OIIE Pull Product Model Data

This Event is sending a query requesting model data from the manufacturer (or local product register) and expects a reply with the model data, including the data sheets in an agreed standard format.

Specific Data Content

The data included in the request is, at a minimum, composed of:

- The model details, such as model name, type of model etc., necessary to query the desired model

In addition, the following data can be sent:

- The indicator of the type of standard format, e.g. ISDD, the returned data should be.

Data Processing

This Event is querying model data and require that the recipient system processes the data received. The receiving system is expected to respond to the query by sending the model data including data sheets.

Expected Response

The receiving system is expected to send the reply, at a minimum, composed of:

- The model(s)

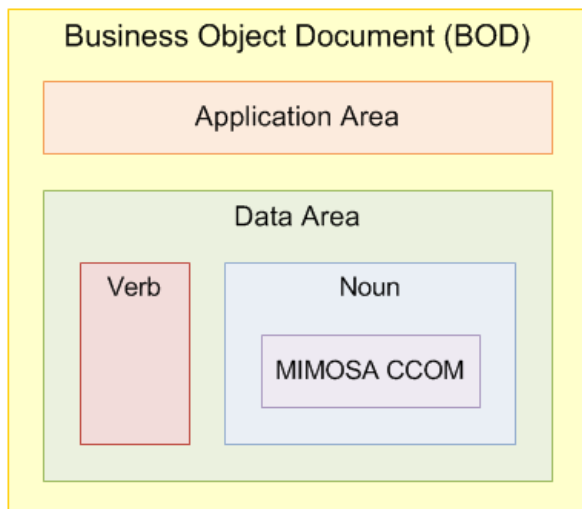- The datasheet for each model in a standard format (such as ISDDs)

NOTE   If a particular format where indicated in the request, e.g. ISDD, and it cannot be supplied, a ConfirmBOD indicating the error should be returned, instead of an empty response.

Reference Implementation

The query to request model data can be sent to the target system in many ways. Similarly, the response from the recipient system can be sent back to the source system in many ways. The following is the list of current reference implementation(s) available:

1. Using GetModelDatasheetDefinitions/ShowDatasheetDefinitions CCOM BOD

NOTE   Business Object Document (BOD) message structure is used to provide additional message concepts that encapsulate a MIMOSA CCOM payload. BODs indicate both behavior and structure for messages and the major components of a BOD are depicted below.

Business Object Document (BOD)

Example

An example of reference implementation of the pull request for information for models meeting requirements Event using GetModelDatasheetDefinitions CCOM BOD is provided below.

```xml
<?xml  version="1.0"?>
<GetModelDatasheetDefinitions languageCode="EN" releaseID="4.1.0"
  xmlns="http://www.mimosa.org/ccom4"
  xmlns:oa="http://www.openapplications.org/oagis/9"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <oa:ApplicationArea>
    <oa:Sender>
      <oa:LogicalID>fc3899f0-9703-0137-e25d-22000a6f90e2</oa:LogicalID>
    </oa:Sender>
    <oa:CreationDateTime>2019-07-16T13:21:00Z</oa:CreationDateTime>
    <oa:BODID>a28c4811-2a62-4eaa-8ab2-5372d744ed92</oa:BODID>
  </oa:ApplicationArea>
  <DataArea>
    <oa:Get>
      <oa:Expression>/*</oa:Expression>
    </oa:Get>
    <ModelDatasheetDefinitionsCriteria>
      <ModelShortName>YTA710</ModelShortName>
    </ModelDatasheetDefinitionsCriteria>
  </DataArea>
</GetModelDatasheetDefinitions>
```

