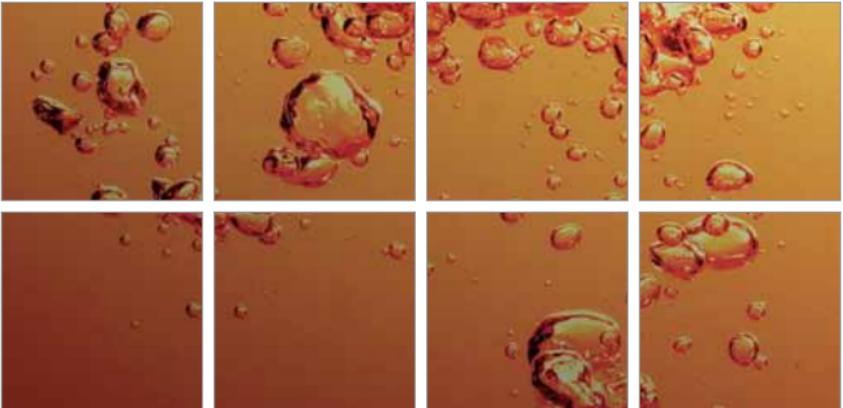


Quantity Conversion with OpenTAS[®] QCM

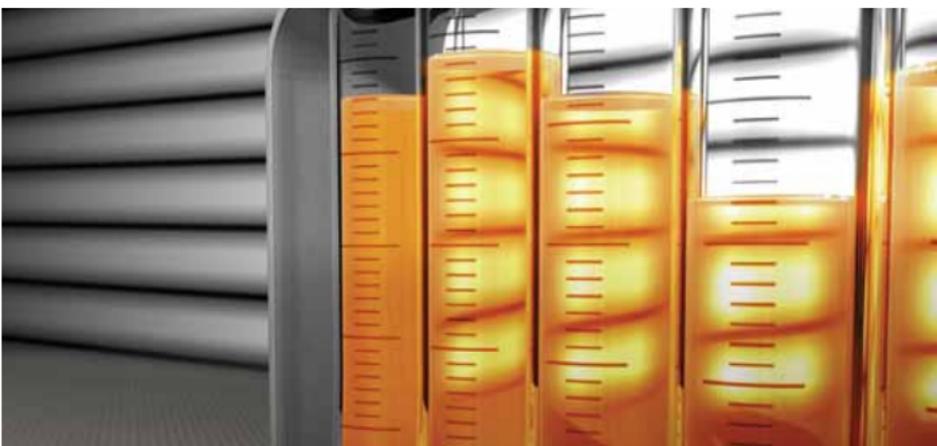
▪ Reliable, precise and cost-effective





OpenTAS QCM at a glance

- Rapid implementation
- Low rollout costs
- Low maintenance costs
- Extremely short rollout duration
- Rapid ROI
- Reliable – in use at many companies
- All-round compatibility
- Continuously updated
- 24/7 support
- Flexible deployment
(a single system for accounting, terminal management, administration and automation systems etc.)
- Optimized for SAP
- Deployable worldwide





Quantity Conversion

Every oil logistics expert knows the problem: liters needs to be converted to kilograms for goods movements – and especially during loading. The reference used here is the standard temperature of 15 °C.

Physical background

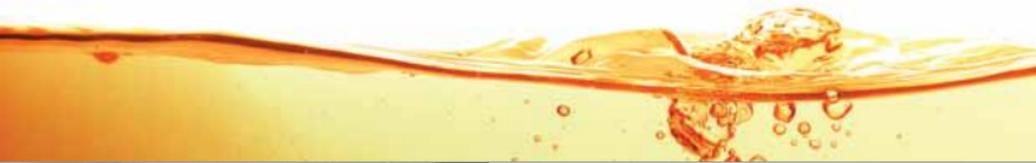
The weight of a substance is derived from its specific weight per unit of volume. This is termed its density. Since most substances change their volume in relation to temperature, density is always given relative to a specific temperature. Normally, this is 15 degrees Celsius, 20 degrees Celsius or 60 degrees Fahrenheit.

