

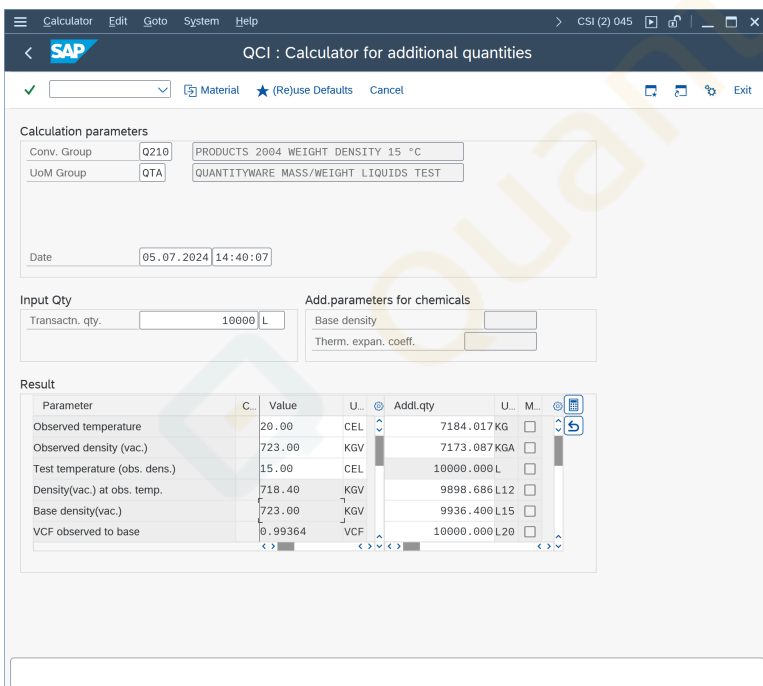
Note: 000120

Overview

Number	000120
Description	UoM VCF not saved as default in O3DEFAULTS
Version	01. from 23.07.2024
Status	Released to Customer
Language	EN
Responsible	Markus Seng
Product	BCS
Category	Consulting & Configuration

Symptom

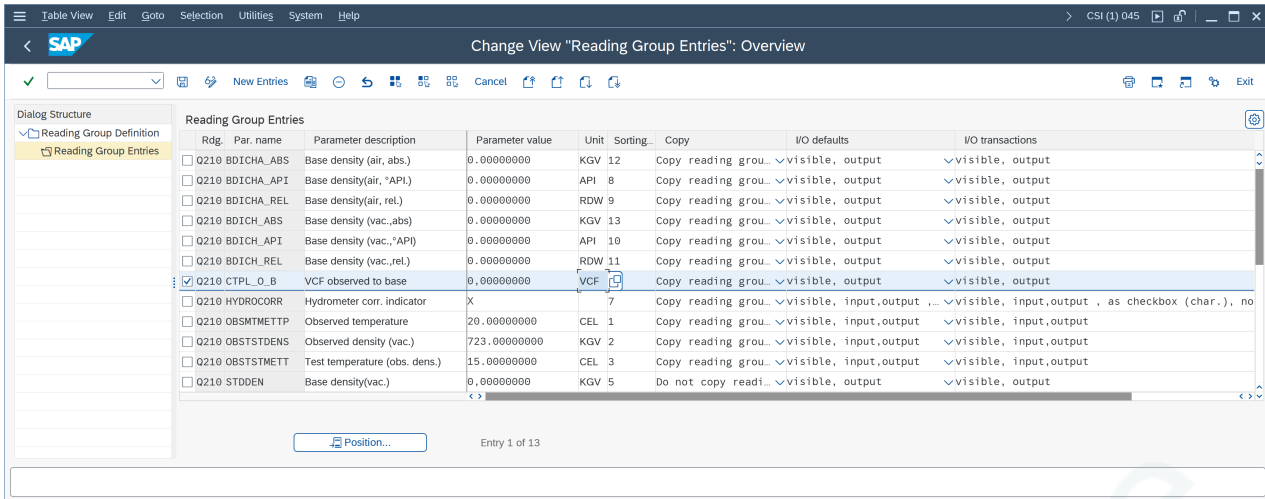
You utilize a copy of a QuantityWare template conversion group (e.g. of Q210), where the volume correction factor is calculated and displayed with 5 decimals:



The screenshot shows the SAP QCI: Calculator for additional quantities interface. The calculation parameters are as follows:

Parameter	Value	UoM	Addl. qty	UoM	M...
Observed temperature	20.00	CEL	7184.017	KG	
Observed density (vac.)	723.00	KGV	7173.087	KGA	
Test temperature (obs. dens.)	15.00	CEL	10000.000	L	
Density(vac.) at obs. temp.	718.40	KGV	9898.686	L12	
Base density(vac.)	723.00	KGV	9936.400	L15	
VCF observed to base	0.99364	VCF	10000.000	L20	

All result parameters are defined in the corresponding reading group, including the UoM VCF for the volume correction factor.

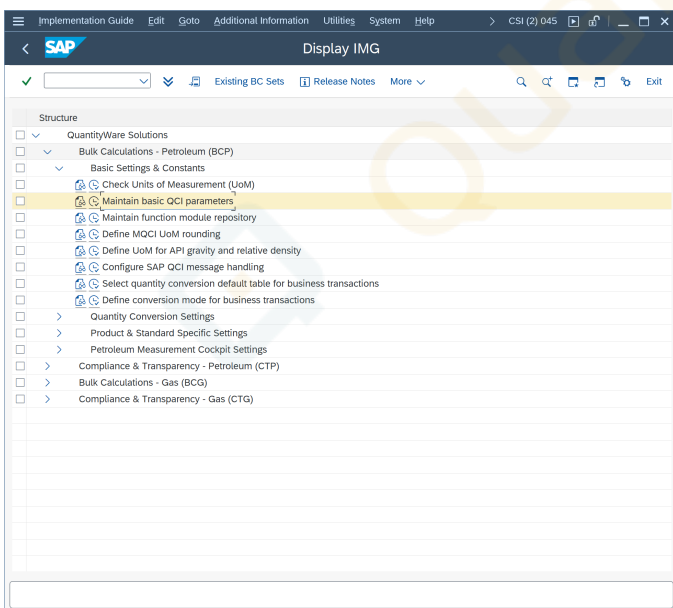


Rdg.	Par. name	Parameter description	Parameter value	Unit	Sorting	Copy	I/O defaults	I/O transactions
<input type="checkbox"/>	Q210 BDICHA_ABS	Base density (air, abs.)	0.00000000	KGV	12	Copy reading grou...	visible, output	visible, output
<input type="checkbox"/>	Q210 BDICHA_API	Base density (air, *API)	0.00000000	API	8	Copy reading grou...	visible, output	visible, output
<input type="checkbox"/>	Q210 BDICHA_REL	Base density (air, rel.)	0.00000000	RDW	9	Copy reading grou...	visible, output	visible, output
<input type="checkbox"/>	Q210 BDICH_ABS	Base density (vac, abs)	0.00000000	KGV	13	Copy reading grou...	visible, output	visible, output
<input type="checkbox"/>	Q210 BDICH_API	Base density (vac, *API)	0.00000000	API	10	Copy reading grou...	visible, output	visible, output
<input type="checkbox"/>	Q210 BDICH_REL	Base density (vac, rel.)	0.00000000	RDW	11	Copy reading grou...	visible, output	visible, output
<input checked="" type="checkbox"/>	Q210 CTPL_O_B	VCF observed to base	0.00000000	VCF		Copy reading grou...	visible, output	visible, output
<input type="checkbox"/>	Q210 HYDROCORR	Hydrometer corr. indicator	X		7	Copy reading grou...	visible, input,output	visible, input,output , as checkbox (char.), no
<input type="checkbox"/>	Q210 OBSMTMETTP	Observed temperature	20.00000000	CEL	1	Copy reading grou...	visible, input,output	visible, input,output
<input type="checkbox"/>	Q210 OBSTSTDENS	Observed density (vac.)	723.00000000	KGV	2	Copy reading grou...	visible, input,output	visible, input,output
<input type="checkbox"/>	Q210 OBSTSTMETT	Test temperature (obs. dens.)	15.00000000	CEL	3	Copy reading grou...	visible, input,output	visible, input,output
<input type="checkbox"/>	Q210 STDDEN	Base density(vac.)	0.00000000	KGV	5	Do not copy readi...	visible, output	visible, output

