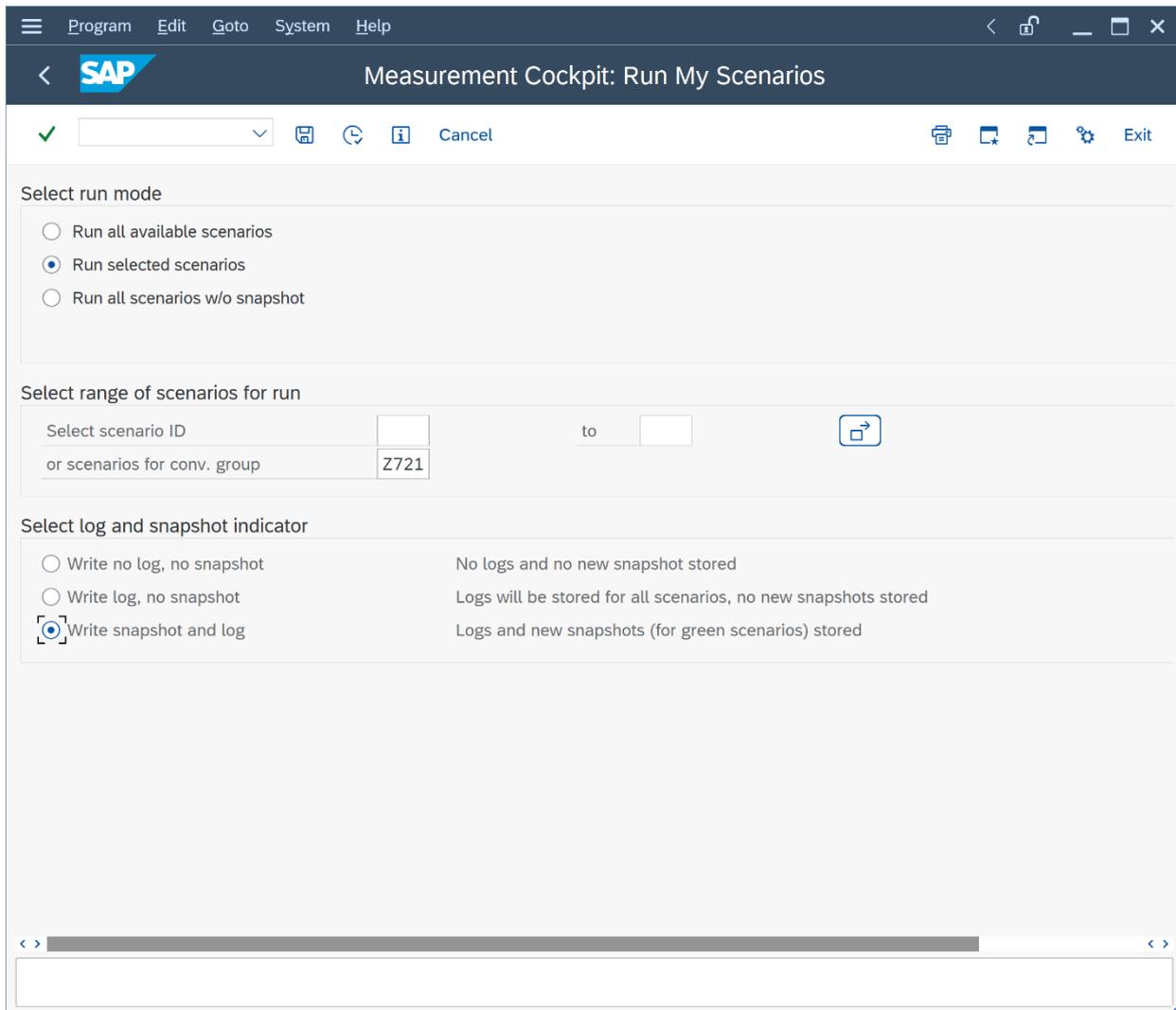
Observed temperature	20.000000	CEL	degree Celsius
Test density(vac.)	601.000000	KGV	kilogram per cubic meter
Test temperature	15.000000	CEL	degree Celsius
Hydrometer corr. indicator	<input checked="" type="checkbox"/>		

Transaction quantity

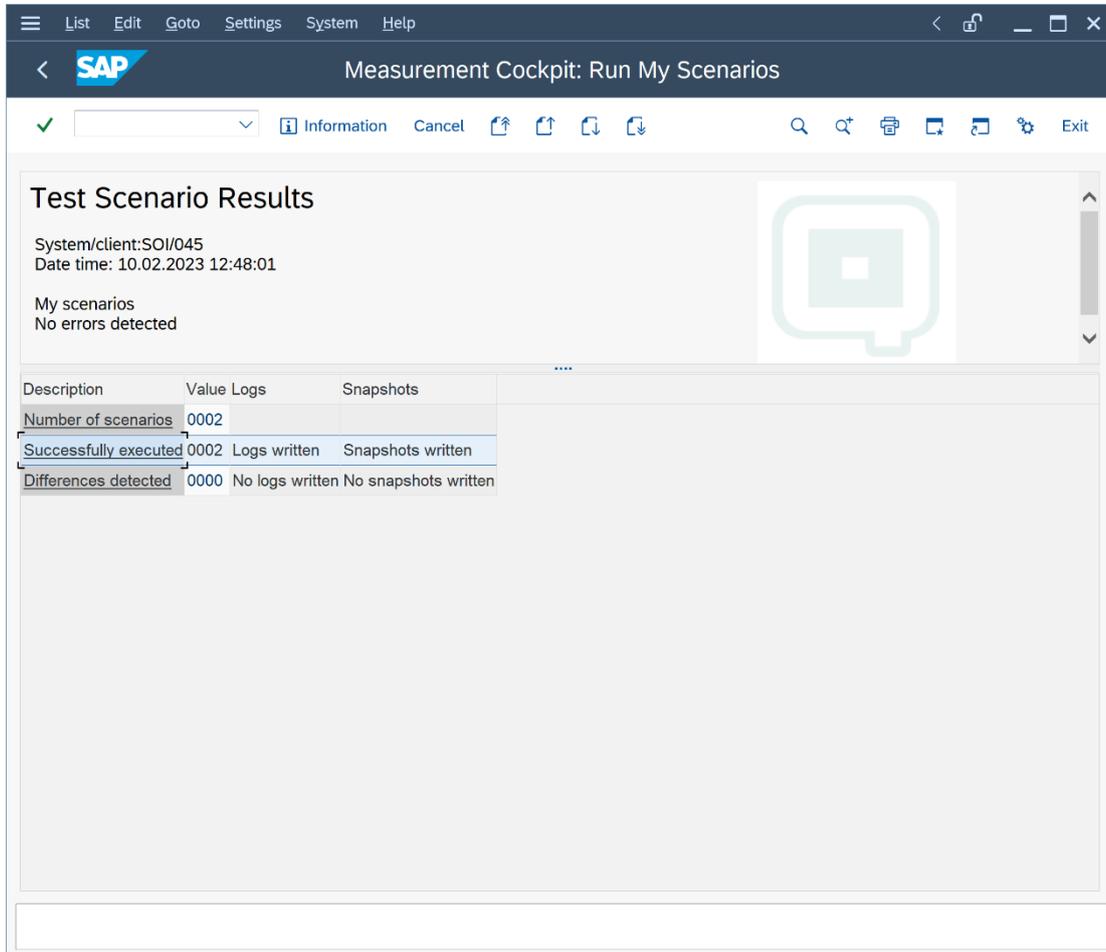
Quantity	100,000.0000	L	liter (NOV)
----------	--------------	---	-------------

Now we go back to the PMC tab strip "Test Tools" and select "Run Scenarios". Then, select "Run all scenarios w/o snapshot" and "Write snapshot and log":



