

OIE Push Asset Configuration Change

This Event instructs the receiving system(s) to process that a serialized asset has been successfully installed at or removed from its functional location and expects a confirmation response.

Specific Data Content

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

- The functional location
- The serialized asset
- The timestamp of when the installation or removal occurred

NOTE The start and end timestamps indicate when the event started or ended - if both are provided, their difference indicates the duration of the installation or removal process

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

- The agent (person/intelligent system) who detected the installation or removal

Data Processing

This Event is pushing asset configuration updates data and require that the receiving system process the data received. The receiving system can process the data by reconciling the installation or removal of the asset with any recently completed work orders and is expected to send a confirmation response back to the source system indicating that the asset install or remove was valid/accepted/reconciled successfully.

Expected Response

The receiving system is expected to send a confirmation response. As no data is sent back as response to this event, the conformation response will indicate to the sending system that the data was successfully received by the receiving system and was processed successfully.

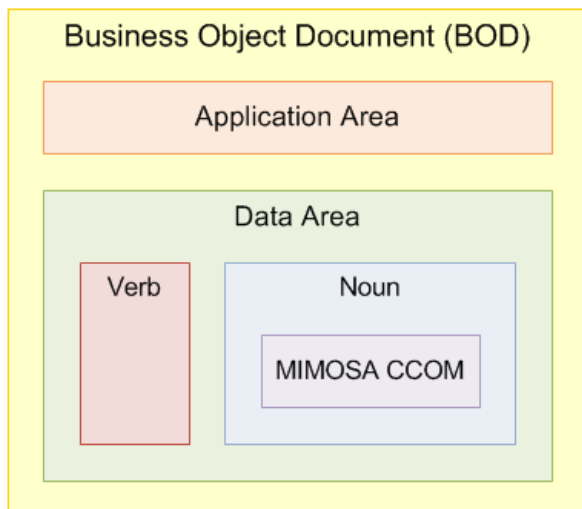
Reference Implementation

The asset configuration changes can be pushed 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 ProcessAssetSegmentEvents CCOM BOD/ConfirmBOD

NOTE The reference implementation of ConfirmBOD is made available from [OAGIS](#).

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 reference implementation of the Push Asset Configuration Change event using ProcessAssetSegmentEvents CCOM BOD is provided below.

```

<?xml version="1.0" encoding="utf-8" ?>
<ProcessAssetSegmentEvents xmlns:oa="http://www.openapplications.org/oagis/9"
    xmlns="http://www.mimosa.org/ccom4"
    releaseID="1.2.1" versionID="4.1.0">
  <oa:ApplicationArea>
    <oa:Sender>
      <oa:LogicalID>3939cddb-fba2-4e77-bdd7-ac0cae069741</oa:LogicalID>
      <oa:ConfirmationCode>Always</oa:ConfirmationCode>
    </oa:Sender>
    <oa:CreationDateTime>2019-10-01T03:13:09Z</oa:CreationDateTime>
    <oa:BODID>56f60441-cc4c-4fc2-9524-0df921187974</oa:BODID>
  </oa:ApplicationArea>
  <DataArea>
    <oa:Process/>
    <AssetSegmentEvents>
      <Asset>
        <UUID>df3cb180-e410-11de-8a39-0800200c9a66</UUID>
        <ShortName>3Z84G32AA0-4 AC Induction Motor</ShortName>
        <RegistrationSite>
          <UUID>833d1881-80df-4fcc-be80-bbc5f2395e58</UUID>
          <ShortName>Juneora</ShortName>
        </RegistrationSite>
      </Asset>
      <Segment>
        <UUID>3f8f5618-3ee7-4c30-afe9-0f80e24d4f45</UUID>
        <ShortName>MTR-101</ShortName>
        <RegistrationSite>
          <UUID>833d1881-80df-4fcc-be80-bbc5f2395e58</UUID>
          <ShortName>Juneora</ShortName>
        </RegistrationSite>
      </Segment>
    </AssetSegmentEvents>
  </DataArea>
</ProcessAssetSegmentEvents>
  
