IFS Aviation Maintenance

Workscope Co-ordination API Guide

ICAM 26.2



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Introduction

Introduction

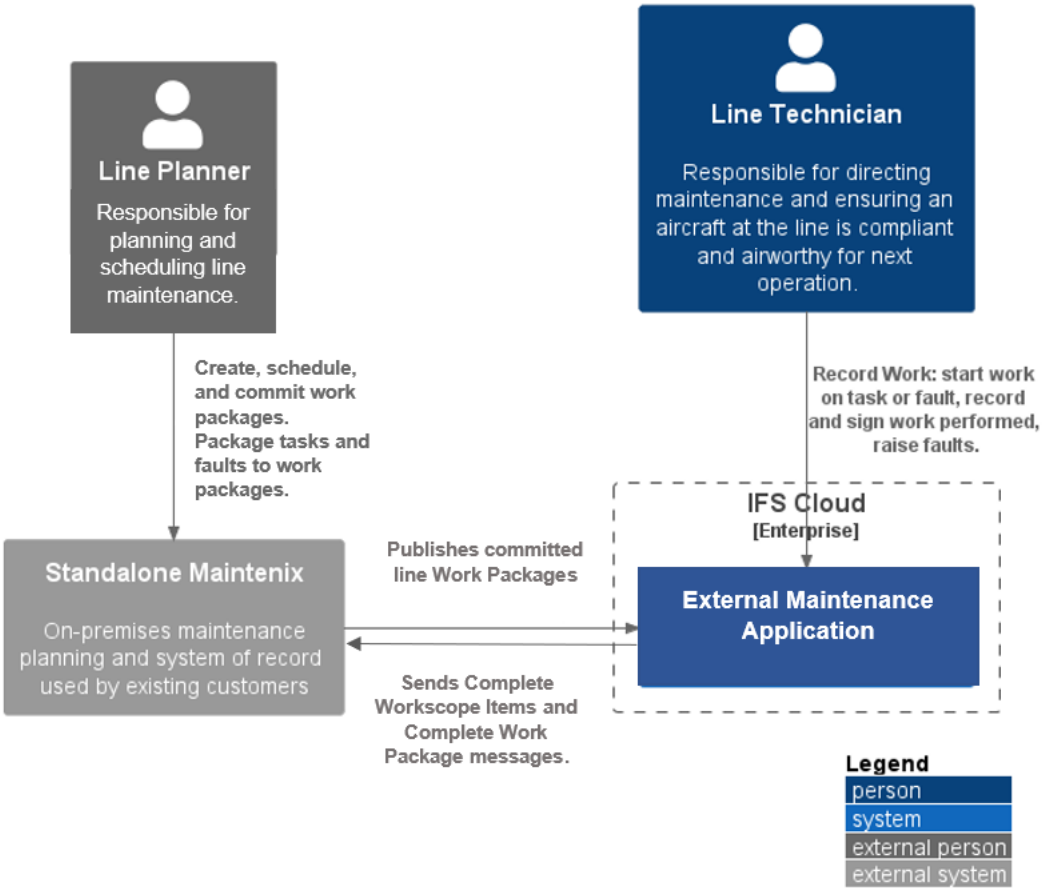
The Workscope Co-ordination API is the method that connects an external maintenance execution system to CAMO. The maintenance execution system requires a work package containing the necessary workscope - including parts, tools, measurements, and work instructions, for line technicians to perform maintenance. CAMO is a maintenance planning system that provides work package information to maintenance execution systems. The mobile maintenance application in IFS cloud is a maintenance execution system solution that can be paired with CAMO.

Workscope co-ordination involves three scenarios: publish work package, complete workscope item, complete work package.

The API is used to extract and send the work package to an external maintenance execution system. This enables the smooth transfer of the work package information from CAMO to the external maintenance execution system.

The value of integrating the workscope co-ordination API:

- With the integration between your maintenance execution system and CAMO, the work package information can be updated in real-time as maintenance requirements and flight changes occur. This ensures that line technicians always have the latest information, reducing the chances of errors or outdated instructions.
- Facilitates better communication between line technicians and planners. The ability to receive modifications to the workscope in real-time ensures that everyone is on the same page and can respond quickly to changes.
- Improved maintenance efficiency with the combined use of a maintenance execution system like Mobile Maintenance, leads to quicker turnaround times for aircraft or equipment.



