OIIE Pull Work Request Data

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

Specific Data Content

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

- The work request details, such as work request name, priority level etc. (if available)

- The scheduling date-times (i.e., start-before, start-after, end-before, end-after) to get the work request(s) for the specified value or range.

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

- The recommendation for the work request

- The functional location, asset, or list of resources on which the work is requested

- The agent(s) who requested to perform the work and their role

- The work order and/or completed work record that the work request generated and eventually resulted in, respectively

- The solution package indicated for use with the work request (if any)

- The engineering study entry related to the work request (if any)

Data Processing

This Event is querying work request(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 request(s).

Expected Response

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

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

Reference Implementation

The query to request work request 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 GetWorkRequests/ShowWorkRequests 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.
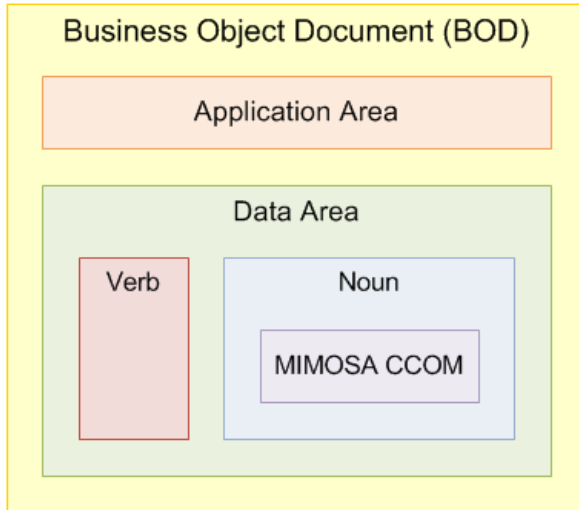
Example

An example of reference implementation of the pull work requests Event using GetWorkRequests CCOM BOD is provided below.

```xml
<?xml  version="1.0"?>
<GetWorkRequests 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>c24b4811-2a62-4eaa-8ab2-5372d744ed92</oa:BODID>
  </oa:ApplicationArea>
  <DataArea>
    <oa:Get>
      <oa:Expression>/*</oa:Expression>
    </oa:Get>
    <WorkRequestsCriteria>
      <ShortName>Work Request Name</ShortName>
    </WorkRequestsCriteria>
  </DataArea>
</GetWorkRequests>
```

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

```xml
<?xml  version="1.0"?>
<ShowWorkRequests languageCode="EN" releaseID="4.1.0"
  xmlns="http://www.mimosa.org/ccom4"
  xmlns:oa="http://www.openapplications.org/oagis/9"
```

```xml
  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/>
    <WorkRequests>
      <WorkRequest>
        <UUID>a7f65b93-810b-437f-9f44-2c6189e623fb</UUID>
        <ShortName>Work Request 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>Request for work converted to work request</ShortName>
          <Type>
            <UUID>3a7c4682-ca5c-4ae8-bf7f-f05cad877639</UUID>
            <ShortName>Converted</ShortName>
          </Type>
        </WorkStatus>
        <WorkOrder>
          <UUID>28ead040-1f02-4654-b3c8-693d8ebe469f</UUID>
          <ShortName>Work Order Name</ShortName>
        </WorkOrder>
      </WorkRequest>
    </WorkRequests>
  </DataArea>
</ShowWorkRequests>
```

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