

Introduction

My name is Shari Benko, I am with the Human Systems Engineering Team at General Dynamics Mission Systems. I am going to have some general questions for you to help us understand your role, then we will discuss specific topics regarding the structure of data in the Data Lake.

The data you will see in the Data Lake is example data only and not mission operational data.

At some points you may not know how to answer my questions, and that is OK. This is not meant to test your knowledge, but to gain insights on how we can better design our tool. Feel free to tell me you don't know the answer or you just don't know how to complete the task that I ask you to attempt to complete.

I am not a program manager or engineer so I may not be able to answer your questions during this session either, if that happens, I will make a note of the question and provide you with a follow up answer,

I would like to record this session for note taking purposes only, are you comfortable with that?

<BEGIN RECORDING>

What is your Title?

What is your current role (or former role) as it relates to this program?

How many years of experience do you (or did you) have in this role?

Do you support operations directly? Or work with operational data?

1. Role Based Questions

On a Scale of 1-5 (1 being Not Familiar, and 5 being Very Familiar) how familiar are you with the concept of a Data Lake or Data Lake Query Tool?

1 2 3 4 5

What do you think the Data Lake Query Tool is meant to be used for?

2. Scenarios

<ADVANCE TO SLIDE 3>

Now we are going to talk about scenarios that might occur today. I am going to ask you to rank each one in terms of how often you think they might occur. Feel free to tell me that your experience does not give you the ability to rank these scenarios, in fact let's give those a zero if you don't have enough experience to rank it.

Scenario 1 1 2 3 4 5	Scenario 5 1 2 3 4 5
Scenario 2 1 2 3 4 5	Scenario 6 1 2 3 4 5
Scenario 3 1 2 3 4 5	Scenario 7 1 2 3 4 5
Scenario 4 1 2 3 4 5	

1. UI: General Impressions

<SHARE THE UI>

What are your first impressions of the user interface?

Has seeing the user interface changed your thoughts on what the tool is meant to be used for?

The Data Lake API and Query Tool provide comprehensive access to enterprise-wide data, enabling seamless querying, visualization, and cross-system analysis through a single unified platform. This integrated solution maintains proper releasability controls while empowering users to uncover valuable insights across multiple systems simultaneously, eliminating data silos.

Does my description match your expectations? What was unexpected?

2. UI: Data Catalog

From the landing page, where do you expect to find information on what data products are available to you?

What do you think we mean by data product based on what you see here?

A Data Product is a specific type of data delivered by a data producer. A data producer for example might be Example 1, Example 2, Example 3, etc.

Does my description match your expectations? What differed?

What information is the most useful to you regarding the data products you see here?

What information do you think is missing from this display regarding data products?

3. UI: Querying

What kinds of queries might you expect an operator to conduct based on the data available and query functionality you see here?

How would you expect an operator to go about conducting a query on a data product that you have available to you here?

How would you expect a user to use a query in support of their mission goals?

On a scale from 1 to 5, rank your familiarity with SQL, 1 being not at all familiar, 5 being extremely familiar.

Follow on if participant answered 1,2 or 3: If we provided only a SQL based interface for querying data in this tool, would that deter you from using this tool and why?

If we provided only a SQL based interface for querying data in this tool, would you anticipate operators having difficulties in querying data successfully?

4. UI: Data Visualizations

Advanced: Results & Charting

```
SELECT * FROM xxxxxxxx LIMIT 10000
```

```
SELECT * FROM xxxxxx WHERE std_timestamp >= '2018-07-17 00:00:00' AND std_timestamp <= '2018-07-18 23:59:59' AND uuid = '00000000-0000-0000-0000-000000000002' AND status = 'COMPLETE' AND statusreason = 'PRIORITY' LIMIT 10000
```

Now that you have seen a query on data using this interface how would you view the results in a different way other than the table view you currently see here?

<SHOW CHART VIEW>

What value do you think this view is providing you?

What steps might you take in this view to dig deeper into the data?

Thinking back to the data products we discussed earlier, are there specific visualizations of the data that are needed for specific data products?

5. Scenario: Ranking UI Effectiveness in terms of Scenarios

<SHOW SLIDE 4>

We are in the home stretch! I have one more task for you to complete before we are done here. It is a quick one I promise. Based on what you just saw, rank the following statements in terms of how useful the Data Lake Query Tool will be in addressing the following scenarios:

Scenario 1 1 2 3 4 5	Scenario 5 1 2 3 4 5
Scenario 2 1 2 3 4 5	Scenario 6 1 2 3 4 5
Scenario 3 1 2 3 4 5	Scenario 7 1 2 3 4 5
Scenario 4 1 2 3 4 5	
Are there other scenarios that you think the Data Lake API and Query Tool will be useful for?	