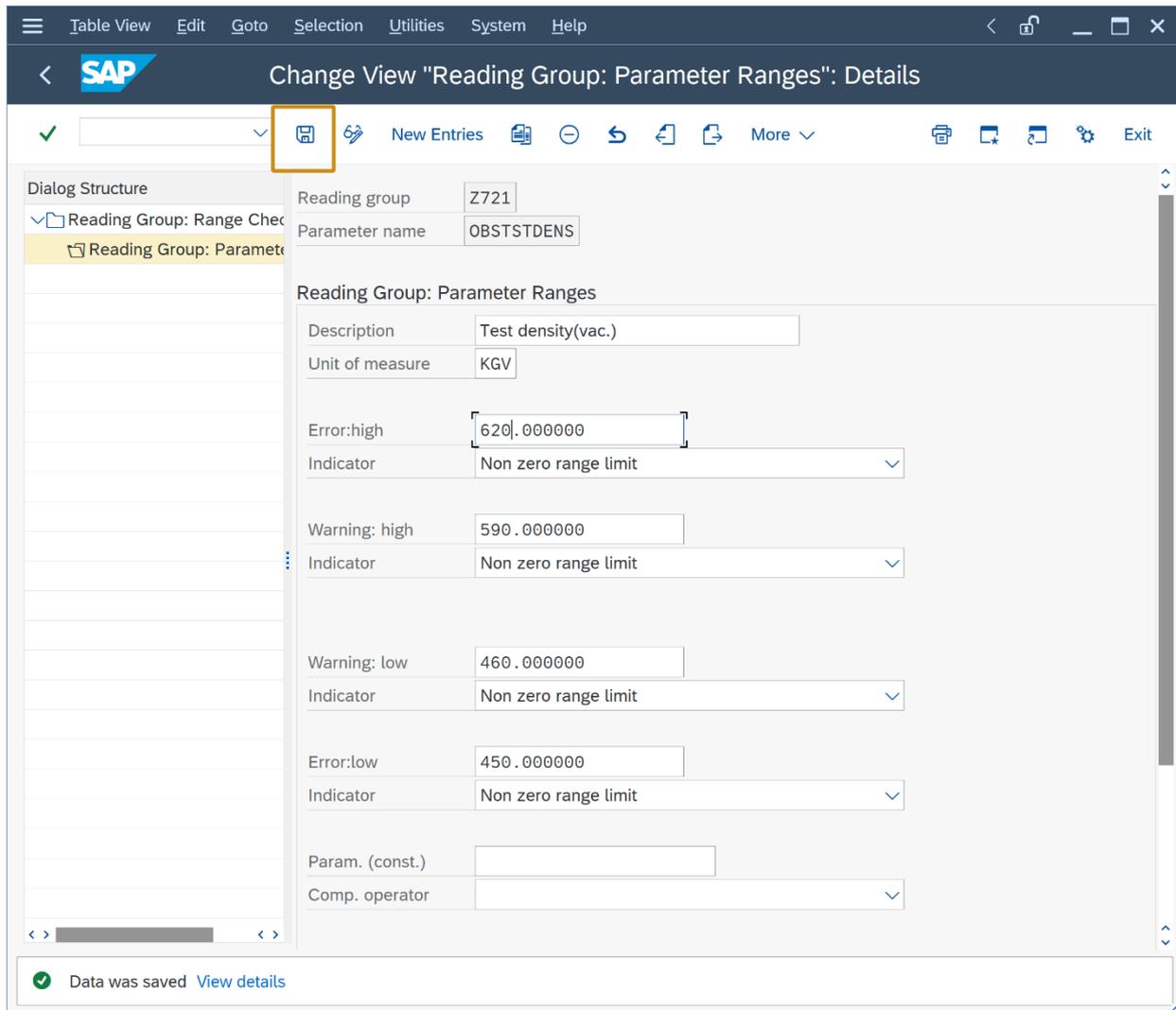


If you have maintained the two scenarios correctly, the following result will be displayed:



The system has performed a quantity conversion automatically and compares the actual results with the expected results defined in the scenarios.

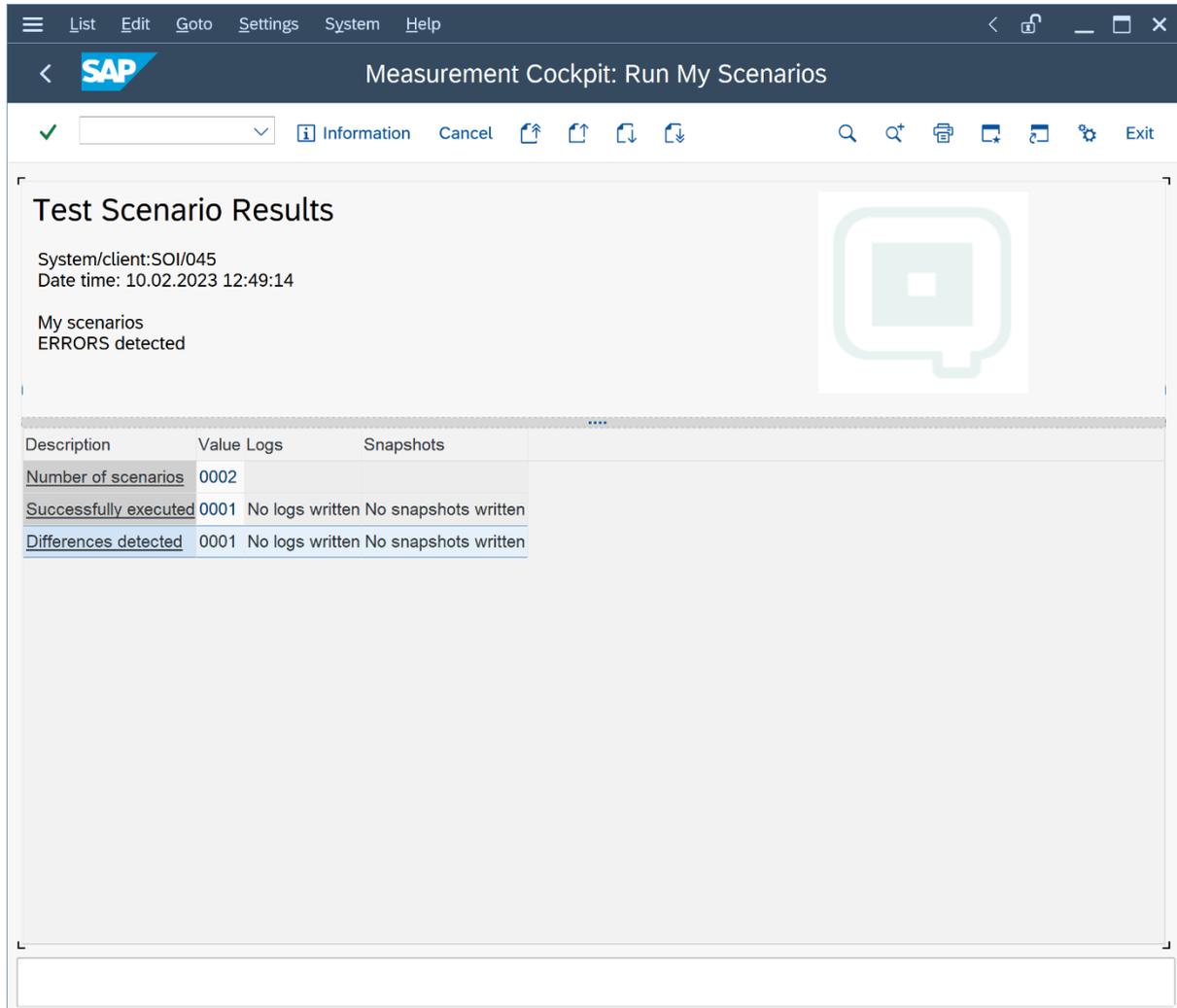
In order to test this tool, let's go back to the range data for conversion group Z721 (see test case 06) and change the test density "high" error limit to 620 kg/m³:



The screenshot shows the SAP S/4HANA 'Change View' dialog for 'Reading Group: Parameter Ranges'. The 'Error:high' field is highlighted with a red box and contains the value '620.000000'. The 'Indicator' dropdown for this field is set to 'Non zero range limit'. Other fields include 'Warning: high' (590.000000), 'Warning: low' (460.000000), and 'Error:low' (450.000000), all with 'Non zero range limit' indicators. The 'Reading group' is 'Z721' and the 'Parameter name' is 'OBSTSTDENS'. A status bar at the bottom indicates 'Data was saved'.

