<table>
<thead>
<tr>
<th>Q 1</th>
<th>Product Name, Version, Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>LiveLog/WITSML</td>
</tr>
<tr>
<td>Q 2</td>
<td>Vendor Name, Logo, Description</td>
</tr>
<tr>
<td>A2</td>
<td>Digital Drilling Data Systems, LLC – Providers of MWD/LWD Logging, Remote Operations, Real-Time Data Delivery, Monitoring and Integration</td>
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<tr>
<td>Q 3</td>
<td>Product Availability (from, to)</td>
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<td>A3</td>
<td>Continuous</td>
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<tr>
<td>Q 4</td>
<td>Form Submitter Information</td>
</tr>
<tr>
<td>A4</td>
<td>Nils Benson, VP Software</td>
</tr>
<tr>
<td>Q 5</td>
<td>WITSML Functional Coverage. This is described in light of definitions provided directly on the form of functions of Client products as producers and/or consumers, of Server products as Receiving, Delivering, and/or Managing Servers. Functionality is summarized by checking which of sixteen overall functions are exhibited by the product.</td>
</tr>
<tr>
<td>A5</td>
<td>Check all that apply. Explain limitations and/or special circumstances in the Comments area.</td>
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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 deliver it to an application program or viewer utility.

1&2. Products that exhibit combined Producer and Consumer 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

2. **WITSML Consumer Client** A product that requests and receives WITSML data from a source process:

   2a [___] 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 [X] Otherwise receives WITSML object instances
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:

4a [X] Delivers WITSML data in response to queries via GetFromStore interface
4b [___] Publishes WITSML data in response to subscriptions via the Publish interface
4c [X] Otherwise delivers WITSML data
4d [X] 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 [X] Otherwise processes modification requests

6. WITSML General Functions A product that issues general WITSML Server interface requests to a WITSML Server:

6a [___] Issues GetVersion and/or GetCapabilities
A product that performs the general WITSML Server interfaces:
6b [X] Processes GetVersion and/or GetCapabilities

WITSML Data Coverage. This is described by indicating for each of twenty types of data whether the data is Delivered and/or Received by the product. Provision for additional data type support is given. Special limitations between Functions and Data must be explained.

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
[D] Well
[D] Wellbore
[D] Log & WellLog
[D] Trajectory & Traj. Stn.
[___] Message
[D] Mud Log
[___] Rig
[___] Survey Program
<table>
<thead>
<tr>
<th>Q 7</th>
<th>Additional Information (optional)</th>
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<tbody>
<tr>
<td>A7</td>
<td>LiveLog/WITSML is a WITSML connector for the LiveLog Real-Time Service. It allows WITSML compliant client applications to access data stored in LiveLog.</td>
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<tr>
<th>Q 8</th>
<th>Form Submission Date.</th>
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<tbody>
<tr>
<td>A8</td>
<td>6/1/2017</td>
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