IFS Aviation Maintenance

Fleet Planner Integration Guide

ICAM 26.2



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1

Configuring IFS Fleet Planner integration with Maintenix

Configuring Maintenix to interact with IFS Fleet Planner requires the following: verifying IFS Fleet Planner licensing, authentication; updating the server information; configuring the Batch Upload processes; and creating an IFS Fleet Planner tag.

Licensing and subscription

To use the IFS Fleet Planner cloud application, your organization must hold a valid license for it and a subscription.

That means the FLEET_PLANNER_API feature must have been added to your Maintenix `license.xml`. If your current license does not include this feature, contact your Maintenix representative.

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

With your subscription to the IFS Fleet Planner application, you must have received the relevant URL and credentials details.

Update the Maintenix server properties

IFS Fleet Planner integration requires update of the `mx-servers.properties` file with your account information.

Steps

1. Navigate to the `/mxi/apps/assetmanagement/resource/property/` folder where your instance of Maintenix is installed.
2. Open the `mx-servers.properties` file in a text editor.

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3. Update the following properties with your account information:

```
fleetPlanner.url={URL of the IFS Fleet Planner application}
mxSaasAuth.url={URL of Saas Auth}
maintenix.tenant=maintenix-integration
mxSaasAuth.fleetPlanner.integration.username={user name associated
 with the IFS Fleet Planner application}
```

Important If you are on an earlier release of Maintenix—prior to 8.3.2—substitute `maintenix.tenant=maintenix-integration` with `mxSaasAuth.fleetPlanner.integration.organization={an organization/tenant name associated with the IFS Fleet Planner application}`

4. Type the password associated with the user account for logging onto the IFS Fleet Planner application.

```
mxSaasAuth.fleetPlanner.integration.password={password associated
 with the IFS Fleet Planner application}
```

Note When setting the password in the text editor, the password will be encrypted when Maintenix is restarted. To have the password automatically encrypted as you enter it, skip this step and set the password by using the password encryption utility. See the *Maintenix Operator Installation and Configuration Guide* for more details.

5. Save and close the file.
6. Restart the server.

Important You must restart your server for changes to properties files to take effect.

Batch Upload jobs for IFS Fleet Planner

Batch jobs that upload data to IFS Fleet Planner are disabled by default upon the installation of Batch Upload (with your Maintenix installation). You can trigger these jobs manually from the Job page in Maintenix, or you can have them run automatically by configuring the Batch Upload for IFS Fleet Planner.

The following jobs upload data to IFS Fleet Planner:

EXT_BATCH_UPLOAD_FLEET_PLANNER_COLD_START

Exports all qualifying data, which pass the business validations, to IFS Fleet Planner.

EXT_BATCH_UPLOAD_FLEET_PLANNER_DELTA

Exports data that was created or modified after the last successful run date or time of the jobs.

Configure the Batch Upload jobs for IFS Fleet Planner

Configure the Batch Upload jobs by setting an initial date for fleet planner data, activating the jobs that you want to run automatically, and specifying relevant parameters. When a job is active, it runs at set intervals which can be configured by adjusting the REPEAT_INTERVAL attribute.

About this task

All tables that are referenced in the following steps are located in the Maintenix database.

Steps

1. After Maintenix is installed, run the cold start job EXT_BATCH_UPLOAD_FLEET_PLANNER_COLD_START.

   The LAST_SUCCESS_END_DT parameter is the date that will be used to extract all flight information on the first run of the job. After a successful run of the job, the LAST_SUCCESS_END_DT is updated in the EXT_BATCH_UPLOAD table. It becomes the timestamp of the data that was last uploaded successfully. When the delta job runs the next time, it will look only for new data or data that changed from that date onwards.

   Tip IFS Fleet Planner users can alternatively delete all operational data from Maintenix and manually run the cold start job again. This job will extract operational data without filtering the timestamp and load the CSV files into IFS Fleet Planner

2. Go to the UTL_JOB table.
3. If you want the delta batch upload jobs to run automatically, enable it by setting their ACTIVE_BOOL attribute to 1.

   Tip You can also enable the jobs through the **Jobs** page in the Maintenix UI. This page is typically accessible through the **Job** item on the **Administrator** menu.

4. Set a value for the REPEAT_INTERVAL attribute.

   REPEAT_INTERVAL specifies the time (in seconds) between consecutive runs of a job, after the first run.

   If START_TIME is provided, Maintenix applies the interval from the start of the last run. If a job runs past the time that the next run should start, Maintenix starts the next run immediately after the job completes. You should avoid such situations if possible.

If START_TIME is not provided, the interval is the time between the end of one run and the start of the next run.

For information about the attributes of Maintenix jobs, see the *Maintenix Administration Guide*.

Batch Upload Applied to the Published Plan in IFS Fleet Planner

The batch upload job, EXT_BATCH_UPLOAD_FLEET_PLANNER_COLD_START, exports all qualifying data to IFS Fleet PlannerI and is applied to the published plan.

Multiple operational data .csv files can be transferred to IFS Fleet Planner. Each new operational data set uploaded to IFS Fleet Planner is applied only to the published plan. The batch upload is not supported when no plan is published.

The operational data uploaded is now per plan. Previously only one set of operational data could be used in all the plans per organization.

IFS Fleet Planner tag

You can create the FLEET PLANNER INCLUDE tag in Maintenix to export task definitions from Maintenix to IFS Fleet Planner.

