

# OIE Scenario 8 – Pull OEM Model data from REG-PRODUCT to O&M

Almost all O&M systems use product data in some form, and the initial product data baseline can be obtained by O&M systems by pulling this data from REG-PRODUCT. The baseline data may be in a standardized form, such as Industry Standard Datasheet Definitions (ISDDs), may include internal (or external) extensions, and/or may use data sheets understood within the Execution Environment.

## Actors

<b>Product Model Registry (REG-PRODUCT)</b>	Receive requests for model data and reply with model data including data sheets.
<b>O&amp;M Systems</b>	Request model data from Product Model Registry and receive and register model data. Must already be provisioned with model data such that the models for which complete product data is to be requested is known.

## Data Content

The data sent from the Model Registry to the O&M System(s) is, at a minimum, composed of:

- The model(s)
- The data sheets, OEM and/or internally for each model

NOTE In contrast to [Scenario 7](#), there is no strict requirement that the data sheets be in a standardized form, such as ISDDs. If a standardized form is not used internally, mappings between the internal data sheets and standardized data sheets will likely need to be developed. The development of such mappings is not part of this Scenario.

## MIMOSA CCOM Reference Types

For the purposes of reference data management, the following MIMOSA CCOM types may be referenced:

- AssetType
- PropertySetType/PropertySetDefinition (for Data Sheets)
  - The reference PropertySetTypes and PropertySetDefinitions may come from the catalogue of published ISDDs.
- PropertyType/PropertyDefinition
- SegmentType
- UnitType

# System Interoperability Events

This scenario requires the sending/receipt of the following Events:

- [Pull Product Model Data](#)

## Data Formats

The data published by the Manufacturer Product Data System and received by the Product Model Registry must comply with MIMOSA CCOM BODs.

## Infrastructural Components

### ISBM

The communication between all systems occurs via the ISBM using request-response services.

### Implementation Requirements

The Product Model Registry must implement a client for the ISBM Provider Request and Channel Management (only the GetChannel operation) Services. The Product Model Registry may implement the ISBM Notify Listener Services for message notification.

O&M Systems must implement a client for the ISBM Consumer Request and Channel Management (only the GetChannel operation) Services. O&M Systems may implement the ISBM Notify Listener Services for message notification.

### Suggested Channel/Topic Configuration

Request and response channels can be created specifically for model data. For example:

```
/Enterprise/Enterprise Subdivision/.../ISO18435:D0.2/Request
```

For example:

```
/Demo Enterprise/Refinery A/Area A/ISO18435:D0.2/Request
```

As outlined in the document [ISBM Guidelines](#), topics should match the message content. Correspondingly, the following topic format should be used:

```
OIIE:S8:V1.2/StandardSchemaName{:Version}
```

For example:

```
OIIE:S8:V1.2/CCOM-XML:GetModelDatasheetDefinitions:V1.0
```

### SDAIR

In this Scenario, an SDAIR may participate as an explicit actor in the role of the Product Model Registry.

Additionally, the Scenario may require the use of an SDAIR in the following capacities:

- Registry of standard ISDDs and/or Enterprise Data Sheet Definitions (conforming to ISDD specification)

- Registry of mappings between ISDD properties and enterprise (i.e., O/O and OEM) defined properties

## CIR

The CIR is used to keep track of the object mappings between all systems.