Field	Value	Indicator
Reading group	Z721	
Parameter name	OBSTSTDENS	
Description	Test density(vac.)	
Unit of measure	KGV	
Error:high	620.000000	Non zero range limit
Warning: high	590.000000	Non zero range limit
Warning: low	460.000000	Non zero range limit
Error:low	450.000000	Non zero range limit
Param. (const.)		
Comp. operator		

If we now run the scenarios for conversion group Z721 again, one scenarios fails:



The screenshot shows the SAP Measurement Cockpit interface. The title bar reads "Measurement Cockpit: Run My Scenarios". Below the title bar, there is a navigation bar with a green checkmark, a dropdown menu, and buttons for "Information", "Cancel", and several file operation icons. The main content area is titled "Test Scenario Results" and includes the following text:

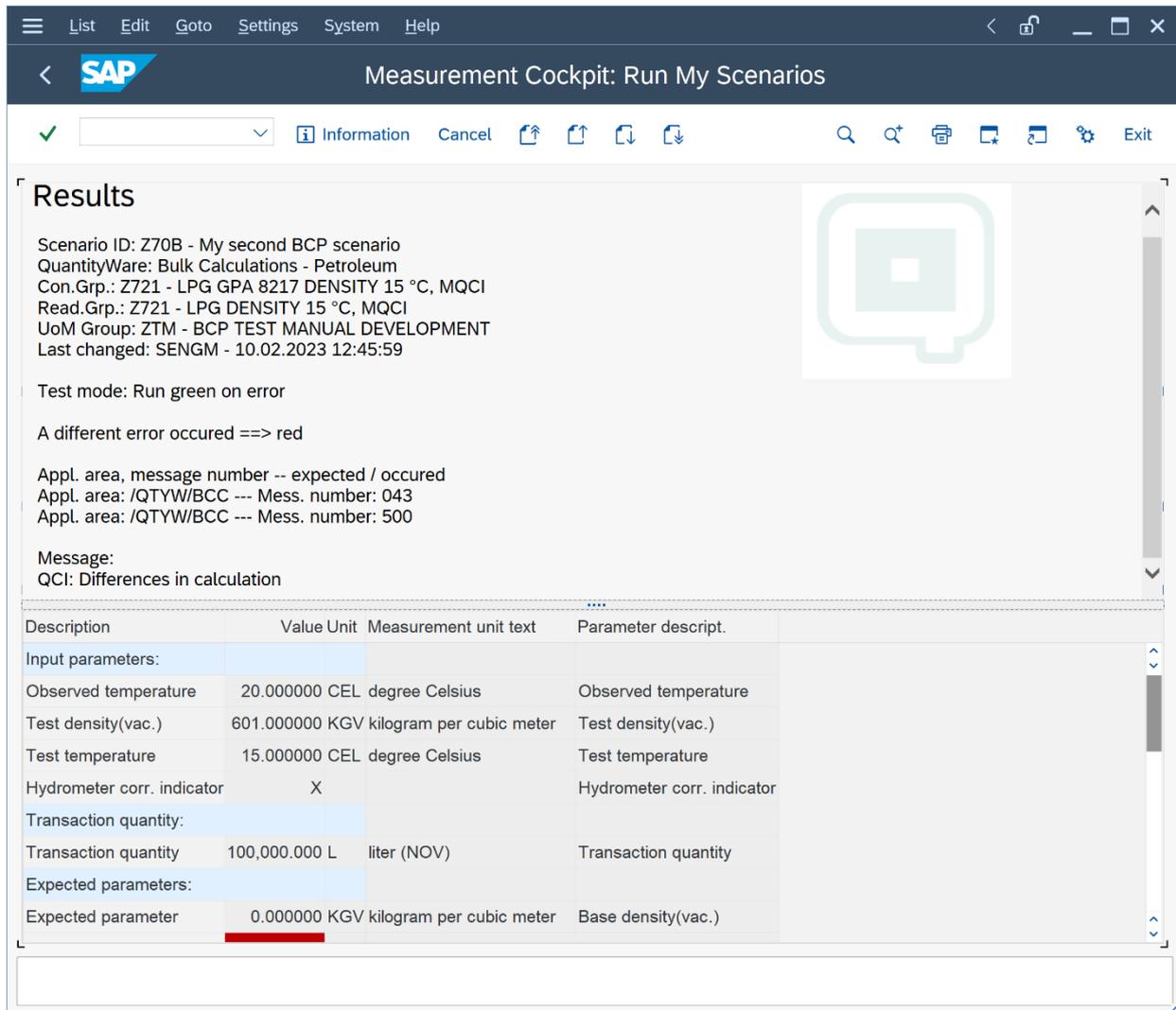
System/client:SOI/045
 Date time: 10.02.2023 12:49:14

My scenarios
 ERRORS detected

A large, faint QuantityWare logo is visible in the background of the results area.

Description	Value	Logs	Snapshots
Number of scenarios	0002		
Successfully executed	0001	No logs written	No snapshots written
Differences detected	0001	No logs written	No snapshots written

The expected range error is not raised during the internal test run, which is displayed in the detail view for the scenario:



Results

Scenario ID: Z70B - My second BCP scenario
 QuantityWare: Bulk Calculations - Petroleum
 Con.Grp.: Z721 - LPG GPA 8217 DENSITY 15 °C, MQCI
 Read.Grp.: Z721 - LPG DENSITY 15 °C, MQCI
 UoM Group: ZTM - BCP TEST MANUAL DEVELOPMENT
 Last changed: SENGM - 10.02.2023 12:45:59

Test mode: Run green on error

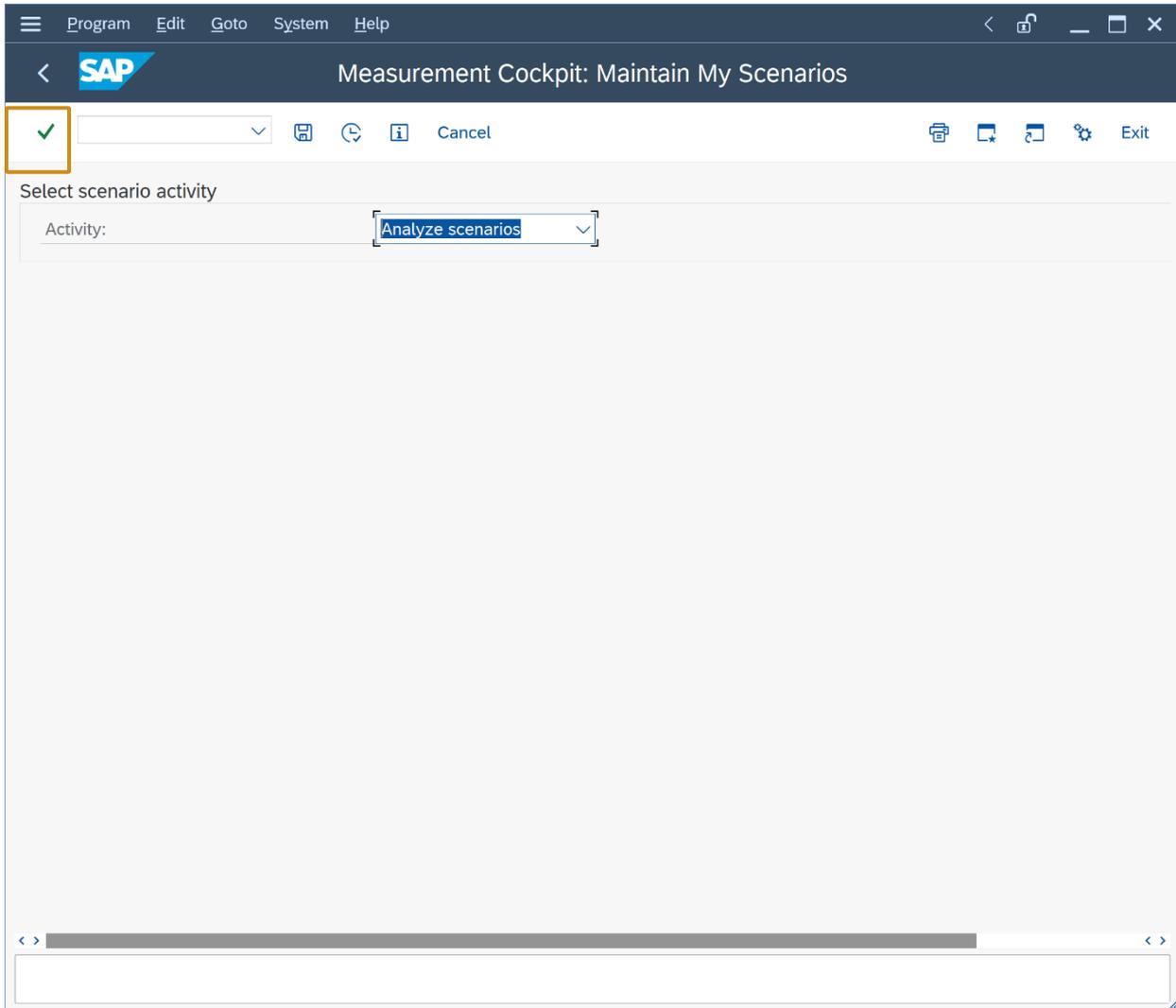
A different error occurred ==> red

Appl. area, message number -- expected / occurred
 Appl. area: /QTYW/BCC --- Mess. number: 043
 Appl. area: /QTYW/BCC --- Mess. number: 500