```

```

<AssetSegmentEvent>
  <UUID>76238289-57a9-4ef5-888f-ea131b46dd60</UUID>
  <Type>
    <UUID>ecc99353-412b-4995-bd71-1cbc6fc16c7c</UUID>
    <ShortName>Installation of Asset on Segment</ShortName>
  </Type>
  <End>2019-10-01T13:21:00Z</End>
  <Asset>
    <UUID>df3cb180-e410-11de-8a39-0800200c9a66</UUID>
    <ShortName>3Z84G32AA0-4 AC Induction Motor</ShortName>
  </Asset>
  <Segment>
    <UUID>3f8f5618-3ee7-4c30-afe9-0f80e24d4f45</UUID>
    <ShortName>MTR-101</ShortName>
  </Segment>
</AssetSegmentEvent>
</AssetSegmentEvents>
</DataArea>
</ProcessAssetSegmentEvents>

```

An example of reference implementation of the confirmation message response in case for success using ConfirmBOD is provided below.

```

<?xml version="1.0"?>
<ConfirmBOD versionID="1.0" releaseID="9.0"
  xmlns="http://www.mimosa.org/ccom4"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:oa="http://www.openapplications.org/oagis/9">
  <oa:ApplicationArea>
    <oa:Sender>
      <oa:LogicalID>97186e9c-412f-4c4e-a198-7b03e8062884</oa:LogicalID>
    </oa:Sender>
    <oa:CreationDateTime>2019-10-01T03:30:09Z </oa:CreationDateTime>
    <oa:BODID>b90ad144-cd62-43a0-8a0d-648c296e5f25</oa:BODID>
  </oa:ApplicationArea>
  <DataArea>
    <oa:Confirm/>
    <oa:BOD>
      <oa:OriginalApplicationArea>
        <oa:Sender>
          <oa:LogicalID>3939cddb-fba2-4e77-bdd7-ac0cae069741</oa:LogicalID>
        </oa:Sender>
        <oa:CreationDateTime>2019-10-01T03:13:09Z</oa:CreationDateTime>
        <oa:BODID>56f60441-cc4c-4fc2-9524-0df921187974</oa:BODID>
      </oa:OriginalApplicationArea>
      <oa:BODSuccessMessage>
        <oa:NounSuccessMessage>
          <oa:ProcessMessage>
            <oa:Description>Process BOD successfully received</oa:Description>
          </oa:ProcessMessage>
        </oa:NounSuccessMessage>
      </oa:BODSuccessMessage>
    </oa:BOD>
  </DataArea>
</ConfirmBOD>

```

An example of reference implementation of the confirmation message response in case of failure using ConfirmBOD is provided below.

```
<?xml version="1.0"?>
<ConfirmBOD versionID="1.0" releaseID="9.0"
  xmlns="http://www.mimosa.org/ccom4"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:oa="http://www.openapplications.org/oagis/9">
  <oa:ApplicationArea>
    <oa:Sender>
      <oa:LogicalID>97186e9c-412f-4c4e-a198-7b03e8062884</oa:LogicalID>
    </oa:Sender>
    <oa:CreationDateTime>2019-10-01T03:30:09Z </oa:CreationDateTime>
    <oa:BODID>b90ad144-cd62-43a0-8a0d-648c296e5f25</oa:BODID>
  </oa:ApplicationArea>
  <DataArea>
    <oa:Confirm/>
    <oa:BOD>
      <oa:OriginalApplicationArea>
        <oa:Sender>
          <oa:LogicalID>3939cddb-fba2-4e77-bdd7-ac0cae069741</oa:LogicalID>
        </oa:Sender>
        <oa:CreationDateTime>2019-10-01T03:13:09Z</oa:CreationDateTime>
        <oa:BODID>56f60441-cc4c-4fc2-9524-0df921187974</oa:BODID>
      </oa:OriginalApplicationArea>
      <oa:BODFailureMessage>
        <oa:NounFailureMessage>
          <oa:ErrorProcessMessage>
            <oa:Description> The processing has failed because data was invalid.
          </oa:Description>
          </oa:ErrorProcessMessage>
        </oa:NounFailureMessage>
      </oa:BODSuccessMessage>
    </oa:BOD>
  </DataArea>
</ConfirmBOD>
```

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 4.1 and above

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
1.1	2020-11-17	Created as per the new use Case Architecture.