An example of reference implementation of the response message using ShowDatasheetDefinitions CCOM BOD is provided below.

```xml
<?xml  version="1.0"?>
<ShowDatasheetsDefinitions languageCode="EN" releaseID="4.1.0"
  xmlns="http://www.mimosa.org/ccom4"
  xmlns:oa="http://www.openapplications.org/oagis/9"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <oa:ApplicationArea>
```

```xml
      <oa:Sender>
        <LogicalID>78fec220-8bfb-0137-32bf-22000b499058</LogicalID>
      </oa:Sender>
      <oa:CreationDateTime>2019-07-16T15:21:00Z</oa:CreationDateTime>
      <oa:BODID>8872be3e-84ab-47b1-85dc-8729e62e35f5</oa:BODID>
    </oa:ApplicationArea>
    <DataArea>
      <oa:Show/>
      <DatasheetsDefinitions>
        <DatasheetDefinition>
          <UUID>edd140b0-85d8-0137-32bf-22000b499058</UUID>
          <InfoSource>
            <UUID>15140710-f105-0136-05b6-22000a8abbb4</UUID>
            <ShortName>Yokogawa Reference Data Library</ShortName>
          </InfoSource>
          <EffectiveStatusType>
            <UUID>db4bf287-2374-4e9c-bd4b-fadaada24b99</UUID>
            <ShortName>Active</ShortName>
          </EffectiveStatusType>
          <ShortName>YTA-710 Model Datasheet Definition</ShortName>
          <Type>
            <UUID>c565d2e0-4183-0134-2e99-22000b1e87f7</UUID>
            <ShortName>ISDD</ShortName>
          </Type>
          <Parent>
            <UUID>1735e210-85b8-0137-32bf-22000b499058</UUID>
            <ShortName>ISA 20T2221 Rev 1 Device Specification</ShortName>
          </Parent>
          <Group>
            <UUID>e3decb80-8679-0137-32bf-22000b499058</UUID>
            <IDInInfoSource>e3decb80-8679-0137-32bf-22000b499058</IDInInfoSource>
            <InfoSource>
              <UUID>15140710-f105-0136-05b6-22000a8abbb4</UUID>
              <ShortName>Yokogawa Reference Data Library</ShortName>
            </InfoSource>
            <EffectiveStatusType>
              <UUID>db4bf287-2374-4e9c-bd4b-fadaada24b99</UUID>
              <ShortName>Active</ShortName>
            </EffectiveStatusType>
            <ShortName>Yokogawa YTA-710 properties</ShortName>
            <MinOccurs>1</MinOccurs>
            <MaxOccurs>1</MaxOccurs>
            <Order>1</Order>
            <PropertyDefinition>
              <UUID>0e070800-867a-0137-32bf-22000b499058</UUID>
              <EffectiveStatusType>
                <UUID>db4bf287-2374-4e9c-bd4b-fadaada24b99</UUID>
                <ShortName>Active</ShortName>
              </EffectiveStatusType>
              <ShortName>Avail nom power supply values - Yokogawa YTA 710</ShortName>
              <Type>
                <UUID>47b42840-8679-0137-32bf-22000b499058</UUID>
                <ShortName>Avail nom power supply values - Yokogawa YTA 710</ShortName>
              </Type>
              <Order>1</Order>
```

```
          </PropertyDefinition>
        </Group>
      </DatasheetDefinition>
    </DatasheetsDefinitions>
  </DataArea>
</ShowDatasheetsDefinitions>
```

NOTE   For versions of MIMOSA CCOM prior to 4.1, the types referring to 'Property' use the term 'Attribute' instead.

Version Applicability/Alignment

Events describe individual message exchanges between systems detailing data and processing requirements and, hence, they are aligned to specific versions of CCOM and/or other MIMOSA standards. For example, older versions of CCOM may not include the specific data elements required by newer Events, while older Events may become obsolete or have their data requirements change over time.

This Event is applicable to the following versions of CCOM:

- CCOM 4.x

NOTE   This Event was introduced in its more complete form after the release of CCOM 4.x series, which was designed, in part, to support the ISDDs and, hence, is not compatible with the CCOM 3.x series.

NOTE   Use of 'x' in the version number indicates a variable version. For example, "4.x" indicates applicability to all versions of CCOM with the MAJOR version '4', regardless of MINOR and PATCH versions.

Document Versioning

Version	Date	Major Changes
1.0	2020-06-26	Created as per OIIE use case architecture and updated OpenO&M template