

Note: 000128

Overview

Number	000128
Description	Special Applications - UoM Defaulting
Version	01 from 12.10.2026
Status	Released to Customer
Language	EN
Responsible	Guido Jager
Product	BCP
Category	Advanced Development

Symptom

For a **Special Applications conversion group** (also known as "**Chemicals conversion group**"), during SAP TAS IDOC processing or BAPI GoodsMovementOil processing, a "missing UoM" error or a "missing fixed density/thermal expansion coefficient" error is raised and the movement documents are not posted.

Cause

The cause is described in great detail in the [What is special about "Special Applications" FAQ](#).

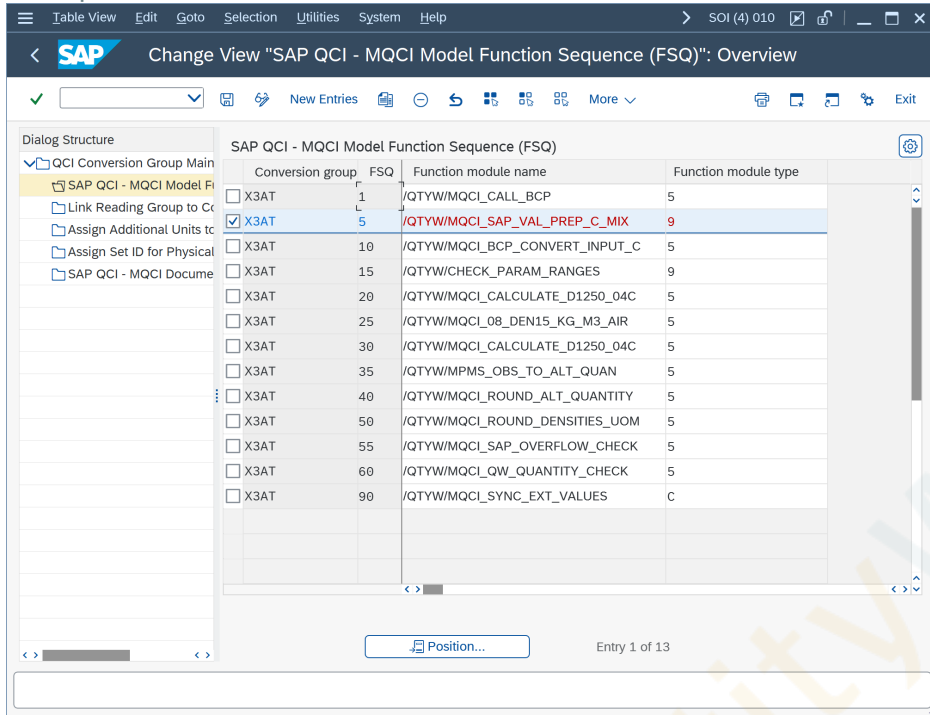
Solution

With this note, two additional Special Applications default function modules are delivered, which may be utilized to replace function /QTYW/MQCI_SAP_VAL_PREP_C (and/or your own Z default function) in your special applications conversion group:

- **/QTYW/MQCI_SAP_VAL_PREP_C_MIX** - Defaults values for the fixed (base) density and the thermal expansion coefficient from the SAP Material Master and the corresponding UoM from the reading group, if both values are initial when the QCI calculation is triggered.

- **/QTYW/MQCI_SAP_VAL_PREP_C_RDGP** - Defaults values and UoM for the fixed (base) density and the thermal expansion coefficient from the reading group, if both values are initial when the QCI calculation is triggered.

Example:



The screenshot shows the SAP QCI - MQCI Model Function Sequence (FSQ) Overview. The table lists the following entries:

Conversion group	FSQ	Function module name	Function module type
☐ X3AT	1	/QTYW/MQCI_CALL_BCP	5
☒ X3AT	5	/QTYW/MQCI_SAP_VAL_PREP_C_MIX	9
☐ X3AT	10	/QTYW/MQCI_BCP_CONVERT_INPUT_C	5
☐ X3AT	15	/QTYW/CHECK_PARAM_RANGES	9
☐ X3AT	20	/QTYW/MQCI_CALCULATE_D1250_04C	5
☐ X3AT	25	/QTYW/MQCI_08_DEN15_KG_M3_AIR	5
☐ X3AT	30	/QTYW/MQCI_CALCULATE_D1250_04C	5
☐ X3AT	35	/QTYW/MPMS_OBS_TO_ALT_QUAN	5
☐ X3AT	40	/QTYW/MQCI_ROUND_ALT_QUANTITY	5
☐ X3AT	50	/QTYW/MQCI_ROUND_DENSITIES_UOM	5
☐ X3AT	55	/QTYW/MQCI_SAP_OVERFLOW_CHECK	5
☐ X3AT	60	/QTYW/MQCI_QW_QUANTITY_CHECK	5
☐ X3AT	90	/QTYW/MQCI_SYNC_EXT_VALUES	C

Transport Reference

SAP Release	Transport	File Name	Notes
ECC600	QOIK900407	NOTE-00128-30x.SAR	
S/4 HANA	QOIK900407	NOTE-00128-30x.SAR	

Validity

SAP Release	From SP	To SP	In SP Shipment
ECC600	BCS 3.0 CSP004	BCS 3.0 CSP004	BCS 3.0 CSP005
S/4 HANA	BCS 3.0 CSP003	BCS 3.0 CSP003	BCS 3.0 CSP004