

# OIIE Publish Functional Location Data

This Event is published to provide the information about functional locations with the receiving system(s).

## Specific Data Content

The data sent from the source system is, at a minimum, composed of:

- The functional location(s)

In addition, the following data can be sent for context:

- The registration site(s) of the functional location(s) being published.

## Data Processing

This Event is publishing configuration data and does not require any data processing by the receiving systems. The recipient system may either just record the information or further trigger an Event to perform some action.

## Expected Response

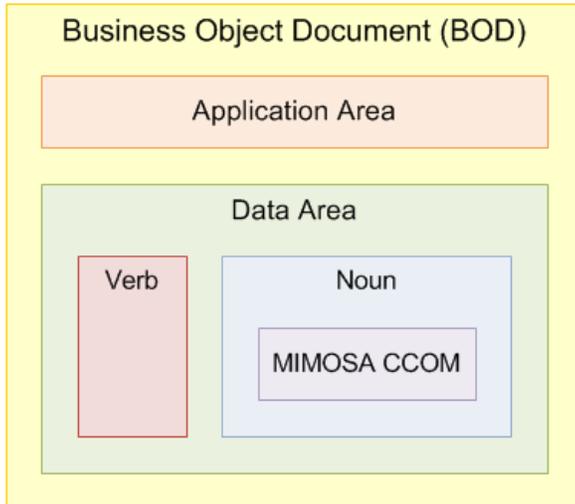
No response is expected.

## Reference Implementation

The functional locations' data can be published in many ways. The following is the list of current reference implementation(s) available:

1. Using SyncSegments 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.



## Example

An example of reference implementation of the publish functional locations data Event using SyncSegments CCOM BOD is provided below.

```

<?xml version="1.0"?>
<SyncSegments 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>66ea3c4e-9435-4c86-8f7b-f863ff3723c5</oa:LogicalID>
    </oa:Sender>
    <oa:CreationDateTime>2019-09-12T04:21:21Z</oa:CreationDateTime>
    <oa:BODID>5084208d-53d6-4033-ba80-42938601f79a</oa:BODID>
  </oa:ApplicationArea>
  <DataArea>
    <oa:Sync />
    <Segments>
      <Segment>
        <UUID>dc8d04f7-981f-432c-9c04-53f0e5e3dc19</UUID>
        <IDInInfoSource>SP016CD4C1CE41490F9ACA6B027B155EA9</IDInInfoSource>
        <InfoSource>
          <UUID>793f6bbb-f299-471b-80fe-7ffcfa307d</UUID>
          <ShortName>SmartPlant P&amp;ID</ShortName>
        </InfoSource>
        <PropertySetForEntity>
          <UUID>a84c0b42-ce81-4a49-9888-d98e4156955b</UUID>
          <PropertySet>
            <UUID>75233e0b-bee7-4a27-b8bf-768aeb7fcc1c</UUID>
            <Property>
              <UUID>365bf49d-070d-42ef-a061-939af83bf5a5</UUID>
            </Property>
            <Type>
              <UUID>e80ec4b0-0c93-487f-ba9e-d4c2cc4cbd3a</UUID>
              <ShortName>Context, Document, GUID Reference</ShortName>
            </Type>
          </PropertySet>
        </PropertySetForEntity>
      </Segment>
    </Segments>
  </DataArea>
</SyncSegments>
  
```

```

</Type>
<ValueContent>
  <UUID>bac0af78-7c19-410b-a652-8da5f0b6f7ce</UUID>
</ValueContent>
</Property>
<ShortName>P&ID Data Sheet (11-003)</ShortName>
<FullName>P&ID Data Sheet (11-003)</FullName>
<Type>
  <UUID>1d1d153d-2388-4062-9357-9d011ba34e47</UUID>
  <ShortName>P&ID Data Sheet</ShortName>
</Type>
<Group>
  <UUID>cf9069f1-58fb-4716-a365-790c9303ae8c</UUID>
  <ShortName>Parameters</ShortName>
  <FullName>Parameters</FullName>
  <SetAttribute>
    <UUID>8e0bbf40-7be6-498b-a756-e9425e4a0fce</UUID>
    <Type>
      <UUID>34262dea-09a7-4130-9292-c7d3ccd22b74</UUID>
      <ShortName>Coordinates, Cartesian, Center-Origin</ShortName>
    </Type>
    <ValueContent>
      <Coordinate>
        <X>0.26035</X>
        <Y>0.4191</Y>
      </Coordinate>
    </ValueContent>
  </SetAttribute>
</Group>
</PropertySet>
</PropertySetForEntity>
<ShortName>EM-11110AB</ShortName>
<FullName>EM-11110AB</FullName>
<Type>
  <UUID>25e3cecd-fb52-4eeb-a2a8-4364a9fba859</UUID>
  <ShortName>Motor</ShortName>
</Type>
<RegistrationSite>
  <UUID>3ebf2098-961e-45d2-b03b-4f5fbb8fa072</UUID>
  <ShortName>Refinery A</ShortName>
</RegistrationSite>
<ChildComponent>
  <UUID>e7665a23-903d-4461-bb6f-fecfdc6ae8e6</UUID>
  <Child xsi:type="Segment">
    <UUID>786448e7-95ca-41b0-bd37-7782ce97cb8e</UUID>
    <IDInInfoSource>SPF1365400CB4A4BCD8A00BA2A14D352BA</IDInInfoSource>
    <InfoSource>
      <UUID>793f6bbb-f299-471b-80fe-7ffcafda307d</UUID>
      <ShortName>SmartPlant P&ID</ShortName>
    </InfoSource>
  <ShortName>N100</ShortName>
  <FullName>N100</FullName>
  <Type>
    <UUID>e4230a76-68ab-4f10-8786-53c6f6105aa0</UUID>
    <ShortName>OUTLET NOZZLE</ShortName>

```

```

        </Type>
      </Child>
    </ChildComponent>
  <ChildComponent>
    <UUID>35ca3235-e03f-435b-b23f-070e59c0b700</UUID>
    <Child xsi:type="Segment">
      <UUID>fd353a66-5823-42ac-8818-978209aa13d3</UUID>
      <IDInInfoSource>SPE2DCB98C524D4B7EA7056B8BE56C1757</IDInInfoSource>
      <InfoSource>
        <UUID>793f6bbb-f299-471b-80fe-7ffcfa307d</UUID>
        <ShortName>SmartPlant P&amp;ID</ShortName>
      </InfoSource>
      <ShortName>N100A</ShortName>
      <FullName>N100A</FullName>
      <Type>
        <UUID>e85d5eaa-88f1-4938-bbf9-da13832125a5</UUID>
        <ShortName>INLET NOZZLE</ShortName>
      </Type>
    </Child>
  </ChildComponent>
</Segment>
</Segments>
</DataArea>
</SyncSegments>

```

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 3.x (part of OSA-EAI 3.x)
- CCOM 4.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
1.0	2020-06-04	Created as per OIIE use case architecture and updated OpenO&M template