

Note: 000074

Overview

Number	000074
Description	Support of ASTM D1555(M)-2016
Version	1 from 10.11.2017
Status	Released to Customer
Language	EN
Responsible	Markus Seng
Product	BCP
Category	Advanced Development

Symptom

ASTM D1555 and the metric version ASTM D1555M have been issued as a new version in 2016. Among several changes of this new version, when compared to the previous versions, the rounding of results (CTL / VCF values and base densities in air) are no longer explicitly defined in the standard. This change requires a new implementation of ASTM D1555(M)-2016.

Cause

N/A

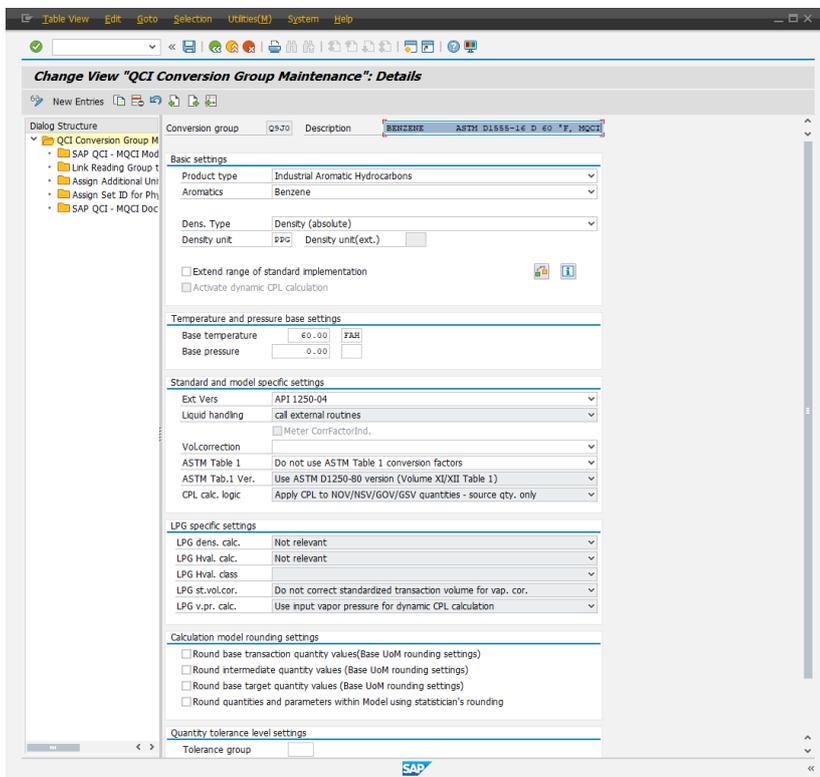
Solution

With this note, a new implementation for both ASTM D1555-2016 and ASTM D1555M-2016 is delivered as an advanced development. This advanced development does not contain new configuration data (66 new Q9** template conversion groups, reading groups and range groups), which will be delivered with BCS 3.0 CSP02 (planned delivery Q1 2019). In the subsequent section, configuration examples are given how to configure new ASTM D1555(M)-2016 conversion groups in your existing BCP 3.0 template client 045, after you have applied the transport contained in this note.

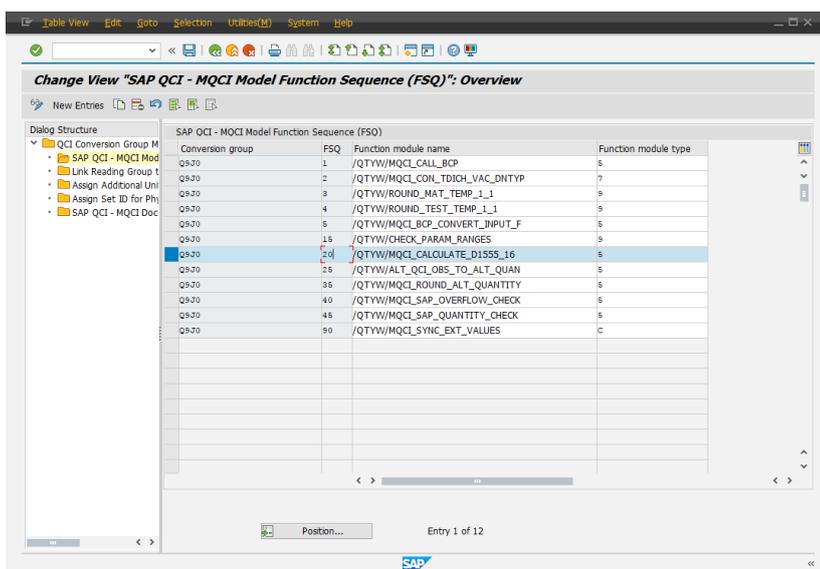
Important: Read [Note 000072](#) before you utilize SAP QCI conversion groups for weight calculations.