UoM VCF is defined with 5 decimals display in transaction CUNI. However, once you have created default data (transaction O3DEFAULTS) for your material assigned to the conversion group, the UoM VCF is not copied as default and subsequently the volume correction factor is displayed without UoM VCF. In SAP Tank Management, the volume correction factor is then displayed with 3 decimals, other SAP transactions (e.g. MIGO, TSW Ticketing ...) use 6 decimals for display. Internally, the volume correction factor is always stored and utilized with the correct number of decimals (depending on the CTL or CTPL measurement standard definition).

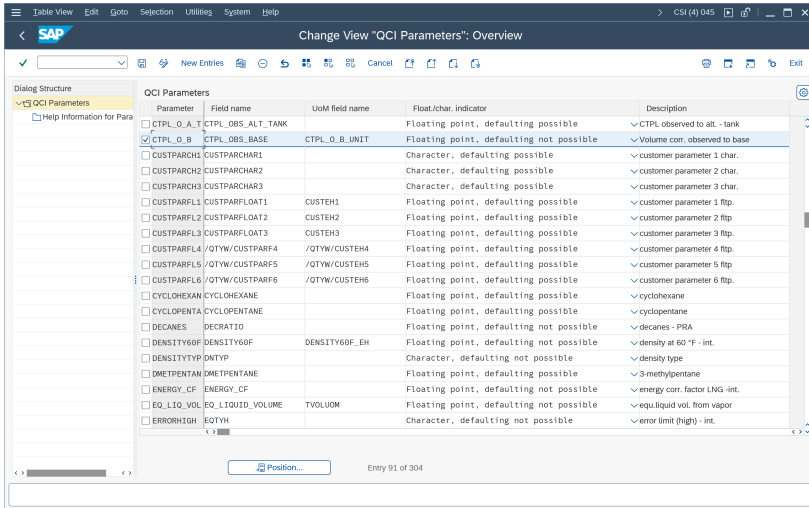
Cause

All technically available QCI parameters are defined in customizing table OIB07 - including more than 100 new parameters delivered within the QuantityWare BCS templates:



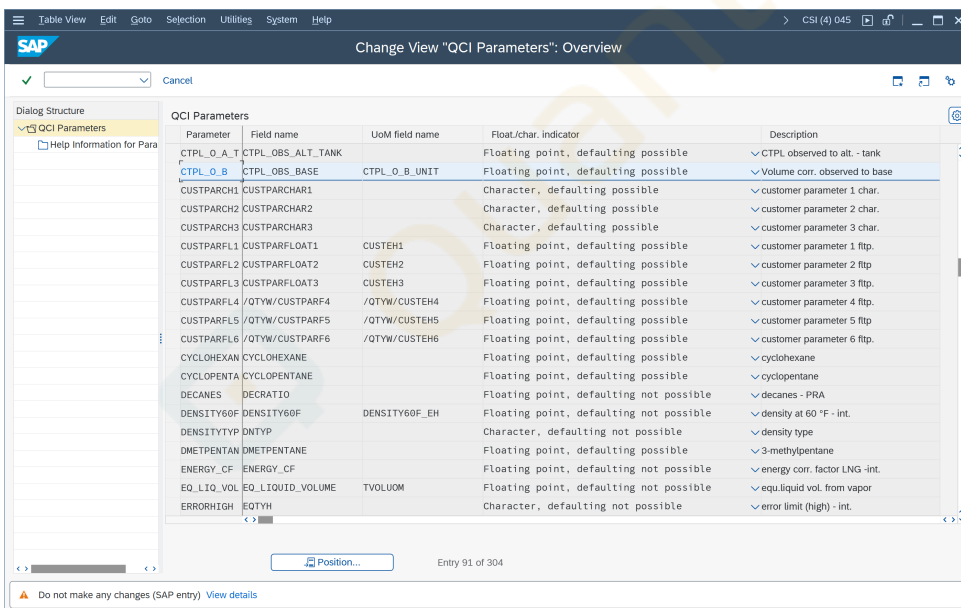
- QuantityWare Solutions
 - Bulk Calculations - Petroleum (BCP)
 - Basic Settings & Constants
 - Check Units of Measurement (UoM)
 - Maintain basic QCI parameters**
 - Maintain function module repository
 - Define MQCI UoM rounding
 - Define UoM for API gravity and relative density
 - Configure SAP QCI message handling
 - Select quantity conversion default table for business transactions
 - Define conversion mode for business transactions
 - Quantity Conversion Settings
 - Product & Standard Specific Settings
 - Petroleum Measurement Cockpit Settings
 - Compliance & Transparency - Petroleum (CTP)
 - Bulk Calculations - Gas (BCG)
 - Compliance & Transparency - Gas (CTG)

The parameter CTPL_O_B is defined as "Floating point, defaulting not possible". With this setting, the parameter (and associated UoM CTPL_O_B_UNIT) is not copied into the default data set by O3DEFAULTS.



Solution

Change the parameter setting to "Floating point, defaulting possible - accept the standard SAP warning message.



Change View "QCI Parameters": Overview

Parameter	Field name	UoM field name	Float/char.indicator	Description
<input type="checkbox"/> CTPL_O_A_T	CTPL_OBS_ALT_TANK		Floating point, defaulting possible	CTPL observed to alt. -tank
<input checked="" type="checkbox"/> CTPL_O_B	CTPL_OBS_BASE	CTPL_O_B_UNIT	Floating point, defaulting possible	Volume corr. observed to base
<input type="checkbox"/> CUSTPARCH1	CUSTPARCHAR1		Character, defaulting possible	customer parameter 1 char.
<input type="checkbox"/> CUSTPARCH2	CUSTPARCHAR2		Character, defaulting possible	customer parameter 2 char.
<input type="checkbox"/> CUSTPARCH3	CUSTPARCHAR3		Character, defaulting possible	customer parameter 3 char.
<input type="checkbox"/> CUSTPARFL1	CUSTPARFLOAT1	CUSTEH1	Floating point, defaulting possible	customer parameter 1 ftp.
<input type="checkbox"/> CUSTPARFL2	CUSTPARFLOAT2	CUSTEH2	Floating point, defaulting possible	customer parameter 2 ftp.
<input type="checkbox"/> CUSTPARFL3	CUSTPARFLOAT3	CUSTEH3	Floating point, defaulting possible	customer parameter 3 ftp.
<input type="checkbox"/> CUSTPARFL4	/QTYW/CUSTPARF4	/QTYW/CUSTEH4	Floating point, defaulting possible	customer parameter 4 ftp.
<input type="checkbox"/> CUSTPARFL5	/QTYW/CUSTPARF5	/QTYW/CUSTEH5	Floating point, defaulting possible	customer parameter 5 ftp.
<input type="checkbox"/> CUSTPARFL6	/QTYW/CUSTPARF6	/QTYW/CUSTEH6	Floating point, defaulting possible	customer parameter 6 ftp.
<input type="checkbox"/> CYCLOHEXAN	CYCLOHEXANE		Floating point, defaulting possible	cyclohexane
<input type="checkbox"/> CYCLOPENTA	CYCLOPENTANE		Floating point, defaulting possible	cyclopentane
<input type="checkbox"/> DECANES	DECARTIO		Floating point, defaulting not possible	decanes - PRA
<input type="checkbox"/> DENSTY60F	DENSITY60F	DENSITY60F_EH	Floating point, defaulting not possible	density at 60 °F - int.
<input type="checkbox"/> DENSTYTYP	DNTYP		Character, defaulting not possible	density type
<input type="checkbox"/> DMETPENTAN	DMETPENTANE		Floating point, defaulting possible	3-methylpentane
<input type="checkbox"/> ENERGY_CF	ENERGY_CF		Floating point, defaulting not possible	energy corr. factor LNG-int.
<input type="checkbox"/> EQ_LIQ_VOL	EQ_LIQUID_VOLUME	TVOLUOM	Floating point, defaulting not possible	equ.liquid vol. from vapor
<input type="checkbox"/> ERRORRHIGH	EOTYH		Character, defaulting not possible	error limit (high) - int.