Only blocks and requirements tasks (not assigned to blocks) can be tagged. The root assembly for FLEET PLANNER INCLUDE must be an aircraft. The active task revision with this tag will be exported to IFS Fleet Planner. If you tag a single block from a block chain, it will export the whole chain.

Note the following information about task definitions exported from Maintenix:

- minimum yield: if not defined, default to 0.9 for a 90% minimum yield.
- maximum yield: not present in Maintenix, default set at 1 for a 100% maximum yield.
- SPAN: the estimated duration field defined on a provided task definition. In Maintenix this is an optional field defined in hours. It is set as blank or null if it is not provided during export. If this value is provided it is converted and rounded up to days (estimated-duration-in-hours/24 rule) before export.

If you untag an exported task definition, revisions will not be exported to IFS Fleet Planner. The task definition will still exist in IFS Fleet Planner, but it will not be updated.

For any limitations, see the related concepts below for troubleshooting information.

Create a Fleet Planner tag

The FLEET PLANNER INCLUDE tag must be created in Maintenix to export task definitions from Maintenix to IFS Fleet Planner.

Steps

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1. Go to the **Tags** tab.
2. Click **Create Tag**.
3. On the **Create Tag** page, do the following:
   - Enter a tag name.
   - Enter the tag code "FLEET PLANNER INCLUDE".
   - Enter a description for the tag.
4. Click **OK**.

The IFS Fleet Planner tag is created.

What's next

Task definitions must be manually tagged with FLEET PLANNER INCLUDE to be exported to IFS Fleet Planner

Apply a Fleet Planner tag to a task

A FLEET PLANNER INCLUDE tag must be applied to a task to export information from Maintenix to IFS Fleet Planner.

Prerequisite

You need to create the FLEET PLANNER INCLUDE tag before you can apply it to a task definition.

Steps

1. Go to the **Tags** tab.
2. Click the **FLEET PLANNER INCLUDE** tag.
3. Click the **Task Definition Search** button.

> **Tip** You can tag task definitions for requirement definitions or blocks by clicking the **Block Search** or **Requirements Search** button and following the equivalent steps listed below.

4. In the **Search Criteria** area, provide any necessary information, and click **Search**.
5. Select the check box beside the task definition and click **Tag Task Definition**.

   A browser window opens, displaying the tag codes.
6. Select the check box beside FLEET PLANNER INCLUDE and click **Tag**.

> **Tip** You can alternatively apply a tag to a task definition by navigating to the **Requirement Details** or **Block Details** page and clicking the **Tag Requirement** or **Tag Block** button respectively. Block chains can be tagged from the **Tag Details** page.

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The **Tag Details** page, task definition area, now displays the tagged task definition.

IFS Fleet Planner limitations and troubleshooting

The following limitations should be noted regarding the FLEET PLANNER INCLUDE tag, and the IFS Fleet Planner integration with Maintenix.

Delta job row changes

Limitation: The delta job only updates any changes made to existing or additional rows added; it does not reflect data removal. For example, if a task definition is exported, but the definition was revised so that it's excluded by the filtering logic of FLEET PLANNER INCLUDE and should no longer be included in IFS Fleet Planner, the row still appears with no changes.

Solution: You can delete the revised task definition by bulk deleting IFS Fleet Planner and performing a cold start data upload from Maintenix.

Task ID column changes

Limitation: In the task definition table, the task ID column extracted from Maintenix is a combination of `ASSEMBLY-CODE:CONFIG-SLOT-CODE:TASK-DEFINITION-CODE`. If you change these values the delta job may add another row in the IFS Fleet Planner table because it will be unable to find the existing task ID, and will instead add a new task definition.

Solution: You should manually delete the old record and update the information in IFS Fleet Planner for the tagged tasks updated in Maintenix.

Track ID column and track changes

Limitation: In the location capacity table, the track ID column is extracted from Maintenix based on the location code of the track. The task type column is extracted based on the work type capability defined on the track or location in Maintenix. You can override the task type values in IFS Fleet Planner for any track, but if the same track capability is modified in Maintenix the delta job will override the manual changes. If there are no changes to the track location in Maintenix, the overridden values will not update as there is no change for the delta job to send.

Solution: You should update the location capability in Maintenix instead of IFS Fleet Planner to keep both in sync.

Terminating task column changes

Limitation: In the task definition table, the terminating task column may contain a task ID where applicable. If the task definition being referenced is not defined in the table, IFS Fleet Planner displays an error when data is imported, or when you attempt to create a plan.

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Solution: Ensure a terminating task is sent to IFS Fleet Planner by applying the FLEET PLANNER INCLUDE tag.

Multi-Factor Authentication (MFA) Login

Limitation: Maintenix is not compatible with optional Multi-Factor Authentication (MFA) that can be enabled IFS Fleet Planner

Miscellaneous limitations

- The forecast model .csv file needs to be uploaded manually for each aircraft in IFS Fleet Planner.
- On the Operation Data page, Task Definition tab, task type and SPAN must be updated before creating a plan if the value is blank.
- On the Operation Data page, Location Capability tab, the task type must be updated for tracks before creating a plan if the the value is blank. You must set up location capabilities in Maintenix so the integration can properly export location capabilities to IFS Fleet Planner.

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ABOUT IFS

IFS develops and delivers enterprise software for customers around the world who manufacture and distribute goods, maintain assets, and manage service-focused operations. The industry expertise of our people and solutions, together with commitment to our customers, has made us a recognized leader and the most recommended supplier in our sector. Our team of 3,500 employees supports more than 10,000 customers world-wide from a network of local offices and through our growing ecosystem of partners.

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