OIIE Push Request For Work Data

This Event instructs the receiving system to process the request for work and expects a response containing the details of the created work request(s) or work order(s) from the receiving system.

Specific Data Content

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

- The description of the work

- The function location, serialized asset or list of resources on which the work needs to be performed

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

- The agent (person or intelligent system) who is requesting the work

- The agent (person or intelligent system) who is requested to perform the work

- The event or recommendation that caused the request for work

- The solution package (pre-planned work order) requested to be utilized for the work (if any)

- The priority level type of the request such High, Medium or Low.

- The recommended start and end time for the work.

Data Processing

This Event is pushing request for work and require that the recipient system processes the data received. The receiving system is expected to create the work request(s) or work order(s) and send the details of them as a response back to the source system.

Expected Response

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

- The details of work request(s) or work order(s) created as per the request for work
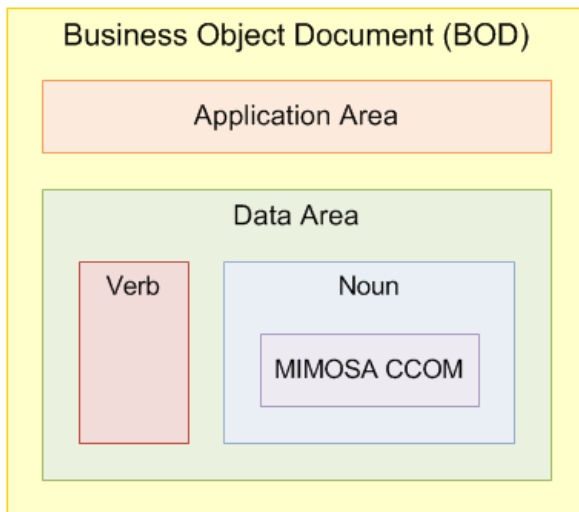
In addition, the following data can be sent:

- The agent(s) who will perform the work

- The solution package (pre-planned work order) to be used for the work (if any)

- Any other information that was included in the original request for work but was updated by the receiving system.

Reference Implementation

The request for work message/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 ProcessRequestsForWok/AcknowledgeRequestsForWork 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 push request for work Event using ProcessRequestsForWork CCOM BOD is provided below.

```xml
<?xml  version="1.0"?>
<ProcessRequestsForWork 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>e209489a-f5fd-49bc-9788-2f2b36d50734</oa:LogicalID>
    </oa:Sender>
    <oa:CreationDateTime>2019-05-24T13:21:00Z</oa:CreationDateTime>
    <oa:BODID>a28c4811-2a62-4eaa-8ab2-5372d744ed92</oa:BODID>
  </oa:ApplicationArea>
  <DataArea>
    <oa:Process/>
    <RequestsForWork>
      <RequestForWork>
        <UUID>d33cb180-e4f0-11de-8a39-0801200c9a66</UUID>
        <ShortName>Schedule Corrective Action</ShortName>
        <Type>
          <UUID>df036c45-65b6-40d5-9587-2e322fb2205e</UUID>
          <ShortName>Request For Work</ShortName>
```

```
        </Type>
        <PriorityLevelType>
          <UUID>bb72ef71-d560-4a78-afc7-aeedbf4d1a4f</UUID>
          <ShortName>Highest Priority Level</ShortName>
          <PriorityScale>100</PriorityScale>
        </PriorityLevelType>
          <UUID>242fac5c-e411-45a4-8888-9099b3c45cdb</UUID>
          <ShortName>Cooling Fan Motor 68987-A</ShortName>
        </Asset>
        <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>
        <IsAutomaticallyApproved>true</IsAutomaticallyApproved>
        <StartBefore>2019-06-03T11:20:00</StartBefore>
        <EndBefore>2019-06-04T09:30:00</EndBefore>
        <Recommendation>
          <UUID>dd0f73f7-0615-4a07-8e55-64f8a2aa738c</UUID>
          <ShortName>Asset Condition Assessment</ShortName>
        </Recommendation>
      </RequestForWork>
    </RequestsForWork>
  </DataArea>
</ProcessRequestsForWork>
```

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

```
<?xml  version="1.0"?>
<AcknowledgeRequestsForWork 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>97186e9c-412f-4c4e-a198-7b03e8062884</oa:LogicalID>
    </oa:Sender>
    <oa:CreationDateTime>2019-09-13T13:21:00Z</oa:CreationDateTime>
    <oa:BODID>21716f3c-2a86-498a-8369-91b01fee0935</oa:BODID>
  </oa:ApplicationArea>
  <DataArea>
    <oa:Acknowledge/>
    <RequestsForWork>
      <RequestForWork>
        <UUID>d33cb180-e4f0-11de-8a39-0801200c9a66</UUID>
        <PresentLifecycleStatus>
          <UUID>57ce4e30-8085-0137-4662-22000b499058</UUID>
          <ShortName>In Progress</ShortName>
        </PresentLifecycleStatus>
        <ShortName>Schedule Corrective Action</ShortName>
        <Type>
```

```xml
            <UUID>df036c45-65b6-40d5-9587-2e322fb2205e</UUID>
            <ShortName>Request For Work</ShortName>
          </Type>
          <ActiveWork xsi:type="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>
            <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 converted to order</ShortName>
              <FullName>CBM Request for work Converted to Order in SAP</FullName>
              <Type>
                <UUID>3a7c4682-ca5c-4ae8-bf7f-f05cad877639</UUID>
                <ShortName>Converted</ShortName>
                <FullName>Request Converted to Order</FullName>
              </Type>
            </WorkStatus>
          </ActiveWork>
        </RequestForWork>
      </RequestsForWork>
    </DataArea>
</AcknowledgeRequestsForWork>
```

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	2020-06-25	Created as per OIIE use case architecture and updated OpenO&M template