Persona/System	Description
Line Technician	A line technician conducts routine maintenance checks to ensure the operational efficiency of machines and equipment on an aircraft.
Line Planner	The line planner manages line maintenance activities.
Integrator	The integrator configures the API to work together with CAMO and the maintenance application system.
External Maintenance application	A customer owned application where aircraft maintenance is executed.
CAMO	CAMO is the system of record for maintenance, and planning.

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API Scenarios

Workscope API scenarios

This section describes the scenarios supported by the API.

Each of the supported scenarios contain the following sections:

`Goal: The purpose of the scenario.`

`Pre-conditions: The conditions that must be met before the scenario can be implemented.`

`Messaging: The description of the messaging required for the scenario.`

`Result: The outcome of the successful execution of the scenario.`

Publish Workscope

Goal: Publish Workscope to the External System for execution.

Pre-conditions: The Line Planner has clicked the Publish Workscope button on the Work Package Details page.

Messaging: The message/payload is an array of the Work Package with an array of Workscope Items.

Result: The Workscope message is published to the CAMO Outbox.

Note The CAMO Outbox (JMS_MX_OUTBOX_JMS_TOPIC) is an Oracle Advanced Queue in the CAMO Database. The Integrator is responsible for retrieving messages from this queue and propagating them to the External System.

Complete Workscope Item

The Work Package is auto started to complete the Workscope Items.

A Workscope item could be a fault, Job Instruction Card (JIC), executable requirement or an adhoc task.

Goal: Complete the Workscope items in the Work Package.

Pre-conditions: Workscope items are in a committed Work Package.

Messaging: The message/payload is an array of Workscope items, and contains the ID, actual end date and technical reference link.

Result: Measurements and part requirements are removed from the workscope item. The workscope items are completed. The actual end date and an optional technical reference is populated.

Complete Work Package

Goal: Completing the Work Package from an external maintenance system.

Pre-conditions:The Work Package's Workscope Items must be historic (Completed, Canceled or Terminated).

Messaging: The message/payload is the Work Package's ID, and the actual start and end dates.

Result: The Work Package is complete.

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Setting up

Setting up

The following sections provide setup and configuration information.

Licensing and subscription

Your organizations must hold a CAMO license to use the Workscope Co-ordination API.

About this task

The WC_API feature is added to your CAMO `license.xml`. If your current license does not include this feature, contact your CAMO representative.

> **Note** `license.xml` resides in the `<install-dir>/domain/config/maintenix` folder, on the CAMO application server host.

Granting security permission

In order to invoke the WC_API the CAMO user must be granted the relevant permissions.

About this task

There are four configuration parameters that need to be enabled for the WC_API to be invoked:

Parameter name	Description
ACTION_PUBLISH_WORK_PACKAGE	Permission to publish work package details to external systems.
WC_API_COMPLETE_WORKSCOPE_ ITEM_BATCH	Permission to invoke the Complete Workscope Item Batch API in WCAPI
WC_API_COMPLETE_WORK_PACKAGE	Permission to invoke the Complete Work Package API in WCAPI
WC_API_WORKPACKAGE	Permission to access the Work Package Publish API

Steps

1. Log in as a user with the ADMIN role.
2. Go to **Administrator**, click **Role Search.**
3. Search for the role that you want to grant permission to, then select it from the list.
4. On the **Role Details** page, click the **Permissions** tab.
5. Search and select the parameters listed above.
6. Click **Enable.**

Configure Work Package completion logic

The parameters that influence Work Package completion / Workscope completion must be configured.

The parameter defaults are configured in UTL_CONFIG_PARM table in CAMO. If these parameters are set to ERROR the work package won't be completed per CAMO rules and the WC API raises an alert.

Complete Work Package Configuration Parameters

PARM_NAME	PARM_DESC
LABOR_IN_WORK _IN_COMPLETE_TASK	The labor is in work on a completed task.
RELEASE_AOG_FAULT	Severity of the validation for AOG faults on the aircraft/component or any of its sub-components that are not assigned to any check/work order on that are currently IN WORK or INSPREQ.
RELEASE_LOW _SEV_OPEN_FAULT	Severity of the validation for low severity open faults on the aircraft/component or any of its sub-components that are not assigned to any check/work order on that are currently IN WORK or INSPREQ.
RELEASE_MISSING _COMPONENT	If you try to close a work package for an aircraft or component that is missing mandatory sub-components, the ERROR setting for this parameter determines whether you can proceed. ERROR: you cannot complete the work package (unless there is another IN WORK work package against the aircraft or component).
RELEASE_NEAR _DUE_FAULT	Severity of the validation for non-historic faults on the aircraft/component and any of sub-components that are not assigned to any check/work order that are currently IN WORK or INSPREQ. See: RELEASE_ NOTIFY_INTERVAL
RELEASE_NEAR _DUE_TASK	Severity of the validation for non-historic task on the aircraft/component and any of sub-components that are not assigned to any check/work order that are currently IN WORK or INSPREQ. See: RELEASE_ NOTIFY_INTERVAL

