

B2|Web Service

B2|Web Service is a software module in the B2 platform supporting requirements for data transfer to external systems using standardized protocols and messages.

The B2 platform also consists of the required server and integration components, such as **B2|Collaboration and Integration Server** and **B2|Integration Modules**.

The **B2|Web Service** is a client to the **B2|Collaboration and Integration Server**, and every web service's user can be configured to query data from n different B2 projects. This makes it possible to deliver different data, from different domains (geology / geophysics, drilling and well, real time measurements) for each user.

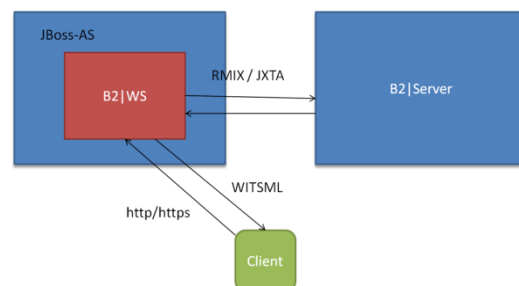
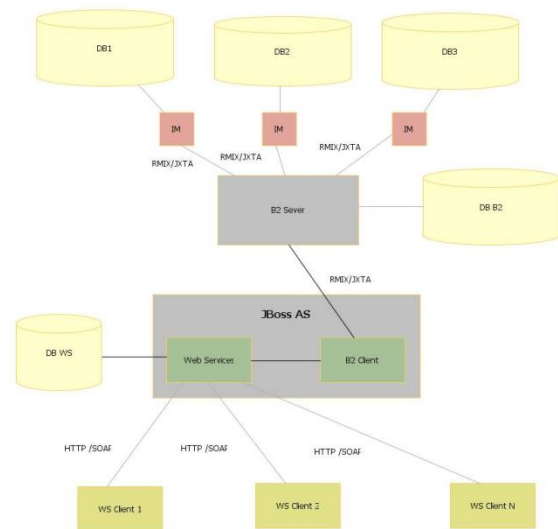
The **B2|Web Service** always maintains an open connection with the **B2|Collaboration and Integration Server**, and will receive notifications about changes in the data from all the subscribed B2 projects. This in turn allows the web service to notify its clients about these changes (using SOAP).

The **B2|Web Service** runs on JBoss Application Server 5.1.0GA (version 1.4), accepts requests via HTTP/Basic Authentication or via HTTPS/Basic Authentication if required.

Functional description

The main functionality of **B2|Web Service** is to:

- Connect to the **B2|Collaboration and Integration Server**
- Accept WITSML queries
- Deliver data, present in the different domains, in WITSML format using appropriate WITSML objects (version 1.4)



Supported data types

In version 1.4 the following WITSML objects have been implemented

WITSML object	Master domain	Comments
Well	DBR, EDM	
Wellbore	DBR, EDM	
Trajectory	DBR, EDM	
WbGeometry	DBR, EDM	
DrillReport	DBR	

Architecture

B2|Web Service and **B2|Integration Modules** are usually deployed close to B2 servers, but can also be distributed on servers in the network or in the network DMZ for connection to outside partners.

Clients are usually installed on end-user workstations or laptops, although it is possible to have centralized access through terminal server such as Citrix or similar.

Relevant work flows

- Configuration of external systems using during drilling or operations
- QA & QC of well planning data
- Collaboration with external partners and subcontracts

Released versions

The following table lists the released versions of **B2|Web Service**:

Version	Supported B2 Collaboration and Integration Server	Comments
V1.0	V3.2 and v4.0	
V1.4	V3.2, v4.0, v4.1	

Technical requirements

Operating system: Microsoft Windows Server 2003 (64-bit) or 2008 (64-bit)

Software requirements: Requires Oracle Java 1.6, JBoss AS 5.1.0GA

Other requirements:

- Requires a running instance of **B2|Collaboration and Integration Server**.

B2 infrastructure

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

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**.

Contact information

Visual Solutions AS (worldwide HQ)
Møllendalsveien 1A, 5009 Bergen, Norway
Tel.: +47 5532 0000
Email: info@bbvisuals.no
Web: <http://www.bbvisuals.no>

BB Visual Solutions Inc. (US)
16111 Cairway, Suite 150, Houston, TX 77084, US
Tel.: +1 832-296-4690
Email: info@bbvisuals.com
Web: <http://www.bbvisuals.com>