

# OIIE Pull Work Order Data

This Event is sending a query to request the details of existing work order(s) and expects a reply containing the work order(s) details.

## Specific Data Content

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

- The work order details, such as work order name, priority level etc. (if available)
- The scheduling date-times (i.e., start-before, start-after, end-before, end-after) to get the work order(s) for the specified value or range.

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

- The functional location, asset, or list of resources on which the work order is requested
- The solution package indicated for use with the work order (if any)
- The engineering study entry related to the work order (if any)
- The agent(s) who requested to perform the work and their role

## Data Processing

This Event is querying work order(s) data and require that the recipient system processes the data received. The receiving system is expected to respond to the query by sending the details of the work order(s).

## Expected Response

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

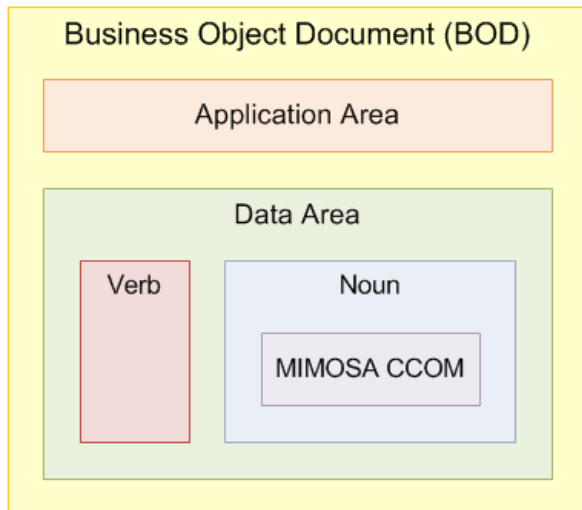
- The work order(s) details, if there exists any work order(s) in the system based on the data included in the request

## Reference Implementation

The query to request work order(s) 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 GetWorkOrders/ShowWorkOrders 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 pull work orders Event using GetWorkOrders CCOM BOD is provided below.

```

<?xml version="1.0"?>
<GetWorkOrders 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>2020-07-16T13:21:00Z</oa:CreationDateTime>
    <oa:BODID>99vb4811-2a62-4ea-8ab2-5372d744ed92</oa:BODID>
  </oa:ApplicationArea>
  <DataArea>
    <oa:Get>
      <oa:Expression>*/</oa:Expression>
    </oa:Get>
    <WorkOrdersCriteria>
      <ShortName>Work Order Name</ShortName>
    </WorkOrdersCriteria>
  </DataArea>
</GetWorkOrders>

```

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

```

<?xml version="1.0"?>
<ShowWorkOrders 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>
  <LogicalID>78fec220-8bfb-0137-32bf-22000b499058</LogicalID>
</oa:Sender>
<oa:CreationDateTime>2020-07-16T15:21:00Z</oa:CreationDateTime>
<oa:BODID>az72be3e-84ab-47b1-85dc-8729e62e35f5</oa:BODID>
</oa:ApplicationArea>
<DataArea>
  <oa:Show/>
  <WorkOrders>
    <WorkOrder>
      <UUID>28ead040-1f02-4654-b3c8-693d8ebe469f</UUID>
      <ShortName>Work Order Name</ShortName>
      <PriorityLevelType>
        <UUID>bb72ef71-d560-4a78-afc7-aeedbf4d1a4f</UUID>
        <ShortName>Highest Priority Level</ShortName>
        <PriorityScale>100</PriorityScale>
      </PriorityLevelType>
      <WorkManagementType>
        <UUID>cdc33a36-5f93-4f4c-a467-b4a78ff75578</UUID>
        <ShortName>Maintenance, Preventive</ShortName>
      </WorkManagementType>
      <WorkTaskType>
        <UUID>760c2b2b-dc3e-4e40-89c6-a346f6029276</UUID>
        <ShortName>Replace</ShortName>
      </WorkTaskType>
      <StartBefore>2019-06-03T11:20:00</StartBefore>
      <EndBefore>2019-06-04T09:30:00</EndBefore>
      <ActualStart>2019-06-03T11:20:00</ActualStart>
      <ActualEnd>2019-06-04T09:30:00</ActualEnd>
      <Asset>
        <UUID>242fac5c-e411-45a4-8888-9099b3c45cdb</UUID>
        <ShortName>Cooling Fan Motor 68987-A</ShortName>
      </Asset>
      <WorkStatus>
        <UUID>b6732f60-9051-4f4a-9d4d-b603a8963238</UUID>
        <ShortName>Work order put in process</ShortName>
        <Type>
          <UUID>e22b29f4-a3ab-408a-a5ee-b2a597bac1c6</UUID>
          <ShortName>Started</ShortName>
        </Type>
      </WorkStatus>
    </WorkOrder>
  </WorkOrders>
</DataArea>
</ShowWorkOrders>

```

## 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	2020-11-12	Created as per OIIE use case architecture and updated OpenO&M template