

Petrolink: PowerView

| PowerView (Petrolink) | |
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| Product Description | <p>PowerView</p> <p>Version 1.0</p> <p>WITSML Object Specifications Version 1.2.0 and 1.3.1.1</p> <p>WITSML API Specification Version 1.2.0 and 1.3.1</p> <p>PowerSwitch is the visualization server that provides the real-time displays of the data, including log views, azimuthal display, and digital gauges with alarms.</p> |
|  | <p>Petrolink Services, Inc.</p> <p>Power products from Petrolink have been developed to allow the flow of any type, WITSML or non-WITSML, of Wellsite technical data in a secure and encrypted manner.</p> <p>Contact Person: Lee Geiser (Steering Committee)</p> |
| Availability | From January 2008 |
| Submitter Information | <p>Lee Geiser</p> <p>Telephone +1 713 686 3443</p> <p>2916 West T. C. Jester Blvd., Suite 106, Houston, TX 77018 USA</p> <p>lee.geiser@petrolink.net</p> <p>November 13, 2007</p> |

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 --
 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.
 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.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.
- Server Products --
 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 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 Sends to a WITSML Server using AddToStore interface
1b Otherwise

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

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| | <input type="checkbox"/> Formation Marker |
| | <input type="checkbox"/> Conventional Core |
| | <input type="checkbox"/> Sidewall Core |
| | <input type="checkbox"/> Cement Job |
| | <input type="checkbox"/> Tubular |
| | <input type="checkbox"/> BHA Run |
| | <input type="checkbox"/> WB Geometry |
| | <input type="checkbox"/> Other, specify: _____ |
| | _____ |
| Comments: | None. |
| | _____ |
| Last Update | November 13, 2007 by Lee Geiser |