WELLSHARE

DATA SHARING FOR OIL AND GAS WELLS

Oil and gas production is increasingly a collaborative effort among groups of otherwise competing companies. In response, KBC worked with leading oil and gas corporations to develop WellShare™ cloud-based data sharing service. Now companies can receive a data feed for the wells in which they have an ownership interest and are managed or operated by their partners.

	COMPANY TYPE	COLLABORATION FORM	BENEFITS
BENEFITS FOR THE OPERATING COMPANY:	Majority owner of JV, legal operator	Shares data with minority partners	• Reduces cost of supporting JV reporting obligations • Reduces security vulnerability with single data pipeline to all partners • Avoids investment in in-house systems
BENEFITS FOR THE NON-OPERATING COMPANY:	Minority owner of JV, non-operator	Receives data from legal operator	• Accounts daily for all production (operated and allocated) • Reconciles actual production vs nominations
	Majority owner, contracted-out operation	Receives data from contract operator	• Optimizes operating conditions in real-time • Accounts daily for all production (operated and allocated) • Reconciles actual production vs nominations
	Majority owner, contracted-out IT support from nearby operating company	Receives data from nearby operator	• Reduces cost of building dedicated communications infrastructure • Reduces IT support cost

Without WellShare service, non-operating companies find that well operators have key operating data locked inside their information systems, limiting the non-operating partner's ability to optimize production and efficiently respond to outages.

A company using WellShare service can easily integrate data from partners with data from the wells that they operate themselves to get a complete picture of overall production.

The well operator securely posts well production data in real-time to a database at the KBC Secure Data Center, according to its own IT security policy.

Authorized non-operating partners can then access the data through a set of secure web pages, and may even have the data sent directly to a database on their own network depending on their preferences and access rights.

Field data collection
Real-time well production data is typically available from many diverse electronic sources, such as telemetry devices, control systems and realtime databases, but without WellShare sharing service access to collected data is optimized for the operating company's benefit, not the partner's. The WellShare database accepts data at the convenience of the owner and delivers it in the format required by the non-operating partner.
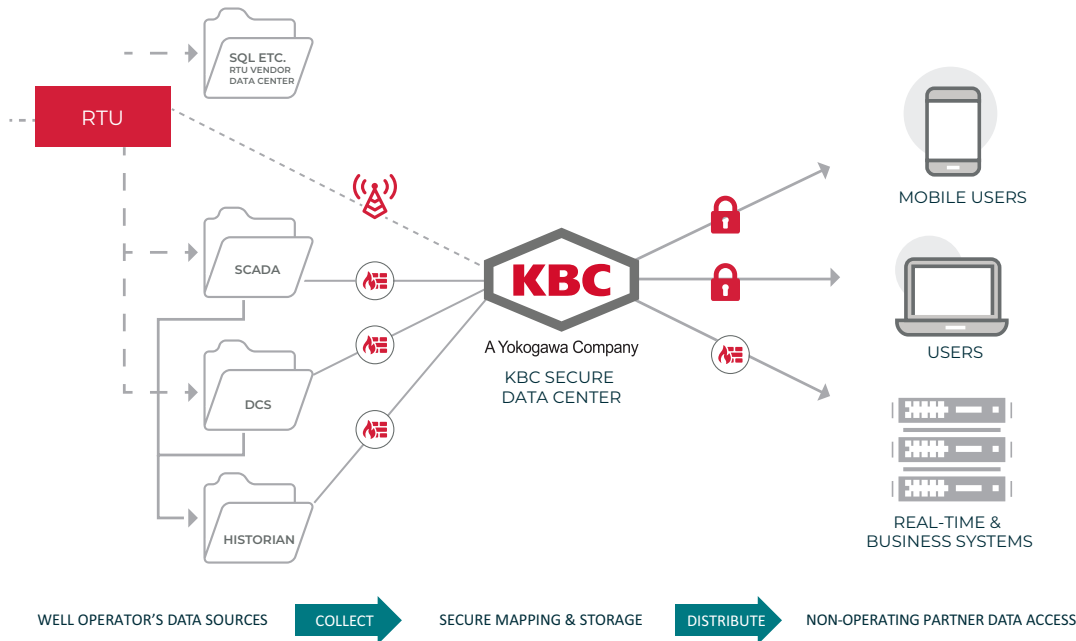
Data communication
Data from each well operator is typically available at different update frequencies across various communication media such as satellite once a day, across a cellular network, or over a standard telephone line every few hours. Even if the data is collected in real-time by SCADA or DCS across a wide area network, without Well*Share it may still only be made available to partners in a weekly report. Well*Share can securely and reliably accept data at any frequency across any connection.

Secure user access
The WellShare data sharing service allows users to access data by one of two methods: a secure WellShare web application provided by KBC and accessible from any web browser or by direct data transfer to the partner's own database.

For the WellShare web application, KBC provides each user a secure ID and password and so they can login from any internet-connected device. Access privileges control the user's ability to view displays and download history data for analysis. For direct data transfer, the WellShare service exports data to a real-time or relational database on the partner's network. It does this by using standard interfaces and appropriate communication channels or a secure drop box, according to the partner's IT standards. With users from over 300 major corporations, the WellShare data service is accepted as the de facto standard for their operations.

WELL OPERATOR'S DATA SOURCES **COLLECT** SECURE MAPPING & STORAGE **DISTRIBUTE** NON-OPERATING PARTNER DATA ACCESS

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