Note: 000072

Overview

Number	**000072**
Description	**SAP QCI Weight Calculations - ASTM D1555(M)**
Version	**2 from 14.07.2017**
Status	**Released to Customer**
Language	**EN**
Responsible	**Markus Seng**
Product	**BCP**
Category	**Consulting & Configuration**

Symptom

QuantityWare recommends utilizing MQCI conversion groups for greenfield implementations.

However, you decide to utilize a SAP QCI template conversion group (e.g. copy of Q900) for industrial aromatic hydrocarbons for weight calculations. Thus, you define an air buoyancy factor in the material master. For calculations, you set the air buoyancy indicator for the weight values. The weight values appear to be adjusted twice for air buoyancy.

Cause

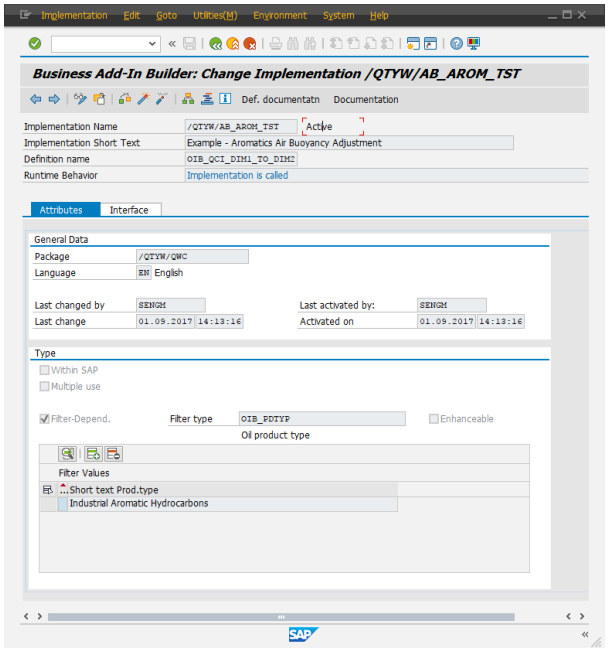
ASTM D1555 and ASTM D1555M define volume correction factors **and** density in air calculations for industrial aromatic hydrocarbons. Thus, the BCP implementation passes the density in air back to the SAP QCI if the air buoyancy indicator is set, to ensure standard compliance with ASTM D1555(M). Then, the standard SAP QCI logic applies the air buoyancy correction to the base density in air, which is not required.

Solution

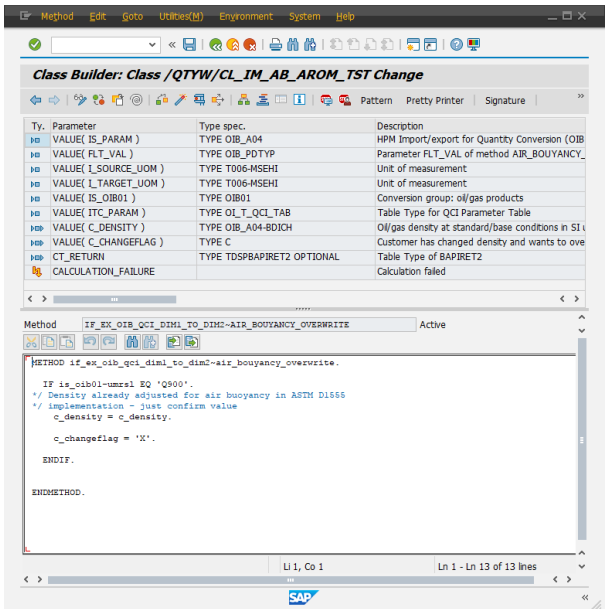
If you wish to utilize SAP QCI conversion groups (Q9**) for your industrial aromatic hydrocarbon product weight calculations and not the corresponding MQCI conversion groups (Q9**), you need to define a

customer specific BAdI Implementation in your system, where you overwrite the standard SAP QCI air buoyancy logic.

You select SAP QCI BAdI OIB_QCI_DIM1_TO_DIM2 and define your implementation for Industrial Aromatic Hydrocarbons:



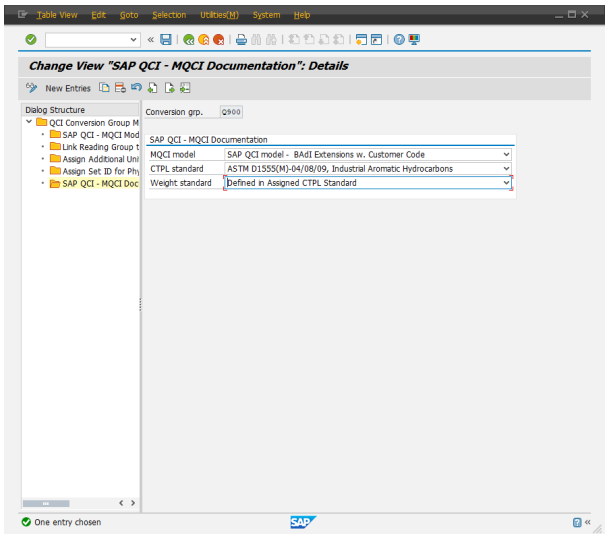
There, you implement method AIR_BOUYANCY_OVERWRITE, where you simply accept the ASTM D1555 base density in air calculated value for your SAP QCI conversion groups - Example:



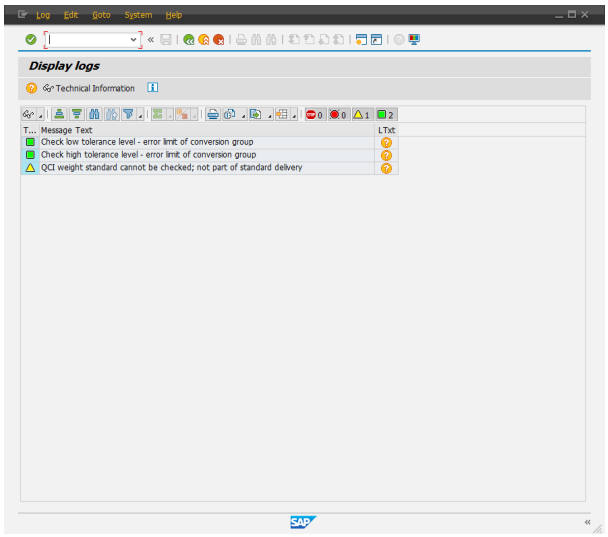
QuantityWare cannot deliver BAdI implementations in the standard delivery for BCS, since these may conflict with existing BAdI implementations at customer site.

After you have validated your BAdI implementation and your test scenarios are in place, you should set

the weight documentation of the conversion group to "Defined in Assigned CTPL Standard":



such that the conversion group check is also passed, but now with a warning message indicating that a customer specific BAdI implementation is in place:



Transport Reference

No SAP-based transport

Validity

SAP Release	From SP	To SP	In SP Shipment
ECC600	ALL	ALL	ALL
S/4 HANA	ALL	ALL	ALL