PARM_NAME	PARM_DESC
RELEASE_ OVERDUE_FAULT	Severity of the validation for non-historic faults on the aircraft/component or any of its sub-components that are not assigned to any check/work order that are currently IN WORK or INSPREQ and whose deadline is overdue.
RELEASE_ OVERDUE_TASK	Severity of the validation for non-historic tasks on the aircraft/component or any of its sub-components that are not assigned to any check/work order that are currently IN WORK or INSPREQ and whose deadline is overdue.
RELEASE_ UNCOLLECTED_ JOB_CARDS	Severity of the validation for completing a check/work order that has uncollected job cards remaining.
REPETITIVE_ TASK_TO_MONITOR _FAULT	Severity of the validation for the user is attempting to complete fault having repetitive task to monitor it.

PARM_TYPE = LOGIC , ENCRYPT_BOOL = 0 , CONFIG_TYPE = USER

WC_API authentication

Authentication is handled in two different ways depending on whether WC_API is deployed in a standalone CAMO context (basic authentication) or within IFS Cloud (IAM/OIDC).

About this task

The invoking of the WC_ API is restricted to the organization that have a valid CAMO license, and for user roles that the security permissions are granted to.

System initialization

New customers initializing CAMO for the first time need to migrate data into CAMO: Engineering & Maintenance Programs Baseline (requirements, job cards, blocks - jic steps, jic parts, jic measurements, jic tools, jic labor), Configuration Baseline (assembly, configuration slots, measurements, parts, part groups), Actuals - Aircraft, inventory, tasks, work packages System Baseline Data - Skills, Locations, and Work Type

For existing customers, no special data migration is required to enable the WC_API.

Activate alerts

When the WCAPI encounters an error, the business user is notified through the CAMO Alert feature.

About this task

You can activate, deactivate and also set alert priority of the three WCAPI alerts:

- Incomplete Work Package
- Incomplete Work Package Due to Aircraft Release
- Incomplete Workscope Item

Steps

1. Go to the **Alerts Setup** page.
2. Click the **Category** drop-down list and select "WCAPI"
3. Select the check box beside the alerts: **Incomplete Work Package, Incomplete Work Package Due to Aircraft Release, and Incomplete Workscope Item.**
4. Click **Activate Alert.**

Tip: You can edit the roles assigned to alerts by selecting the check box beside the alert and clicking **Edit Role Assignments**. From this page, you can select or clear roles as required.

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Workscope Co-ordination API

Open API Specification

You can obtain the WC_API Open API Specification from a running CAMO instance at the URL http://<host:port>/wcApi/openapi.json. The user that is used to log in requires the API_VIEW_REQUEST permission. It is also bundled with this guide under API Schemas/wcapi-openapi.json

Inbound and Outbound message samples

This section contains sample requests/responses. Refer to the Open API Specification for more details.

Publish Work Package

This message is published to the CAMO Outbox when a Line Planner clicks the Publish Work Package button.

Endpoint:Maintenix Outbox - Oracle Advanced Queue with name JMS_MX_OUTBOX_JMS_TOPIC

Outbox message request


```
{
  "metaData":{
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      "timestamp":"2023-01-24T08:43:07.195Z"
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```

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"number":"WO - 6063224",
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"barcode":"T40S001EB9S",
"documentReference":"document reference",
"description":"test work package",
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"scheduledEndDate":"2023-01-24T08:42:00.000Z",
"scheduledDurationInHours":0.0,
"scheduledLocation":{
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"workTypeCodes":[
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   "ACKEMBP5"
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"serviceTypeCodes":[
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                  }
               ]
            }
         ],
         "partRequirements":[

         ],
         "tools":[

         ]
      }
   ]
}
```

Complete Workscope Item

This message is used to complete a Workscope Item.

