

OIIE Publish Breakdown Structure Data

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

Specific Data Content

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

- The breakdown structure(s) metadata
- The breakdown structure connections data

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

- The details of functional locations that are part of the breakdown structure
- The registration site(s) of the functional location(s)

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.

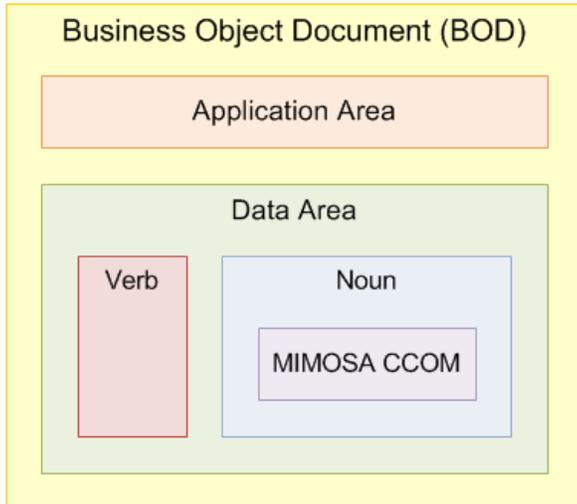
Reference Implementation

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

1. Using SyncBreakdownStructures/SyncBreakdownStructureConnections CCOM BOD

NOTE The SyncBreakdownStructures CCOM BOD publishes the metadata about the breakdown structure, while the SyncBreakdownStructureConnections CCOM BOD publishes the connections between functional location.

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 breakdown structures data Event using SyncBreakdownStructures CCOM BOD is provided below.

```

<?xml version="1.0"?>
<SyncBreakdownStructures 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>2019-09-12T04:22:21Z</oa:CreationDateTime>
    <oa:BODID>3c62153f-7cf1-405f-9f2c-c0b9b025933c</oa:BODID>
  </oa:ApplicationArea>
  <DataArea>
    <oa:Sync />
    <BreakdownStructures>
      <BreakdownStructure>
        <UUID>a3bb9226-92d0-4b56-9e17-2b9697cbade1</UUID>
        <ShortName>Plant Breakdown Structure</ShortName>
      </BreakdownStructure>
    </BreakdownStructures>
  </DataArea>
</SyncBreakdownStructures>
  
```

An example of reference implementation of the publish breakdown structures data Event using SyncBreakdownStructureConnections CCOM BOD is provided below.

```

<?xml version="1.0"?>
<SyncBreakdownStructureConnections 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>2019-09-12T04:22:21Z</oa:CreationDateTime>
  <oa:BODID>3c62153f-7cf1-405f-9f2c-c0b9b025933c</oa:BODID>
</oa:ApplicationArea>
<DataArea>
  <oa:Sync />
  <BreakdownStructureConnections>
    <BreakdownStructure>
      <UUID>a3bb9226-92d0-4b56-9e17-2b9697cbade1</UUID>
      <ShortName>Plant Breakdown Structure</ShortName>
      <NetworkForSegment>
        <UUID>7b8139e0-0d94-0133-48ca-06d4bf49815f</UUID>
        <Segment xsi:type="Site">
          <UUID>3ebf2098-961e-45d2-b03b-4f5fbb8fa072</UUID>
          <ShortName>Refinery A</ShortName>
        </Segment>
      </NetworkForSegment>
      <Connection>
        <UUID>ee115d80-8353-434d-b95a-53a273853ff3</UUID>
        <From>
          <UUID>b36f423a-71a2-43c0-b582-15b2cf811461</UUID>
          <ShortName>Debutanizer Unit I</ShortName>
        </From>
        <To>
          <UUID>d191db2e-2f3c-4776-8133-9420cc278b20</UUID>
          <ShortName>E-11110A</ShortName>
        </To>
      </Connection>
      <Connection>
        <UUID>402d50a3-31c6-4f75-ae97-46f9ab22b4b5</UUID>
        <From>
          <UUID>b36f423a-71a2-43c0-b582-15b2cf811461</UUID>
          <ShortName>Debutanizer Unit I</ShortName>
        </From>
        <To>
          <UUID>1b15375d-36dd-4370-8c90-7535c2c73c1d</UUID>
          <ShortName>E-11110B</ShortName>
        </To>
      </Connection>
      <Connection>
        <UUID>99df6506-fb19-479c-9af9-f1eebdf3b74b</UUID>
        <From>
          <UUID>b36f423a-71a2-43c0-b582-15b2cf811461</UUID>
          <ShortName>Debutanizer Unit I</ShortName>
        </From>
        <To>
          <UUID>4cbfd098-25ec-4bf7-a654-dd70461716a9</UUID>
          <ShortName>E-11115A</ShortName>
        </To>
      </Connection>
    </BreakdownStructure>
  </BreakdownStructureConnections>
</DataArea>

```

```

<Connection>
  <UUID>086fbd5a-00fd-4c40-8783-fb5af9865696</UUID>
  <From>
    <UUID>4cbfd098-25ec-4bf7-a654-dd70461716a9</UUID>
    <ShortName>E-11115A</ShortName>
  </From>
  <To>
    <UUID>bee0610e-7abb-4f0c-b32b-07ca234d6105</UUID>
    <ShortName>E-11115A</ShortName>
  </To>
</Connection>
</BreakdownStructure>
</BreakdownStructureConnections>
</DataArea>
</SyncBreakdownStructureConnections>

```

NOTE For brevity, the CCOM BOD example above does not show all the connections of the breakdown structure.

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