Baseline Loader User Guide

IFS Cloud for Aviation Maintenance

Version 25R2

Disclaimers and Privacy Notices

This guide is intended for authorized users of IFS Cloud Aviation Maintenance (ICAM) only. All data migration activities must comply with your organization’s data governance and privacy policies. Unauthorized access or misuse of the Data Migration process may result in data corruption or security breaches and/or severe penalties.

Contents

1. Introduction

This document serves as a user guide for migrating and loading Aviation Maintenance and Supply Chain baseline data into the IFS Cloud Aviation Maintenance (ICAM) solution. It details the step-by-step process for data migration, validation, and import into final tables, ensuring compliance with data governance policies.

- Baseline Data Migration Process: Users must log in with authorized credentials, create baseline data migration jobs, and execute these jobs sequentially across data groups A to E covering various aviation maintenance categories. Data is first loaded into staging tables before validation and then imported into ICAM.

- Supporting Resources and FAQs: The document includes FAQs addressing how to create migration jobs, load CSV files onto staging tables, and validate data, supporting users through common migration tasks.

2. How to Migrate your Baseline Data into ICAM

Once your organization's legacy data has been transformed into the ICAM CSV File format, the following steps are to be performed:

- Create a Migration Job for each CSV File. Approximately 124 Migration Jobs are to be created to load the 124 CSV Baseline Data CSV files.
- Execute the Data Migration Jobs
- Load the relevant CSV Files
- Validate the recently loaded Baseline data on the Baseline Loader page
- Edit or Delete Baseline Data Errors where applicable
- Import Validated Baseline Data into ICAM in the prescribed sequence.

The ‘Baseline Data Migration & Loading - Activity Diagram’ illustrates the sequential process for migrating baseline data into ICAM.

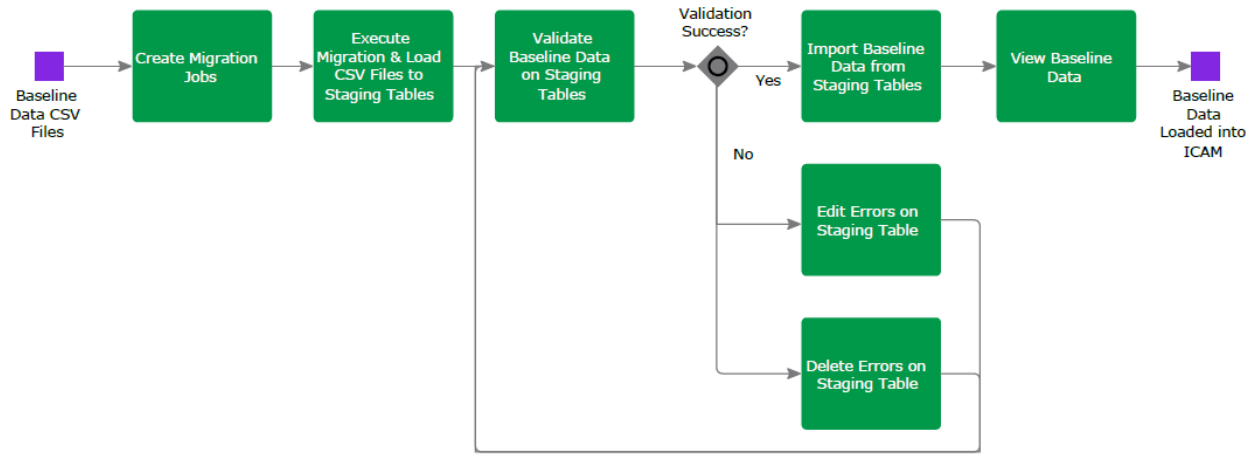


Figure 1: Baseline Data Migration & Loading – Activity Diagram

3. How to use the CSV Templates – Data Transformation

Baseline Data CSV File Templates can be found here. Create and Run a Data Migration Job. Each CSV file should have its own migration job.