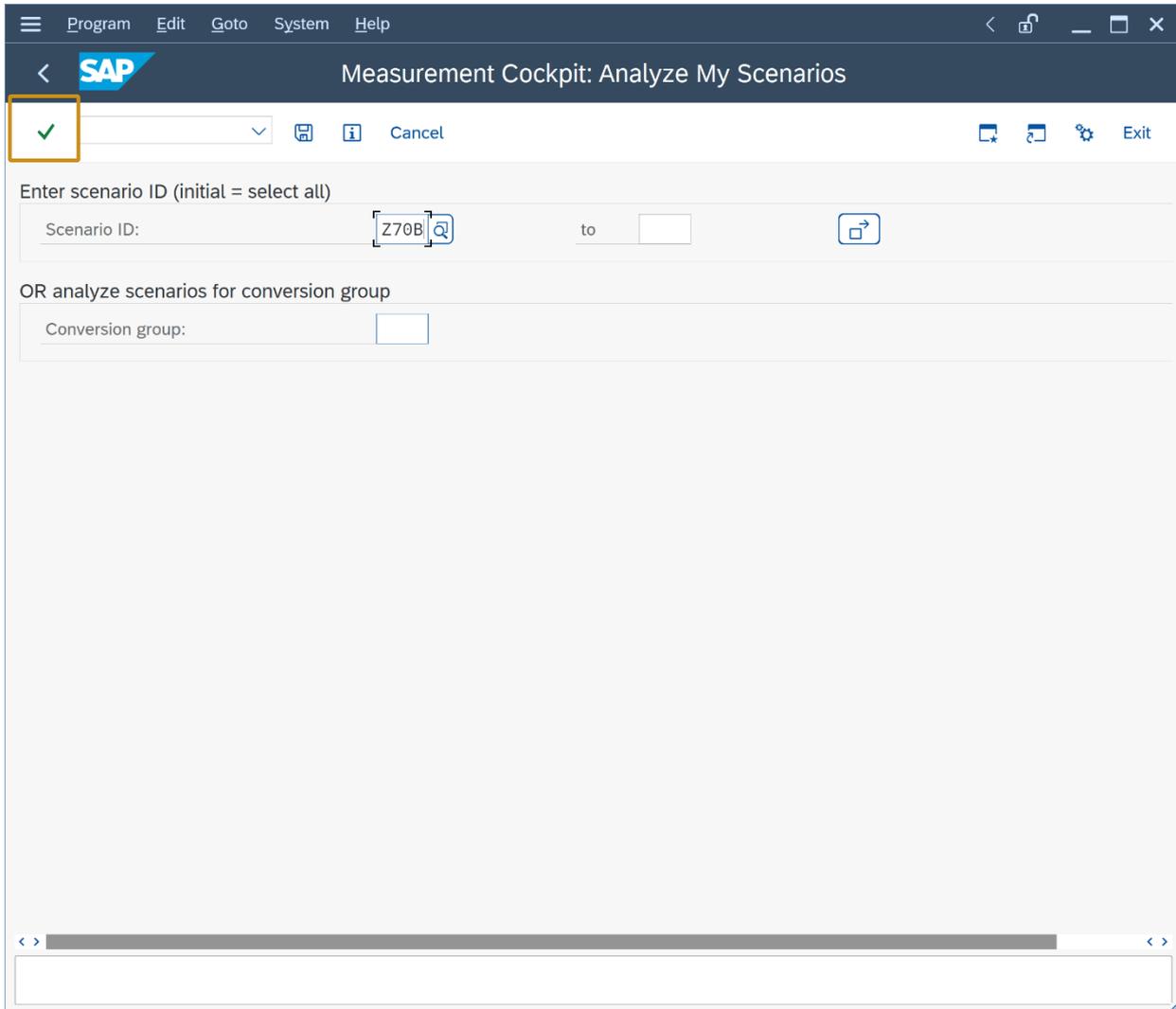
Message:
 QCI: Differences in calculation

Description	Value	Unit	Measurement unit text	Parameter descript.
Input parameters:				
Observed temperature	20.000000	CEL	degree Celsius	Observed temperature
Test density(vac.)	601.000000	KGV	kilogram per cubic meter	Test density(vac.)
Test temperature	15.000000	CEL	degree Celsius	Test temperature
Hydrometer corr. indicator	X			Hydrometer corr. indicator
Transaction quantity:				
Transaction quantity	100,000.000	L	liter (NOV)	Transaction quantity
Expected parameters:				
Expected parameter	0.000000	KGV	kilogram per cubic meter	Base density(vac.)

Go back to the PMC tab strip “Test Tools” and select “Maintain my test”. Now select the “Analyze scenarios” option, where we can compare the snapshot data with the current configuration data:



Enter the scenario ID Z702 and select "Execute (F8) to display the snapshot header data:



☰ List Edit Goto Settings System Help < 🔒 ▬ ✕

< **SAP** Measurement Cockpit: Analyze My Scenarios

✓ ℹ Information Cancel 📄 📄 📄 📄 🔍 🔍 🖨 📄 ⚙ Exit

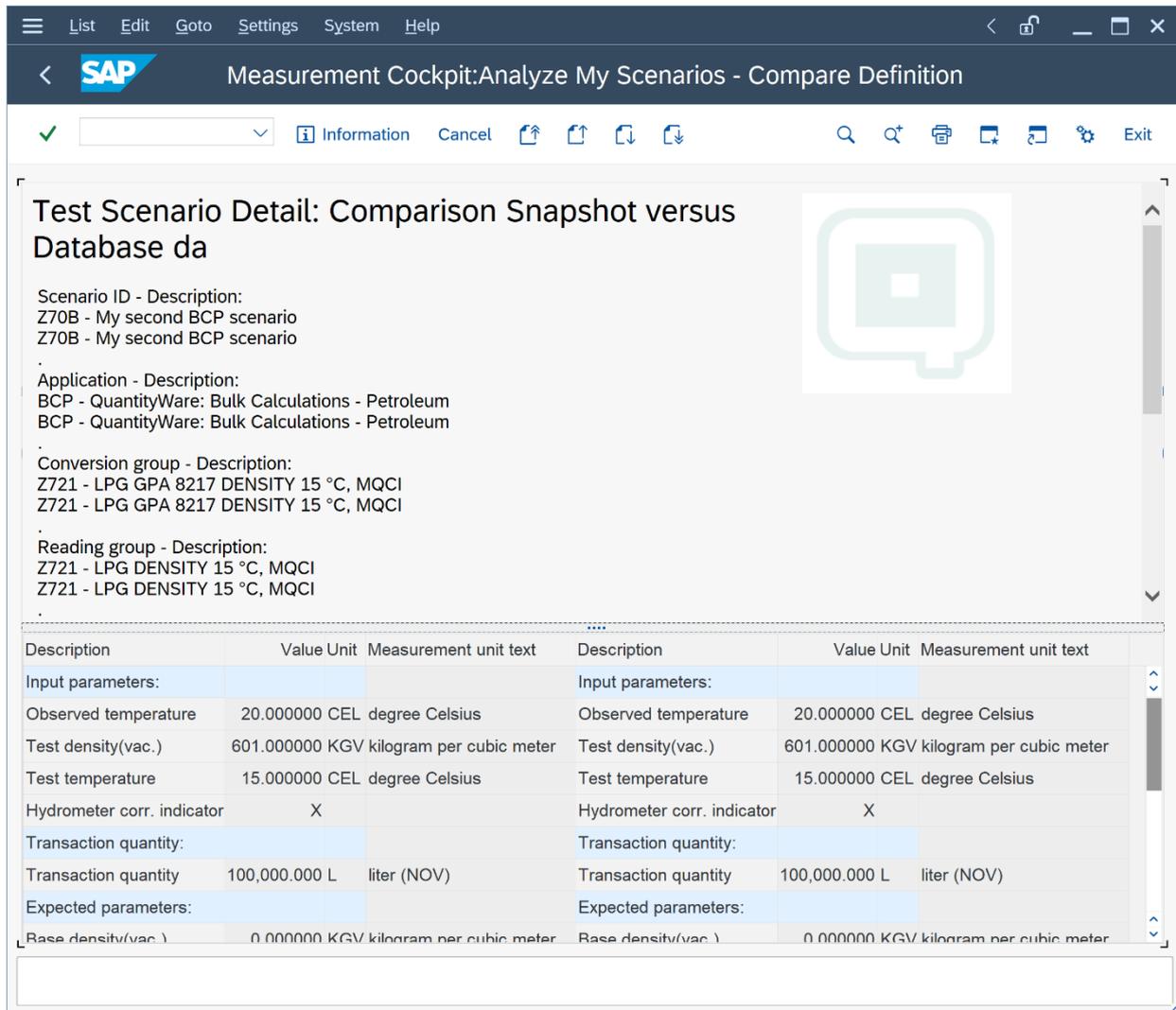
Test Scenario List for Analysis

Snapshot database
 Number of snapshots: 1
 Scenario -> Compare scenario (DB/Snapshot)
 Appl., Run date, Run time -> Analyze Scenario Config.



Scenario	Appl.	Run date	Run time	Run by	CvG	UoMG	Mod. by	Mod. date	Time
Z70B	BCP	10.02.2023	12:47:58	SENGM	Z721	ZTM	SENGM	10.02.2023	12:45:59

If you click the Scenario ID, the comparison of the snapshot data for the scenario and the actual scenario (running in the system) is displayed:



Test Scenario Detail: Comparison Snapshot versus Database da

Scenario ID - Description:
 Z70B - My second BCP scenario
 Z70B - My second BCP scenario

Application - Description:
 BCP - QuantityWare: Bulk Calculations - Petroleum
 BCP - QuantityWare: Bulk Calculations - Petroleum

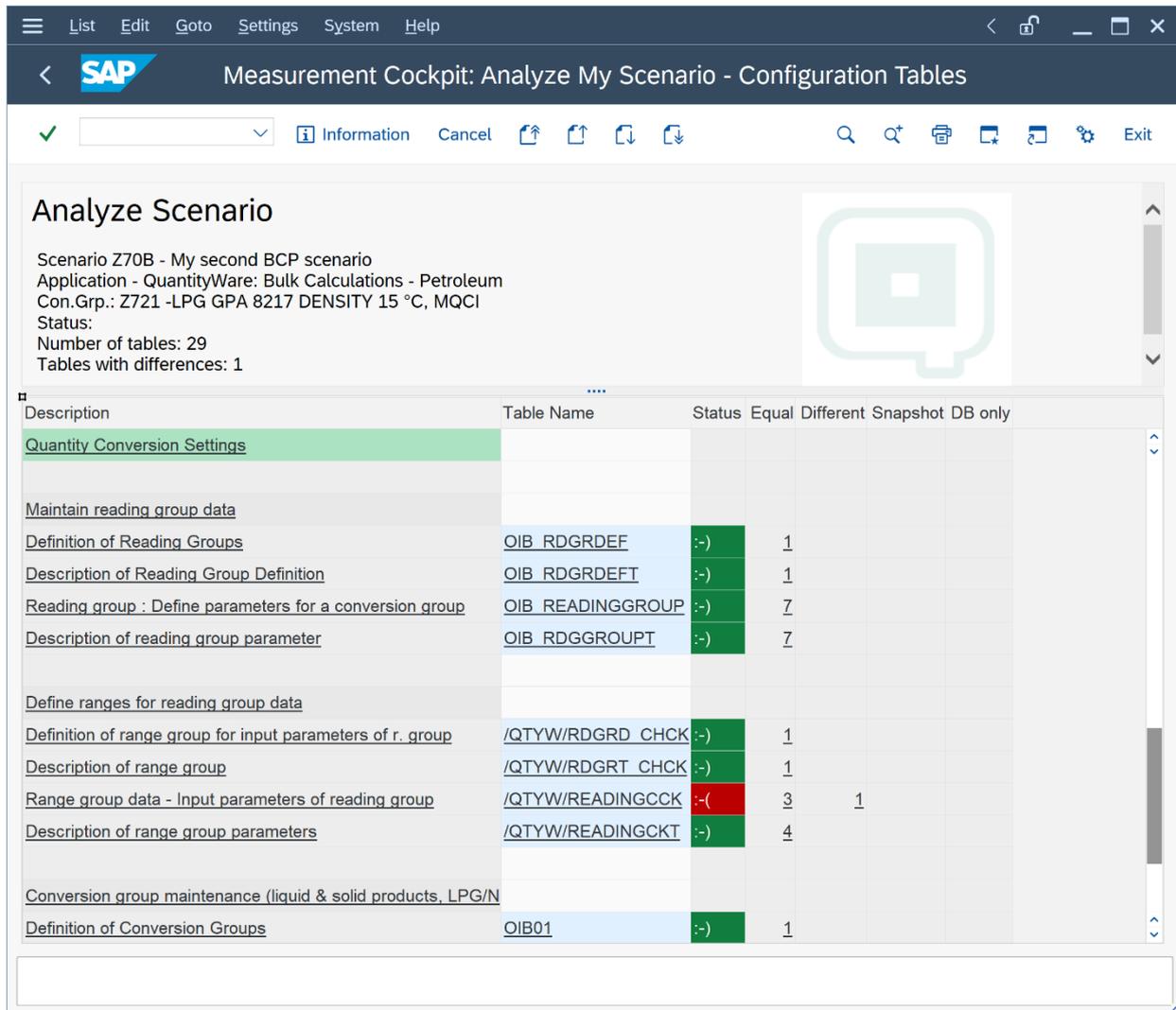
Conversion group - Description:
 Z721 - LPG GPA 8217 DENSITY 15 °C, MQCI
 Z721 - LPG GPA 8217 DENSITY 15 °C, MQCI

Reading group - Description:
 Z721 - LPG DENSITY 15 °C, MQCI
 Z721 - LPG DENSITY 15 °C, MQCI

Description	Value	Unit	Measurement unit text	Description	Value	Unit	Measurement unit text
Input parameters:				Input parameters:			
Observed temperature	20.000000	CEL	degree Celsius	Observed temperature	20.000000	CEL	degree Celsius
Test density(vac.)	601.000000	KGV	kilogram per cubic meter	Test density(vac.)	601.000000	KGV	kilogram per cubic meter
Test temperature	15.000000	CEL	degree Celsius	Test temperature	15.000000	CEL	degree Celsius
Hydrometer corr. indicator	X			Hydrometer corr. indicator	X		
Transaction quantity:				Transaction quantity:			
Transaction quantity	100,000.000	L	liter (NOV)	Transaction quantity	100,000.000	L	liter (NOV)
Expected parameters:				Expected parameters:			
Base density(vac.)	0.000000	KGV	kilogram per cubic meter	Base density(vac.)	0.000000	KGV	kilogram per cubic meter

Apparently, there are no differences, thus the scenario has not been changed (which could also be the cause of the error).

