

## B2|WITSML Integration Module

### Functional description

The **B2|WITSML Integration Module (IM)** supports connection to WITSML web services, regularly used for transfer of measurement data in real-time in the oil and gas industry.

The primary functionality of the **B2|WITSML IM** is to:

- Connect to a WITSML web service and obtain lists of all wells and wellbores
- For each well that has been defined as active (in the **B2|Meta Model** project), collect real time data from the web service and store it in the **B2|Meta Model**
- Monitor the WITSML server for changes in the well and wellbore lists
- The B2|WITSML IM can support both a subscription-based and pull-mechanisms for data updating. Normally, a pull-scheme is preferred by service providers.

### Supported data types

The **B2|WITSML IM** supports all time-based data that are published by the WITSML server (depending on field, provider and similar).

All of the time-based data are read and stored in the **B2|Meta Model**. The **B2|WITSML IM** has no notion about the meaning of the data.

The data consists of

- Tag (called mnemonic in WITSML language)
- Value
- Unit

### Supported web services

The **B2|WITSML IM** supports the following WITSML web services:

Web service	Comments	Read	Write
Schlumberger InterAct WITSML web service	WITSML 1.3	Y	N
Baker Hughes Inteq WITSML web service	WITSML 1.3	Y	N
Kongsberg SiteCom WITSML web service	WITSML 1.3	Y	N
Halliburton Insite WITSML web service	WITSML 1.3	Y	N
OilTeams WITSML web service	WITSML 1.3.1	Y	N

### Released versions

The following table lists the released versions of **B2|WITSML IM**:

Version	Supported B2 Collaboration Server	Supported WITSML version
V4.0	V4.0	WITSML 1.2.0, 1.3.1, 1.3.2
V4.1	V4.0, V4.1	WITSML 1.2.0, 1.3.1, 1.3.2

### Technical requirements

Operating system: Windows Server 2003, 2008 x64 or Linux (RHEL) 64-bit

Software requirements: Requires Oracle Java

Other requirements:

- Requires a running instance of **B2|Collaboration and Integration Server**.
- Requires user name and password for subscription to the WITSML web service

## **B2 infrastructure**

The **B2|Integration Modules** are components in the B2 suite. The B2 suite also contains the required server and integration components, such as the **B2|Collaboration and Integration Server**, **B2|Meta Model** and **B2|Web Service**.

This common infrastructure serves end-user application clients such as the **B2|Integrated Well Planning**, **B2|Integrated Operations**, **B2|Virtual View** and **B2|Virtual Arena**.