### Suggested Categories Configuration

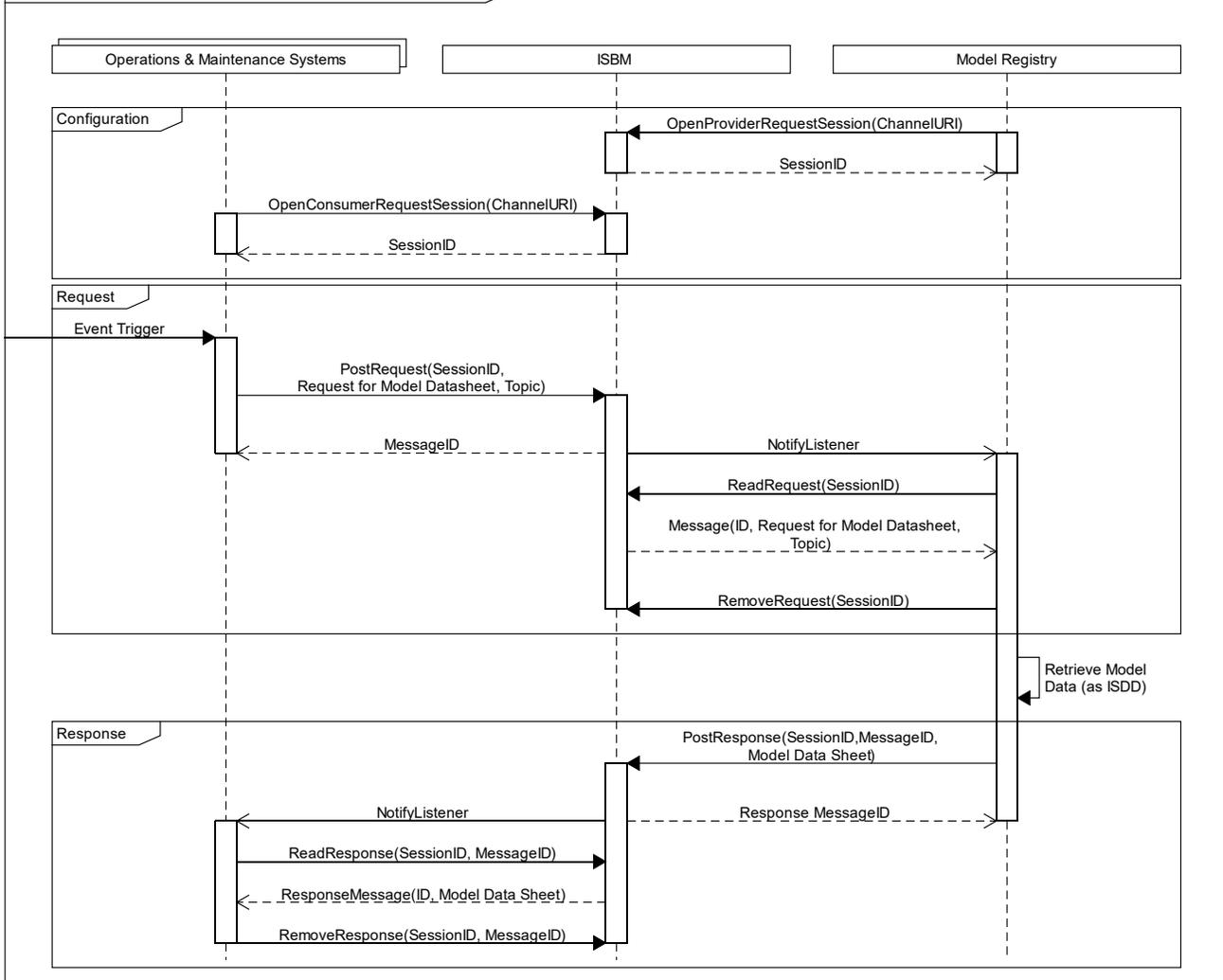
The following CIR categories are suggested:

Data Type	MIMOSA CCOM Categories
Models	Model

## Event Sequence

The following diagram represents a simplified set of exemplar interactions between the systems required to achieve this Scenario. The system actors are assumed to have OIIE/ISBM adaptors implemented as required, with services according to the ISBM Implementation Requirements described above. For simplicity, it is assumed that each system/adaptor implements the optional Notify Listener service.

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## Version Applicability/Alignment

Scenarios describe general data 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 data elements required by newer Scenarios, while older Scenarios may become obsolete or have their data requirements change over time.

This Scenario is applicable to the following versions of CCOM:

- CCOM 3.x (part of OSA-EAI 3.x)
- CCOM 4.x

NOTE As ISDDs are not a strict requirement of Scenario 8 (in contrast to [Scenario 7](#)), it is possible to apply this Scenario to CCOM 3.x.

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
1.2	2020-12-11	Updated to use OpenO&M template
1.1	2019-01-29	Updated to new Use Case Architecture. Added detail around data sheets.
1.0	2019-01-29	Imported from old draft documentation.