If you click the application (BCP), the configuration data is displayed and compared with the current system data:

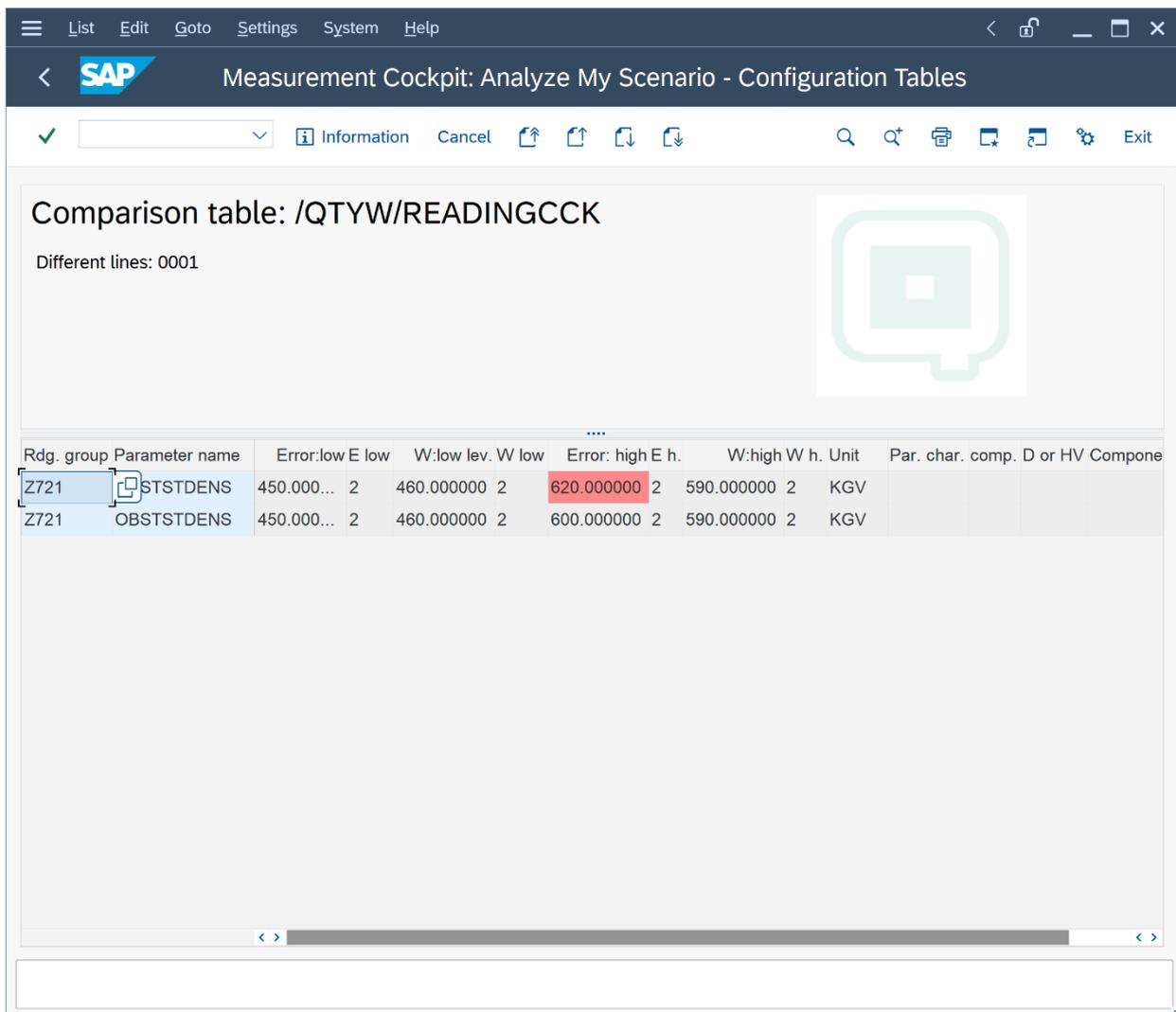


Analyze Scenario

Scenario Z70B - My second BCP scenario
 Application - QuantityWare: Bulk Calculations - Petroleum
 Con.Grp.: Z721 -LPG GPA 8217 DENSITY 15 °C, MQCI
 Status:
 Number of tables: 29
 Tables with differences: 1

Description	Table Name	Status	Equal	Different	Snapshot	DB only
Quantity Conversion Settings						
<u>Maintain reading group data</u>						
Definition of Reading Groups	OIB_RDGRDEF	:-)	1			
Description of Reading Group Definition	OIB_RDGRDEFT	:-)	1			
Reading group : Define parameters for a conversion group	OIB_READINGGROUP	:-)	7			
Description of reading group parameter	OIB_RDGGROUPT	:-)	7			
<u>Define ranges for reading group data</u>						
Definition of range_group for input parameters of r_group	/QTYW/RDGRD_CHK	:-)	1			
Description of range_group	/QTYW/RDGRT_CHK	:-)	1			
Range group data - Input parameters of reading group	/QTYW/READINGCCK	:-)	3	1		
Description of range_group parameters	/QTYW/READINGCKT	:-)	4			
<u>Conversion group maintenance (liquid & solid products, LPG/N</u>						
Definition of Conversion Groups	OIB01	:-)	1			

As expected, the change of the range data is marked in red and by clicking the "1" in the "Different" column, the change of the reading group range is displayed.



Rdg. group	Parameter name	Error:low E low	W:low lev. W low	Error: high E h.	W:high W h. Unit	Par. char. comp. D or HV Compone
Z721	STSTDENS	450.000...	2 460.000000 2	620.000000 2	590.000000 2 KGV	
Z721	OBSTDENS	450.000...	2 460.000000 2	600.000000 2	590.000000 2 KGV	

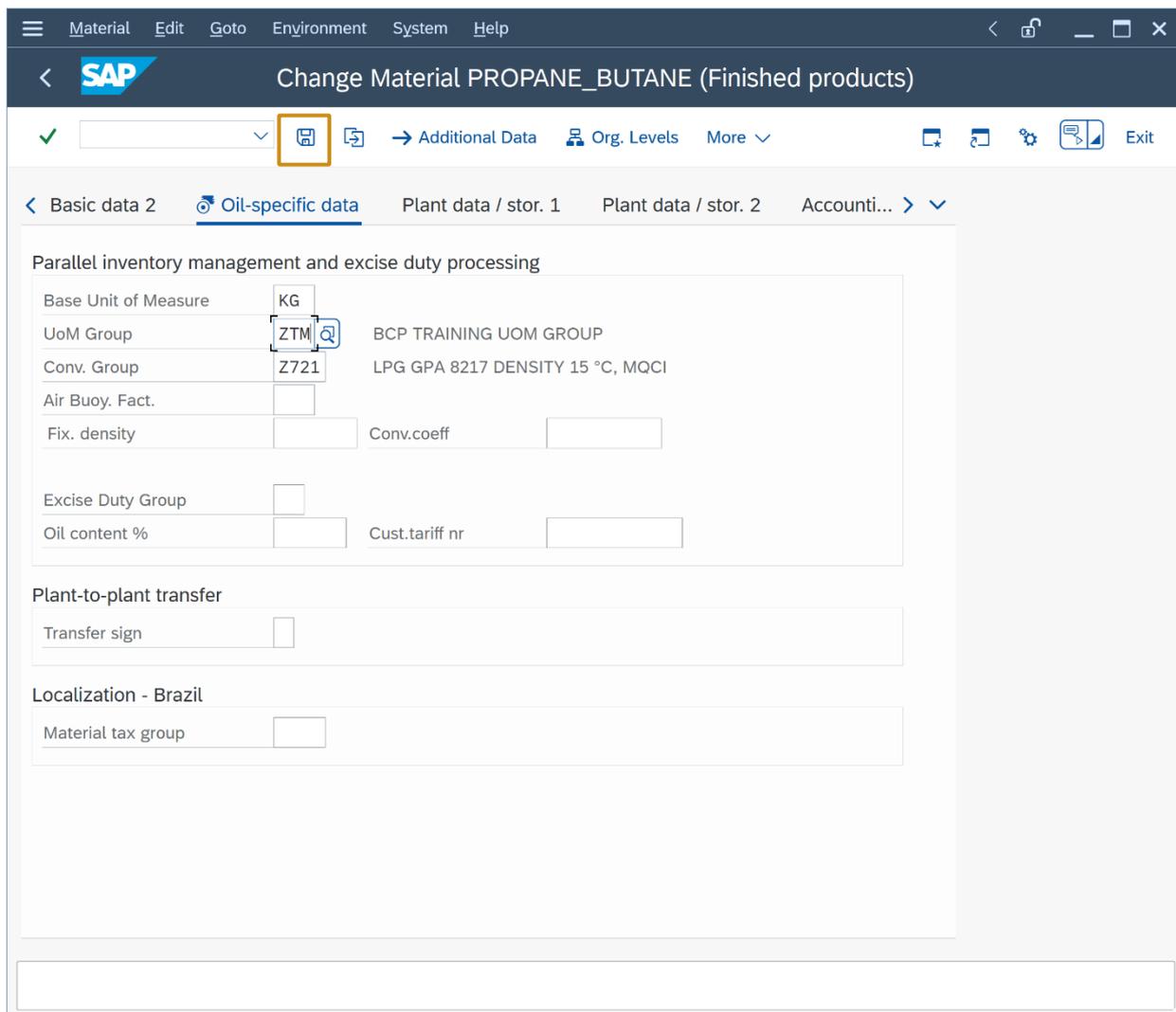
Practically seen from an application agents' perspective, this makes complex, laborious debugging of such issues a thing of the past! From a business management perspective, we have "raised the bar" in the areas of data integrity, security and process transparency as we have an easy-to-use automated "audit" check for the most important values in our ERP system – the quantity values.