On your IFS Cloud interface, navigate to the Migration Job page and create a new migration job. Populate the data fields, save, and then execute the migration job to load your Baseline Data CSV files onto the IFS Cloud Staging Tables.

For *instance, in the case of the KIT CSV, a separate migration job needs to be created specifically for loading KIT data. Similarly, each CSV file requires its own migration job. Therefore, since the Baseline Loader includes 124 staging tables, there will be 124 corresponding CSV files and 124 migration jobs to be created.*

Learn more about creating migration jobs here Data Management – Technical Documentation for IFS Cloud

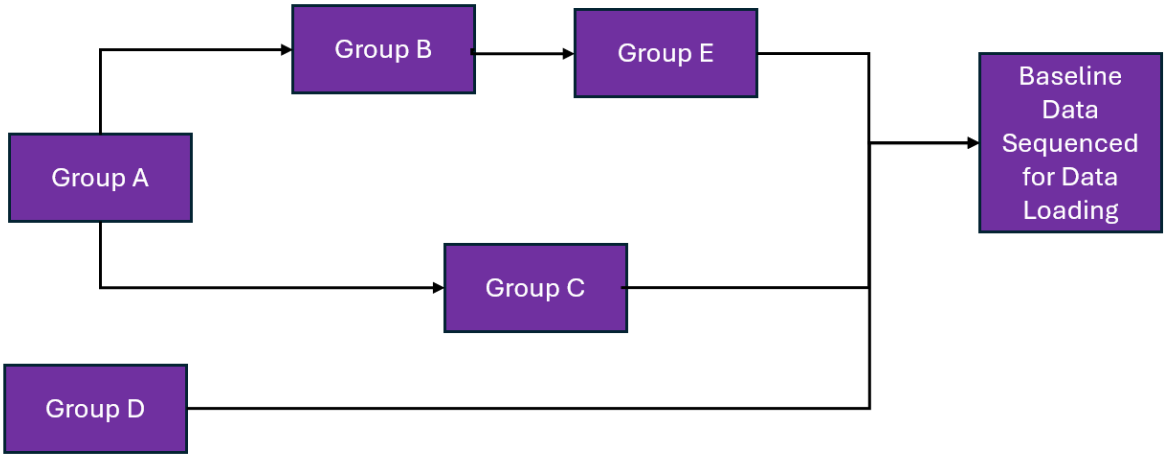
Refer FNDMIG Method and Target View Documentation here

4. Sequential Execution of Data Migration Jobs - Baseline Data Groups (A-E)

The accompanying Table 1 – Baseline Data Groups and Figure 2 (see below) further break down the groups involved in the migration process and illustrates dependencies between the data groups (A-F). This process ensures that all necessary baseline data is systematically prepared and validated before being fully loaded into ICAM.

	Group A	**Group B**	**Group C**	**Group D**	**Group E**
	Materials & Engineering Management	*Maintenance Programs*	*Materials*	*System*	*Scheduling*
1	Finance	IETM	Materials	Departments	Tail Specific Scheduling
2	Manufacturers	Job Card Definitions	Vendors	PO Authorization Flows	
3	Assembly Information	Component Job Cards	Purchase Agreements	Users	
4	Sub-assembly	Requirements	Repair Agreements	License Definition	
5	Part Definitions & Configuration	Component Requirements	Exchange Agreements	User Licenses	
6	Tools	Weight and Balance Impact	Stock Header		
7	Common Hardware	Component Reference Documents	Stock Details		
8	Kits	Blocks	Stock Part Assignment		
9	Sensitive Systems & Parts	Task Links	Stock Allocation		
10	Part Incompatibility	Task Incompatibilities	Stock Reorder Quantity		
11	Part Advisory	Maintenance Programs	Locations		
12	Usage Definitions	Faults	Owners		
13	Calculated Parameters				

(Table 1 - Baseline Data Groups)



