Smith Int'l: WITSML Store/Services

Smith WITSML Store/Services (Smith International)

Product Description

Smith WITSML Store/Services

Version: V 1.0

WITSML Object Specifications Version: V1.2 WITSML API Specification Version: V1.2

The Smith WITSML Store/Services provides seamless flow of well site data between operators and service companies to speed and enhance decision-making. It provides secure data access, data storage and data archival capabilities.



Smith International, Inc. is a leading worldwide supplier of premium products and services to the oil and gas exploration and production industry, the petrochemical industry and other industrial markets operating through four business units, M-I SWACO, Smith Technologies, Smith Services and Wilson. The Company provides a comprehensive line of technologically-advanced products and engineering services, including drilling and completion fluid systems, solids-control equipment, wastemanagement services, production chemicals, three-cone and fixed cutter drill bits, turbines, fishing services, drilling tools, underreamers, casing exit and multilateral systems, packers and line hangers. The Company also offers supply-chain management solutions through extensive North American branch network providing pipe, valves, fittings, mill, safety and other maintenance products.

Smith Technologies is committed to the WITSML standards and has been an active member of the WITSML. Smith continues to develop real-time simulation and optimization programs for use with WITSML protocols.

WITSML Contact Persons: David Moran, Yashodhan Gidh

Availability

From:

To:

Submitter Information

David Moran, Yashodhan Gidh

US +1 2812335387 Call, US +1 2812335235 Call 16740 Hardy Street, P.O.Box 60068, Houston, TX 77205-0068 dmoran@smith.com, ygidh@smith.com 10/24/2005

WITSML Function Coverage	
	Check all that apply. Explain limitations and/or special circumstances in the Comments area.
	Notes:
	Functional coverage is organized according to five kinds of product functionality with respect to the WITSML
	Standards: two kinds of client functions and three kinds of server functions.
	A product may exhibit multiple kinds of functionality.
	 The terms client and server are used here exclusively with respect to the WITSML Server API interfaces. Clients issue requests to servers. Servers receive and respond to requests from clients.
	 Behaviors for products that do not use the WITSML Server API are classified in an analogous manner.
	The five product classifications of WITSML functional coverage are:
	 Client Products WITSML Producer Client a product that generates or otherwise obtains data that is formulated as WITSML object instances and sent to a WITSML Server to be incorporated in that server's data population. Examples of such products include products that pick up real-time data from sensor devices, format it, and send it to a server; and products that extract data from data stores, format it, and send it to a server. WITSML Consumer Client a product that issues requests for data as queries of subscriptions to a WITSML Server and then receives data as query responses or subscription publications. Examples of such products include products that acquire data from a server, possibly reformat it, and delivery it to an application program or viewer utility. Products the exhibit combined Producer and Consume Client functions may be application programs that operate directly on a WITSML Server, such as a mudlogging application or a pore pressure analysis application. Server Products WITSML Receiving Server a product that performs WITSML Server functions in general and, in particular, acquires data from external sources. Data acquisition may be through WITSML API interfaces or other mechanisms. WITSML Delivering Server a product that performs WITSML Server functions in general and, in particular, delivers data to external destinations. Data delivery may be through WITSML API interfaces or other mechanisms. WITSML Managing Server a product that performs WITSML Server functions
	in general and, in particular, supports requests from authorized client applications to augment (extend), modify, or delete (part or all) WITSML object instances. 3&4. The general understanding and expectation is that a product characterized as a WITSML Server supports both Receiving and Delivering Server functionality. 3&4&5. The addition of Managing Server functionality allows a WITSML Server product to do more than store and forward data, such as supporting data quality management client applications that help ensure the integrity and quality of data content in a Server data population.
	 General Functions 6. Virtually all products associated with the WITSML Standards will issue and/or process WITSML Server General Functions to determine the capabilities and version of a server product.
1. WITSML Producer Client	A product that (generates and) sends WITSML object instances to a destination process: 1a [_X_] Sends to a WITSML Server using AddToStore interface 1b [] Otherwise

2. WITSML Consumer Client	A product that requests and receives WITSML data from a source process: 2a [_X_] Queries a WITSML Server using GetFromStore interface 2b [] Subscribes to a WITSML Server using Publish interface 2c [] Otherwise
3. WITSML Receiving Server	A product that performs the WITSML Server interfaces and receives data from source processes: 3a [] Receives WITSML object instances via AddToStore interface 3b [] Otherwise receives WITSML object instances 3c [] Receives non-WITSML form data treated as if it were WITSML object instances or a virtual equivalent
4. WITSML Delivering Server	A product that performs the WITSML Server interfaces and delivers data to destination processes: 4a [] Delivers WITSML data in response to queries via GetFromStore interface 4b [] Publishes WITSML data in response to subscriptions via the Publish interface 4c [] Otherwise delivers WITSML data 4d [] Delivers non-WITSML form data derived from WITSML object instances or a virtual equivalent
5. WITSML Managing Server	A product that performs the WITSML Server interfaces and manages (augments, changes, deletes portions, or deletes entirely) WITSML object instances or a virtual equivalent: 5a [] Processes modification requests via AddToStore,
6. WITSML General Functions	A product that issues general WITSML Server interface requests to a WITSML Server: 6a [_X_] Issues GetVersion and/or GetCapabilities A product that performs the general WITSML Server interfaces: 6b [_X_] Processes GetVersion and/or GetCapabilities
WITSML Object Coverage	Mark D for Deliver and R for Receive , as applicable. If all functions do not apply, note either functions supported or functions not-supported, e.g. supported by 1a. Explain other limitations or special cases in the Comments area.
	[_RD_] Realtime
	[_RD_] Well
	[_RD_] Wellbore
	[_RD_] Log & WellLog
	[_RD_] Trajectory & Traj. Stn.
	[_RD_] Message
	[_RD_] Mud Log
	[_RD_] Rig
	[_RD_] Survey Program
	[_RD_] Target
	[_No_] rarget
	[_RD_] Fluids Report

	[_RD_] Formation Marker
	[_RD_] Conventional Core
	[_RD_] Sidewall Core
	[_RD_] Cement Job
	[_RD_] Tubular
	[_RD_] BHA Run
	[_RD_] Other, specify: wellboreGeometry
Comments:	Fully tested with Smith Product Offerings.
Last Update	10/24/2005 by Yashodhan Gidh