Obtaining accurate results from quantity conversion is crucially important for oil companies because conversion supplies input values for many other processes, such as settlement, quantity planning and tax processing. Outdated or imprecise routines can lead to errors, which then „snowball“ in downstream processing and become very costly.

Accordingly, precision in quantity conversion is all-important. To obtain this kind of precision, the solution deployed should consider both international standards and any relevant national regulations, needs to remain continuously up-to-date, and must offer a level of reliability that matches its accuracy. The solution must also be tightly integrated with the work of the ERP system.

The solution: OpenTAS QCM

OpenTAS QCM (Quantity Conversion Module) from Implico offers a proven, precise and extremely flexible set of functions for quantity conversion. This standardized solution is highly cost-effective in terms of both procurement and maintenance. Accessed via RFC (Remote Function Call), OpenTAS QCM works as an integral part of ERP/SAP systems and industry solutions such as SAP IS Oil, SAP SDM (Secondary Distribution Management) and SAP RFNO (Retail Fuel Network Operations).



Advantages of OpenTAS QCM

Proven

Numerous global petroleum companies have utilized OpenTAS QCM functionality for over ten years now. The conversion module has proven its reliability and stability in 24/7 operation.

Best cost efficiency

Open OpenTAS QCM is an extremely cost-effective solution. Implementation is rapid, simple and thus low-cost, and maintenance costs for day-to-day operations are negligible. Whatever the size of the petroleum company, flexible pricing models (based on product quantity handled) make OpenTAS QCM into an unbeatably cost-effective solution for quantity conversion

Technology

Straightforward implementation

The approach used to embed the standard API (ASTM D 1250-80) implementation routines uses an RFC server. This server utilizes the standard API functions to calculate the volume correction factor and also implements an alternate volume correction factor calculation from the Manual of Petroleum Measurement Standards. The function is called „function modules over RFC“ by SAP.

Perfect integration with ERP/SAP

Generally, ERP systems such as SAP are not equipped with internal quantity conversion functions. SAP offers QCI, the Quantity Conversion Interface, for integrating an appropriate, specialized conversion program into the system – e.g. into IS Oil, for example.





Precise

Quantity conversion is based on formulas, tables and formulations. OpenTAS QCM supports globally recognized standards such as ASTM and API.

Up-to-date

OpenTAS QCM keeps your quantity conversion process up-to-date. Our maintenance contract includes continuous monitoring of currency as well as timely updates – should changes be made to industry standards such as ASTM or to applicable legal frameworks.

Flexible

The quantity conversion solution OpenTAS QCM can be deployed not only within an OpenTAS system but also as a stand-alone system accessed over RFC. This latter option can be used together with SAP ERP, IS Oil or SAP SDM, for example.

Versatile

OpenTAS QCM supports petroleum groups A to D, based on ASTM D 1250-04 categorization.

ASTM International

ASTM International is an international standards organization, headquartered in West Conshohocken, USA. Organization members include manufacturers, users and governments from more than 100 countries. Outside the publicly funded sector, the application of ASTM standards is voluntary in the US.

API gravity

The API (American Petroleum Institute) gravity is a unit of density for petroleum liquids. It is applied internationally as a quality index for petroleum. The API gravity is derived from the relative density of the liquid at 15 °C.

$$\text{API gravity} = \frac{141.5}{\rho_{\text{rel}}} - 131.5$$



About Implico

The Implico Group optimizes logistics and business processes for oil and gas downstream companies. The international consulting and software company with its headquarters in Hamburg, Germany, has subsidiaries in Malaysia, Romania and the USA. Founded in 1983, the company today employs around 200 staff.

Implico provides consulting services, data services and software solutions for the entire supply chain – from forecasting, order entry, dispatching and tour optimization to data collation and invoicing. Leading oil and gas companies all over the world trust in Implico's industry expertise and high-performance IT solutions including OpenTAS®, SAP® SDM, SAP® RFNO and iGOS.

Implico is a Microsoft Gold Partner, a Software Development Partner of SAP and a member of the Oracle PartnerNetwork. The company has been recognized for its products and services on numerous occasions, e.g. for Supply Chain Management Software and as Oil & Gas Logistics Company of the Year 2015.



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