

OIE Pull Completed Work Data

This Event is sending a query to request the completed work records and expects a reply containing the details of completed work records.

Specific Data Content

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

- The completed work details, such as completed work name, priority level etc.
- The actual start or end date-times to get the completed work records 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 was performed
- The agent(s) who performed the work and their role
- The work order(s) and/or work request(s)

Data Processing

This Event is querying completed work 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 completed work records.

Expected Response

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

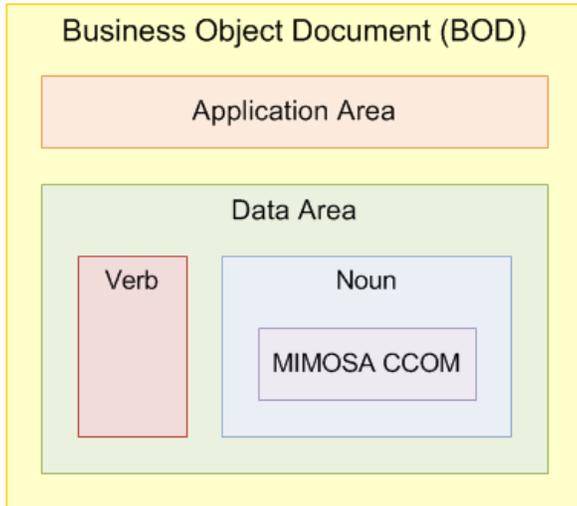
- The completed work records, including the complete list of resources utilized and consumed

Reference Implementation

The query to request completed work 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 GetCompletedWork/ShowCompletedWork 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 completed work Event using GetCompletedWork CCOM BOD is provided below.

```
<?xml version="1.0"?>
<GetCompletedWork 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>99vb4811-2a62-4eaa-8ab2-5372d744ed92</oa:BODID>
  </oa:ApplicationArea>
  <DataArea>
    <oa:Get>
      <oa:Expression>/*</oa:Expression>
    </oa:Get>
    <CompletedWorkCriteria>
      <ShortName>Work Order Completed</ShortName>
    </CompletedWorkCriteria>
  </DataArea>
</GetCompletedWork>
```

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

```
<?xml version="1.0"?>
<ShowCompletedWork 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>2020-08-16T15:21:00Z</oa:CreationDateTime>
<oa:BODID>az72be3e-84ab-47b1-85dc-8729e62e35f5</oa:BODID>
</oa:ApplicationArea>
<DataArea>
  <oa:Show/>
  <CompletedWork>
    <CompletedWork>
      <UUID>b7732f60-9051-4f4a-9d4d-b603a8963238</UUID>
      <ShortName>Work Order Completed</ShortName>
      <ActualStart>2019-06-03T11:20:00</ActualStart>
      <ActualEnd>2019-06-04T09:30:00</ActualEnd>
      <CalendaredWork xsi:type="WorkOrder">
        <UUID>28ead040-1f02-4654-b3c8-693d8ebe469f</UUID>
        <ShortName>Work Order Name</ShortName>
      </CalendaredWork>
    </CompletedWork>
  </CompletedWork>
</DataArea>
</ShowCompletedWork>

```

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	2020-11-13	Created as per OIIE use case architecture and updated OpenO&M template