Endpoint:`http://<maintenix>/wcApi//v1//completeWorkscopeItem/batch`

Request

```
{
  "metadata": {
    "messageId": "88888",
    "system": "MM",
    "user": "johnsmith",
    "timestamp": "2023-01-08T23:11:07.246Z"
  },
  "completeWorkscopeItems": [
    {
      "id": "F21B0BFA279F971EE053030011ACEB3E",
      "actualEndDate": "2023-01-08T23:11:07.246Z",
      "technicalReferences": [
        {
          "name": "Task Completion Record2",
          "link": "/AM/repos/am/pull-requests/21089/builds2"
        }
      ]
    }
  ]
}
```

Complete Work Package

This message is used to complete the work package.

Endpoint: `http://<maintenix>/wcApi//v1/completeWorkPackage`

Request

```
{
  "metadata": {
    "correlationId": "60.1.1234567",
    "messageId": "88888",
    "system": "MM",
    "user": "johnsmith",
    "timestamp": "2023-01-13T14:52:36.843Z"
  },
  "completeWorkPackage": {
    "id": "EB83F39AD5F70A3FE053020011ACBBCA",
    "actualStartDate": "2023-01-13T14:52:36.843Z",
    "actualEndDate": "2023-01-13T14:52:36.843Z"
  }
}
```

5

Errors and Warnings

Errors and Warnings

When the WCAPI encounters errors when messages are sent to CAMO when completing Workscope items and work packages, alerts are raised in CAMO.

Scenario	Result	Message
The Task/Fault in the message doesn't exist in CAMO.	Incomplete Workscope items alert triggered	Workscope Item not found.
The Task/Fault in the message has been canceled or terminated in CAMO	Incomplete Workscope items alert triggered	Workscope Item status CANCEL is invalid.
The Task/Fault in the message has been previously completed in CAMO	Incomplete Workscope items alert triggered	Workscope Item status COMPLETE in invalid.
The Task/Fault in the message is not assigned to a WP in CAMO	Incomplete Workscope items alert triggered	This task/fault is not assigned to a work package.
The Task/Fault in the message is in work in CAMO	Incomplete Workscope items alert triggered	Workscope Item status IN WORK is invalid.

Scenario	Result	Message
Another work package is started at a location in CAMO that is different from the work package in the message. The work package in the message is scheduled to a different location.	Incomplete Workscope items alert triggered	One work package must be scheduled during an Aircraft Turn and the Turn Status must be Inbound or Arrived
The Work Package doesn't exist in CAMO.	Incomplete Work Package alert triggered	Work Package not found.
The Work Package Status is Complete or Canceled in CAMO.	Incomplete Work Package alert triggered	This operation sign() can not be executed on task <barcode> with COMPLETE status.
The Work Package is not IN WORK in CAMO.	Incomplete Work Package alert triggered	This operation sign() can not be executed on task <barcode> with ACTV status.
The Work Package is active & scheduled in CAMO.	Incomplete Work Package alert triggered	This operation sign() can not be executed on task <barcode> with ACTV status.
The Work Package is started in CAMO and all the tasks are not complete.	Incomplete Work Package alert triggered	There are 1 sub tasks that are not historical. You must complete/cancel/terminate those sub tasks first.
The Work Package end date is included in the message but not all tasks are completed in the work package.	Incomplete Work Package alert triggered	There are 1 sub tasks that are not historical. You must complete/cancel/terminate those sub tasks first.

Scenario	Result	Message
Work Package end date is included in the message but there are preview release issues in CAMO such as: • Overdue tasks/faults • Missing mandatory components • Open Fault • AOG Fault • Low Severity Open Faults • Near due faults & tasks • Uncollected job cards	Aircraft Release warning alert triggered	There were 1 fault errors, 0 task errors, 0 Config Slot errors and 0 Open Panel errors found.
Work Package end date is included in the message, but another work package is in progress at the same location.	The work package is completed but the Release To Service Boolean is set to NO	No error expected here, no alert is raised
The actual end date of the task is in the future and past the END_DATE_ COMPLETION_THRESHOLD	Incomplete Work Package alert triggered	The following Error(s) occurred: The end date you have entered exceeds the maximum allowable end date of 27-JAN-2023 17:00 IST.

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Assumptions and limitations

Following are the assumptions and limitations that apply to this integration

Limitations:

- The external maintenance system is the record for measurements, recorded tools, recorded steps, and labor sign-off. CAMO does not have this information.
- Any component changes that are recorded externally is passed through the Configuration Management Service (CMS) API to update the current configuration in CAMO.

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