Configuration examples - ASTM D1555(M)2-16:

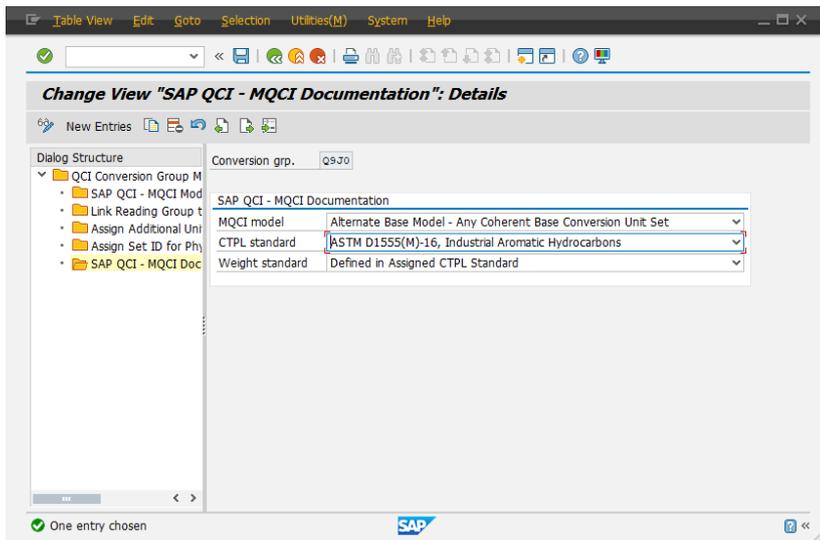
MQCI conversion group configuration for Benzene:



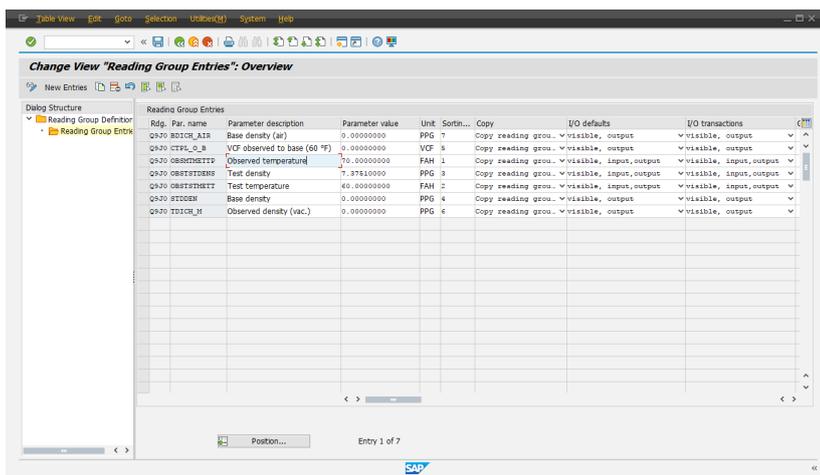
MQCI Function Module Sequence:



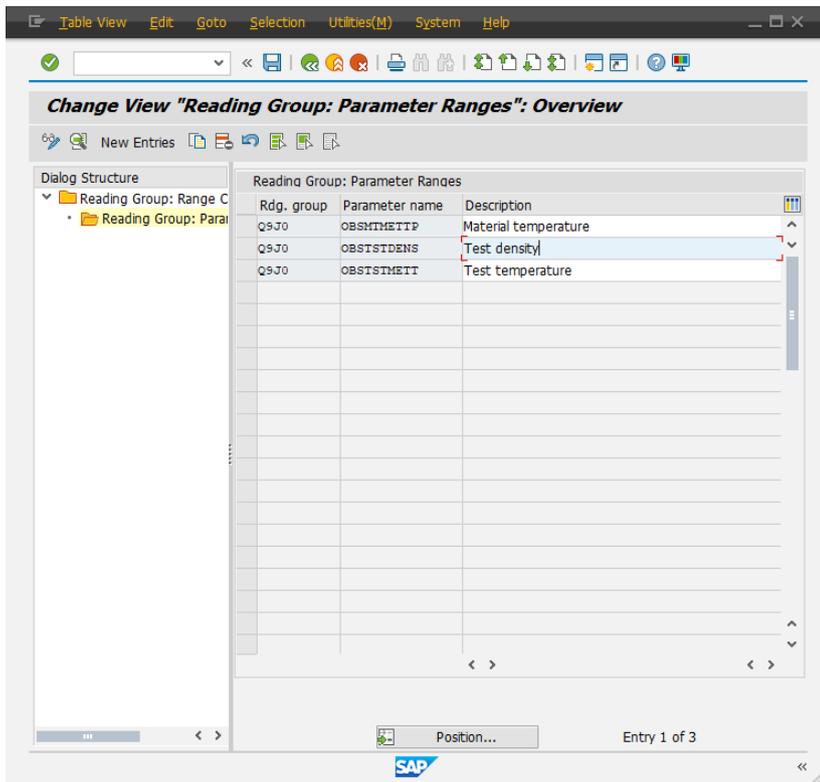
MQCI Conversion Group Documentation:



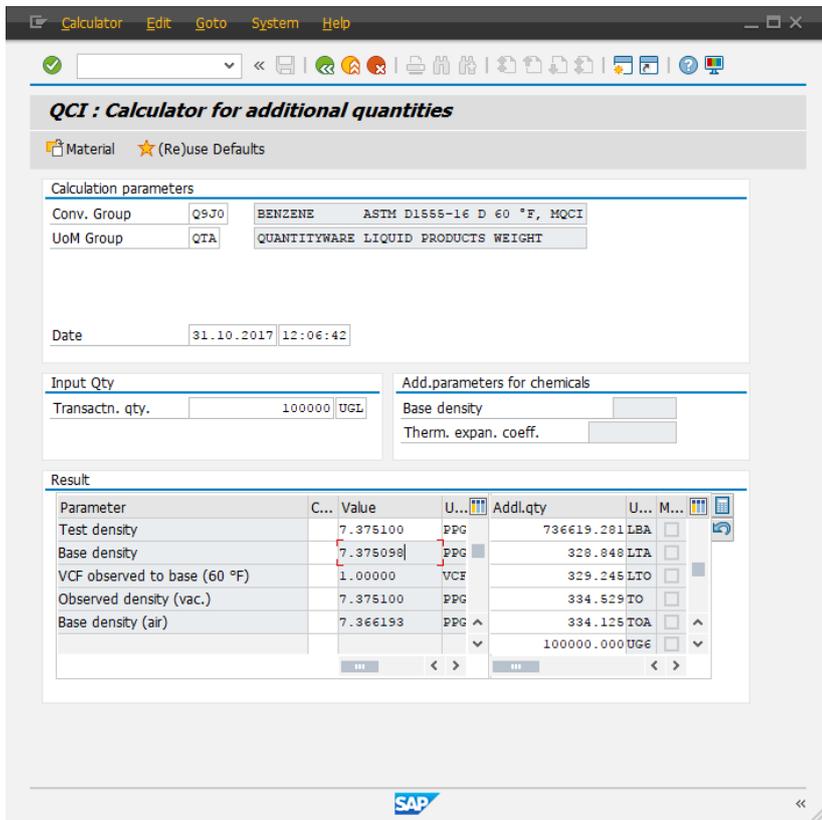
Reading Group Configuration:



Range Group Parameters:



Test Calculation:



QCI : Calculator for additional quantities

Material (Re)use Defaults

Calculation parameters

Conv. Group: Q9J0 BENZENE ASTM D1555-16 D 60 °F, MQCI
 UoM Group: QTA QUANTITYWARE LIQUID PRODUCTS WEIGHT

Date: 31.10.2017 12:06:42

Input Qty: Transactn. qty. 100000 UGL

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

Parameter	C...	Value	U...	Addl.qty	U... M...
Test density		7.375100	PPG	736619.281	LBA
Base density		7.375098	PPG	329.848	LTA
VCF observed to base (60 °F)		1.00000	VCF	329.245	LTO
Observed density (vac.)		7.375100	PPG	334.529	TO
Base density (air)		7.366193	PPG	334.125	TOA
				100000.000	UG6

- For other products than Benzene, simply change the aromatics indicator from Benzene to the required aromatics indicator in the MQCI conversion group.
- For other base temperatures than 60 °F (15 °C or 20 °C), change the base temperature from 60 °F to the new base temperature (15 °C or 20 °C) in the MQCI conversion group.

QuantityWare recommends that you contact your certified BCP consultant for a new implementation project of ASTM D1555(M)-2016 to support you with such tasks.

Note: With this advanced development, several **typographical errors** of documentation objects of the Petroleum and Gas Measurement Cockpit have been corrected and are delivered with the associated transport as well.

Transport Reference

SAP Release	Transport	File Name	Notes
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ECC600	QOIK900307	NOTE-00074-30x.SAR	
S/4 HANA	QOIK900307	NOTE-00074-30x.SAR	1610; 1709

Validity

SAP Release	From SP	To SP	In SP Shipment
ECC600	BCS 3.0 CSP01	BCS 3.0 CSP01	BCS 3.0 CSP02
S/4 HANA	BCS 3.0	BCS 3.0	BCS 3.0 CSP01