# Petrolink: Saudi Aramco DRTDH

| Saudi Aramco DRTDH (Petrolink) | |
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| **Product Description** | Saudi Aramco DRTDH<br>Version 1.0<br>WITSML Object Specifications Version 1.3.1.1<br>WITSML API Specification Version 1.3.1<br>Drilling Real-Time Data-Hub is a WITSML Server and Client solution built and customized for Saudi Aramco Drilling Operations to serve as the corporate WITSML data hub. It retrieves data service company WITSML data stores, normalizes the data and provides the data via the WITMSL Store interface. |
|  | Petrolink Services, Inc.<br>Petrolink is a well established information and communications technology service company specializing in the oil and gas exploration and production sector.<br><br>Petrolink has provided IT and communications solutions to oil and gas operators whether super majors or smaller independent operators for more than fifteen years. Petrolink has adapted and evolved its solutions and services to suite the needs of its customers in this technology driven services sector.<br><br>Petrolink has a highly skilled and experienced team of people recruited from the oil and gas, software development and information and communications technology industries to provide tailored solutions to the needs of our growing client base.<br><br>Petrolink has become the market leader in the secure transmission and distribution of geotechnical and associated data throughout the world. Petrolink has strategically placed its personnel and offices across the globe to provide the best possible level of support to our clients.<br><br>Contact Person: Ramon Rodriguez |
| **Availability** | From December 2008 |
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| **WITSML Function Coverage** | Check all that apply. Explain limitations and/or special circumstances in the Comments area.<br><br>Notes:<br><br>Functional coverage is organized according to five kinds of product functionality with respect to the WITSML<br><br>Standards: two kinds of client functions and three kinds of server functions.<br><br>• A product may exhibit multiple kinds of functionality.<br>• 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.<br>• Behaviors for products that do not use the WITSML Server API are classified in an analogous manner.<br><br>The five product classifications of WITSML functional coverage are:<br><br>• Client Products --<br>1. **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.<br>2. **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.<br>1&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.<br>• Server Products --<br>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.<br>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.<br>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.<br>3&4. The general understanding and expectation is that a product characterized as a WITSML Server supports **both Receiving and Delivering Server** functionality.<br>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.<br>• General Functions --<br>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:<br>1a [___] Sends to a WITSML Server using AddToStore interface<br>1b [___] Otherwise |

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| 2. **WITSML Consumer Client** | A product that requests and receives WITSML data from a source process:<br>2a [___] Queries a WITSML Server using GetFromStore interface<br>2b [___] Subscribes to a WITSML Server using Publish interface<br>2c [___] Otherwise |
| 3. **WITSML Receiving Server** | A product that performs the WITSML Server interfaces and receives data from source processes:<br>3a [_X_] Receives WITSML object instances via AddToStore interface<br>3b [_X_] Otherwise receives WITSML object instances<br>3c [_X_] 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:<br>4a [_X_] Delivers WITSML data in response to queries via GetFromStore interface<br>4b [___] Publishes WITSML data in response to subscriptions via the Publish interface<br>4c [_X_] Otherwise delivers WITSML data<br>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:<br>5a [_X_] Processes modification requests via AddToStore, UpdateInStore, DeleteFromStore interfaces<br>5b [___] Otherwise processes modification requests |
| 6. **WITSML General Functions** | A product that issues general WITSML Server interface requests to a WITSML Server:<br>6a [_X_] Issues GetVersion and/or GetCapabilities<br>A product that performs the general WITSML Server interfaces:<br>6b [_X_] Processes GetVersion and/or GetCapabilities |
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| **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. |
| | [_DR_] Realtime |
| | [_DR_] Well |
| | [_DR_] Wellbore |
| | [_DR_] Log & WellLog |
| | [_DR_] Trajectory & Traj. Stn. |
| | [___] Message |
| | [_DR_] Mud Log |
| | [___] Rig |
| | [___] Survey Program |
| | [___] Target |
| | [___] Fluids Report |
| | [___] Operations Report |
| | [___] Risk |

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| | [___] Formation Marker |
| | [___] Conventional Core |
| | [___] Sidewall Core |
| | [___] Cement Job |
| | [___] Tubular |
| | [___] BHA Run |
| | [___] WB Geometry |
| | [___] Other, specify: _____ |
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| **Comments**: | None. |
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| **Last Update** | December 18, 2008 by Ramon Rodriguez |