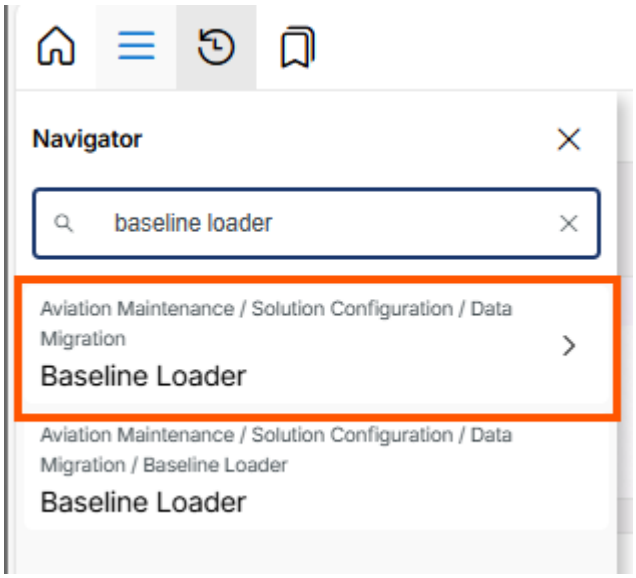
(Figure 2: Data Groups Dependencies and Load Sequence)

Please note that Data Groups are to be loaded in the prescribed sequence (i.e. A - E) and in the ranked sequence within subject areas to avoid errors.

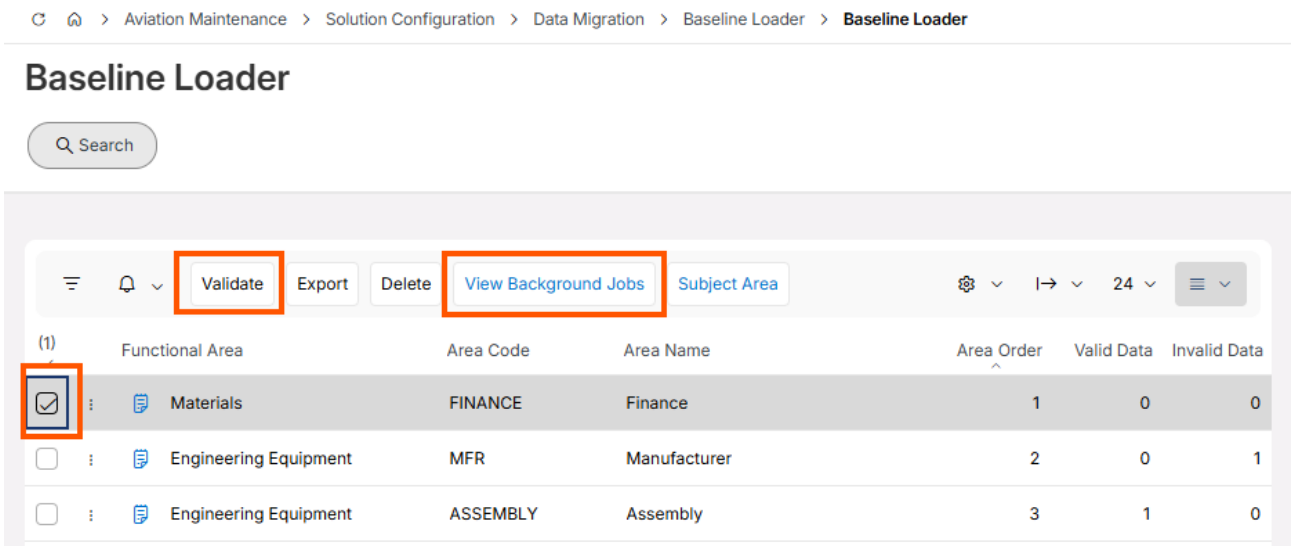
5. Validate your Baseline Data

Once the migration job is successfully executed, your baseline data will be loaded onto the IFS Cloud Staging Tables.

In the Aviation Maintenance Section, navigate to the ‘Baseline Loader’ Page to validate your recently loaded Baseline Data records.



To validate your baseline data, select the subject area and click on Validate to execute the data validation process. You may also click on ‘View Background Jobs’ to inspect the current migration job status for validation.