2.8. Test Case 08 – Assign LPG Conversion Group to Material - Development

Estimated test case execution time: 30 minutes

Now that we have a well-defined conversion group Z721 available, including automated test scenarios (QuantityWare recommends to defined **at least** 4 scenarios per conversion group), we assign the conversion group to a material in the material master at plant level (Oil specific data view).

In our example development client, we utilize transaction MM02 (Change Material) and a commercial propane / butane, for which no UoM group and conversion group assignment had been done before (We can always change the conversion group):



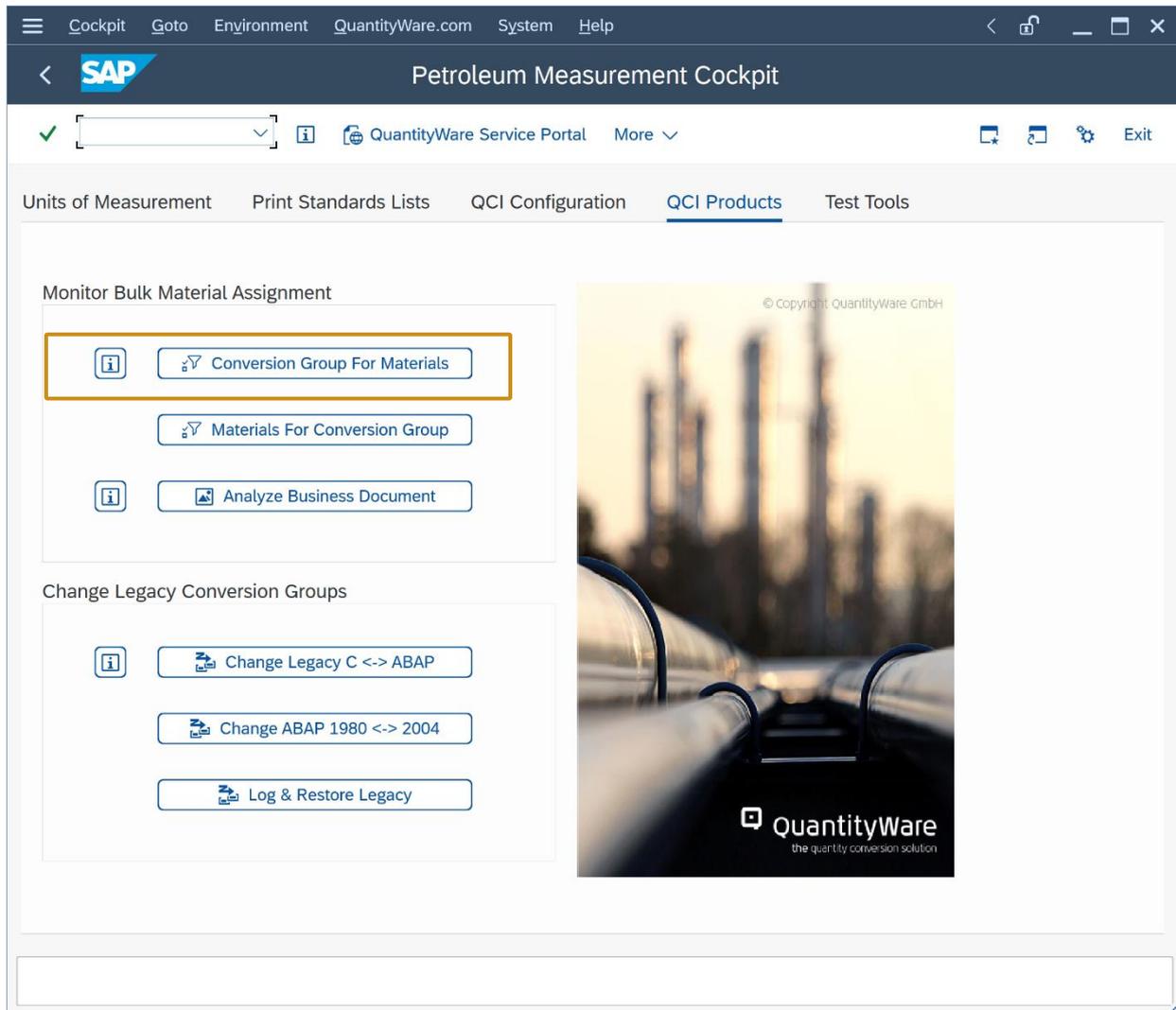
The screenshot shows the SAP MM02 'Change Material' transaction for 'PROPANE_BUTANE (Finished products)'. The 'Oil-specific data' tab is active. The 'Conv. Group' field is set to 'Z721' and is highlighted with a blue box. Other fields include 'Base Unit of Measure' (KG), 'UoM Group' (ZTM), and 'Air Buoy. Fact.'.

Parallel inventory management and excise duty processing			
Base Unit of Measure	KG		
UoM Group	ZTM	BCP TRAINING UOM GROUP	
Conv. Group	Z721	LPG GPA 8217 DENSITY 15 °C, MQCI	
Air Buoy. Fact.			
Fix. density		Conv.coeff	
Excise Duty Group			
Oil content %		Cust.tariff nr	

