Geologix: GEO Software Suite

GEO SOftware Suite (SDC Geologix)	
Product Description	GEO Software Suite Version 5.70.xx WITSML Object Specifications Version V1.2 GEO Software is a tightly integrated suite of applications that serve the recognized needs of wellsite and operations geoscientists for the collation, presentation, interpretation and sharing of well log data and information. Consisting of well log authoring tools (GEO [™] , GEOLite [™] and GEOLogger [™]) each built upon the unique GEO dynamic document structure, the GEO Software Suite is augmented by functionality to simplify the sharing and collaboration of well log data, particularly with its now widely adopted GEOe-View [™] interactive log viewing and printing software.
	The GEO applications are already capable of both importing and
	exporting data in WITSML format, and were independently reported to
	be the first software of its type on general release with this functionality.
	One of the typical uses of GEO is to create a Mudlog or Lithlog display
	by automatically loading sensor data through WITSML Log object(s)
	whilst allowing the user to speedily update the plot with both lithology
	and descriptive information. The facility to transmit such data as a
	WITSML Mudlog object means that it can be delivered to the right
	systems and the right people at the right time. Moreover, Geologix has
	demonstrated the use of Mudlog Object in not only recreating a mudlog
	plot but also in the generation of various mudlog reports.
S D C Geologix	SDC Geologix is an independent software development company serving the oil & gas industry worldwide, from bases in the UK, USA and Indonesia since 1993. As a long-serving member of POSC, SDC Geologix has actively participated in the evolution of WITSML and embraced this data-transfer standard within the continuous development of all its software products. For more information about how WITSML is being deployed within the GEO Software applications, please contact SDC Geologix via their website at http://www.geologix.com/.
	WITSML Activities: Steering/Technical committee involvement with specific focus on Mudlog and other relevant objects. Contact Persons: Samit Sengupta (steering committee), Edward
Availability	Clements (technical committee)
-	From August 2005
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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 reput subjibit multiple binds of functionality.
	 A product may exhibit multiple kinds of functionality. The terms <i>client</i> and <i>server</i> 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 electifications of WITCML functional coverage area
	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. 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 that acquire data from a server, possibly reformat it, and delivery it to an application program or viewer utility. 2. 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.
	 3. 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. 4. 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. 5. WITSML API interfaces or other mechanisms. 5. WITSML API interfaces or other mechanisms. 5. 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&4485. 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, UpdateInStore, DeleteFromStore interfaces 5b [] Otherwise processes modification requests
6. WITSML General Functions	A product that issues general WITSML Server interface requests to a WITSML Server: Server: 6a [_X_] Issues GetVersion and/or GetCapabilities A product that performs the general WITSML Server interfaces: 6b [] 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.
	[] Realtime
	[] Well
	[] Wellbore
	[D/R] Log & WellLog
	[] Trajectory & Traj. Stn.
	[] Message
	[D/R] Mud Log
	[] Rig
	[] Survey Program
	[] Target
	[] Fluids Report
	[] Operations Report

	[] Risk
	[] Formation Marker
	[] Conventional Core
	[] Sidewall Core
	[] Cement Job
	[] Tubular
	[] BHA Run
	[] Other, specify:
Comments:	None.
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