Position... Entry 91 of 304

Data was saved View details

In order to map this setting into the reading group, you have to perform a dummy change on the reading group's parameter CTPL_O_B, as this is a hidden view field in the maintenance view - field FLOAT_CHAR:

Data Browser: Table OIB_READINGGROUP Select Entries 13

MANDT	RDGGRP	PAR_NAME	PAR_FLTP	PAR_CHAR	UNIT_CHAR	CHAR_FLAG	PAR_LENGTH	ITEM	CONSTANT_COPY	SCREEN_FLAG_DEF	SCREEN_FLAG	FLOAT_CHAR	SCREENGROUP	DESCR
045	Q210	BDICHA_ABS	0.000000000000000E+00	0.00000000	KGV	00	012	2	2	2	1			Base density (air, abs.)
045	Q210	BDICHA_API	0.000000000000000E+00	0.00000000	API	00	008	2	2	2	1			Base density (air, API.)
045	Q210	BDICHA_REL	0.000000000000000E+00	0.00000000	RDW	00	009	2	2	2	1			Base density (air, rel.)
045	Q210	BDICHA_ABS	0.000000000000000E+00	0.00000000	KGV	00	013	2	2	2	1			Base density (vac, abs)
045	Q210	BDICHA_API	0.000000000000000E+00	0.00000000	API	00	010	2	2	2	1			Base density (vac, API)
045	Q210	BDICHA_REL	0.000000000000000E+00	0.00000000	RDW	00	011	2	2	2	1			Base density (vac, rel.)
045	Q210	CTPL_O_B	0.000000000000000E+00	0.00000000	VCF	00	006	2	2	2	2			VCF observed to base
045	Q210	HYDROCORR	0.000000000000000E+00	X		X	007	3	3	3	2			Hydrometer corr. indicator
045	Q210	OBSTMETTP	2.000000000000000E+01	20.00000000	CEL	00	001	1	1	1	1			Observed temperature
045	Q210	OBSTSTDENS	7.230000000000000E+02	723.00000000	KGV	00	002	1	1	1	1			Observed density (vac.)
045	Q210	OBSTSTMETT	1.500000000000000E+01	15.00000000	CEL	00	003	1	1	1	1			Test temperature (obs. dens.)
045	Q210	STDDEN	0.000000000000000E+00	0.00000000	KGV	00	005	2	2	2	1			Base density (vac.)
045	Q210	TDICHA_M	0.000000000000000E+00	0.00000000	KGV	00	004	2	2	2	1			Density (vac.) at obs. temp.

Transport Reference

No SAP-based transport

Validity

SAP Release	From SP	To SP	In SP Shipment
ECC600	BCS 3.0 CSP00	BCS 3.0 CSP03	BCS 3.0 CSP04
S/4 HANA	BCS 3.0 CSP00	BCS 3.0 CSP02	BCS 3.0 CSP03