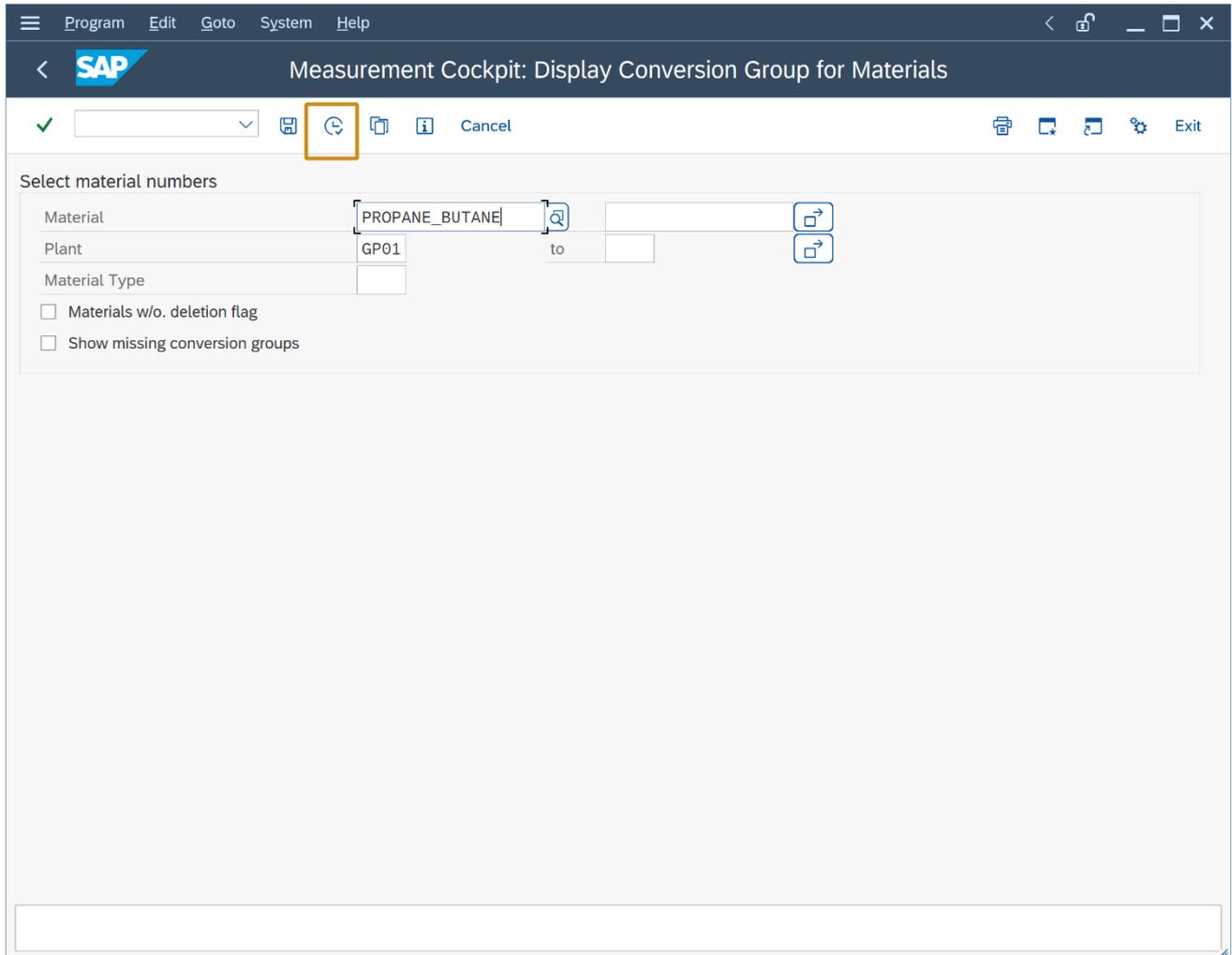
Plant-to-plant transfer	
Transfer sign	

Localization - Brazil	
Material tax group	

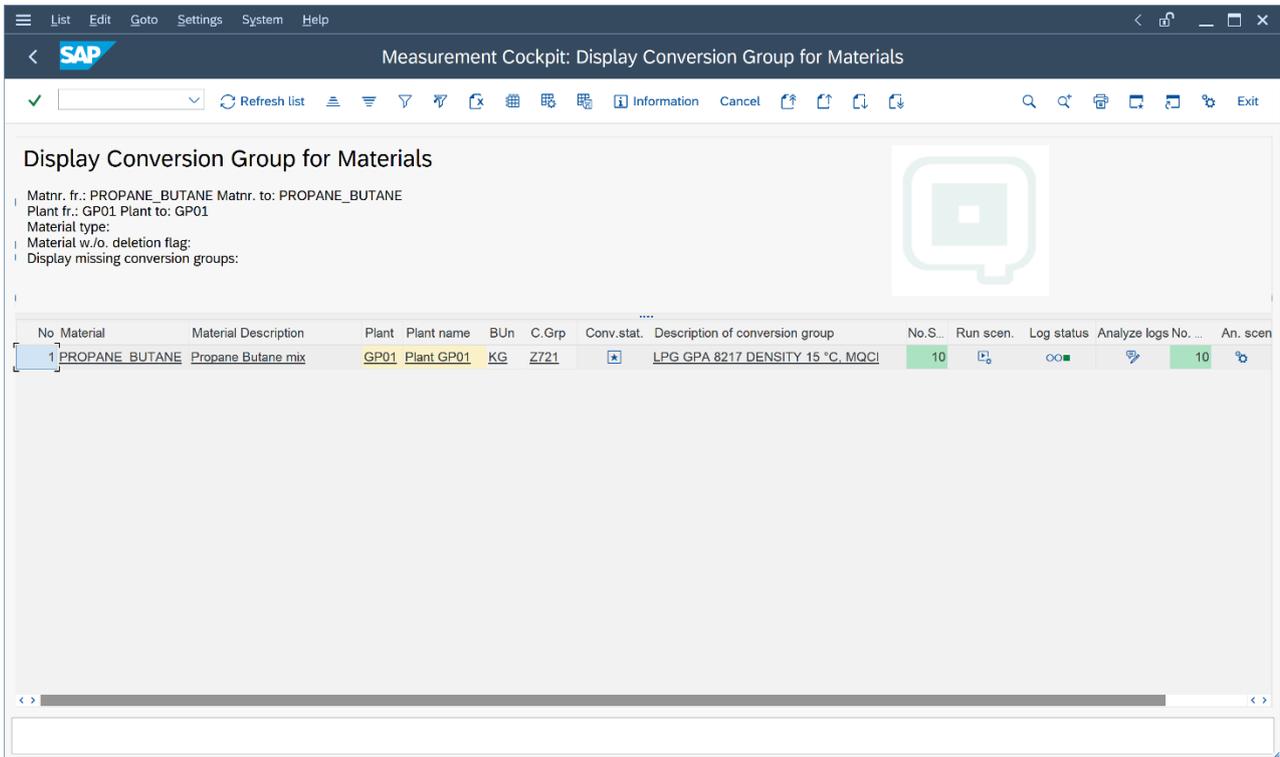
Let's go back to the Petroleum Measurement Cockpit, tab strip "QCI Products" and select "Conversion Group for Materials":



We enter e.g. the material code and plant and select "Execute" (F8):



From this central list, you can monitor the quantity conversion status for all materials in production, e.g. execute manual test scenario runs if errors have occurred, analyze the test scenario log status (typically the test scenarios should be executed via a periodic job in background) or perform a snapshot analysis:



The screenshot shows the SAP Measurement Cockpit interface for displaying conversion groups for materials. The title bar reads "Measurement Cockpit: Display Conversion Group for Materials". The main content area includes the following details:

- Matnr. fr.: PROPANE_BUTANE Matnr. to: PROPANE_BUTANE
- Plant fr.: GP01 Plant to: GP01
- Material type:
- Material w/o. deletion flag:
- Display missing conversion groups:

A table below displays the conversion group data:

No.	Material	Material Description	Plant	Plant name	BUn	C.Grp	Conv. stat.	Description of conversion group	No.S...	Run scen.	Log status	Analyze logs No. ...	An. scen
1	PROPANE_BUTANE	Propane Butane mix	GP01	Plant GP01	KG	Z721		LPG GPA 8217 DENSITY 15 °C, MQCI	10			10	

3. Summary

The BCP Test Manual provides overview guidance for testing the QuantityWare BCP solution and obtaining a detailed overview on the BCP capabilities.

The eight (8) test cases described in this document provide a quick and goal-oriented way to define an LPG conversion group for production usage. In addition, the importance of automated test scenarios is emphasized which is, with respect to time, typically the major effort in an implementation project (see BCP PAIG documentation for further details). Test scenarios can and should be transported through your system landscape together with your conversion group configuration, once defined in your development client. If your organization attributes value to auditing and auditable processes, test scenarios must be created, distributed and used.

As noted in test case 02, one of the most challenging tasks is the correct assignment of a BCP template conversion group to your bulk materials. In addition, the test cases described in this document assume that no further configuration adjustments to a template conversion group is required, which is not always the case. E.g. many template conversion groups are equipped with configuration options for specific requirements - trained experts have to decide whether changes are required before moving a Z*** copy to production.



Thus, if you decide to purchase and implement QuantityWare BCP, careful inspection, validation and implementation of BCP [by certified BCP consultants](#) or staff is strongly recommended - to save time and effort, but also to ensure that the configuration of such a fundamental system area has been performed accurately and correctly.

Legal Notices

© Copyright 2023 QuantityWare GmbH. All rights reserved.

SAP, R/3, mySAP, mySAP.com, xApps, xApp, SAP NetWeaver, and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and in several other countries all over the world. All other product and service names mentioned are the trademarks of their respective companies.

Microsoft, Windows, SQL-Server, PowerPoint and Outlook are registered trademarks of Microsoft Corporation.

These materials and the information therein are subject to change without notice. These materials are provided by the company QuantityWare GmbH for informational purposes only. There is no implied representation or warranty of any kind, and QuantityWare GmbH shall not be liable for errors or omissions with respect to the materials provided. The only warranties for the products and services of QuantityWare GmbH are those set forth in the express warranty statements accompanying such products and services, if any. No statement within this document should be construed as constituting an additional warranty.