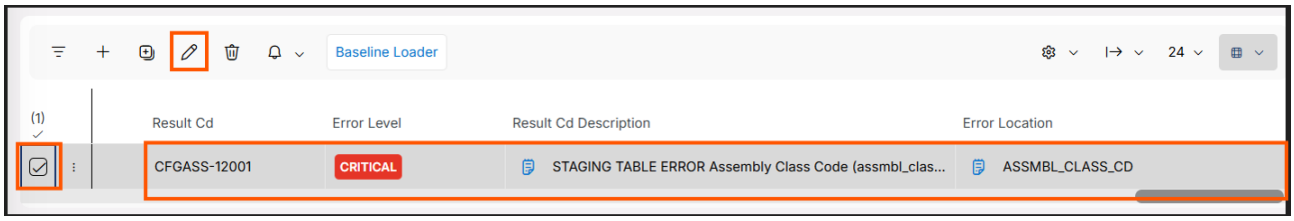
Upon validation, the Baseline Loader tool will provide the status of the validated records as illustrated below. Successfully validated data will display a ‘Success’ badge, while erroneous data

will display an 'Error' badge. In the case of missing data, the Baseline Loader tool will display a status badge of 'No Data'.

Functional Area	Area Code	Area Name	Area Order	Valid Data	Invalid Data	Last Validation Status	Validation
Materials	FINANCE	Finance	1	0	0	NO DATA	Yes
Engineering Equipment	MFR	Manufacturer	2	0	1	ERROR	Yes
Engineering Equipment	ASSEMBLY	Assembly	3	1	0	SUCCESS	Yes

Error Information is displayed on the subject area page of each record.

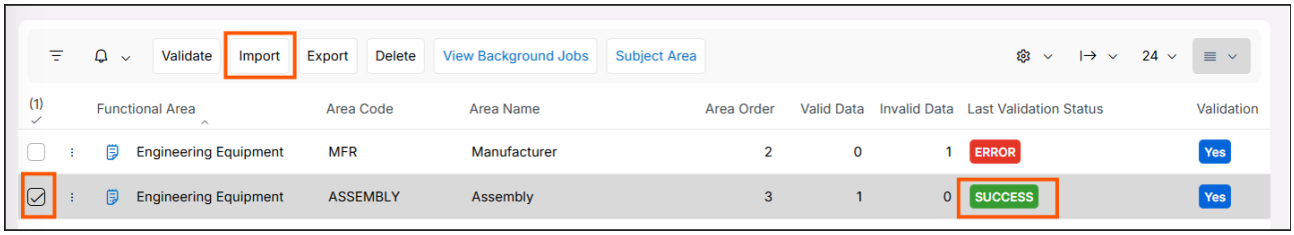
You may edit or delete any data validation errors to import your validated baseline data onto your ICAM Solution.



The RESULT_CD column appears at the end of every staging table. This column is populated when the tables have been validated by the Baseline Loader Tool and is not to be populated beforehand. Descriptions of the error codes which appear in these columns are provided here.

6. Import your Baseline Data into your ICAM Solution

Once the recently loaded baseline data files have been validated, you may begin importing the valid baseline data files into your ICAM Solution by selecting the successfully validated data record and clicking on 'Import' as illustrated below.



Please note that only 'Validated' data can be imported and that the Import function is not available for use in the case of Invalid Baseline Data.

You have now successfully migrated your legacy baseline data into your IFS Cloud Aviation Maintenance (ICAM) Solution.

7. About ICAM Baseline Loader Data Structure

Data Structure in the Baseline Loader

The Baseline Loader organizes data in a hierarchical model to ensure dependency rules are respected:

Functional Areas

A Functional Area is a high-level grouping of related business data. Each functional area represents a key domain in the aircraft configuration process. They are sequenced logically, so data from one area is available when required by another (e.g, Parts must be loaded before Maintenance Programs can reference them).

Subject Areas

Within each functional area, there are Subject Areas. A subject area represents a more detailed collection of configuration data.

Example: In the Assemblies Subject Area, staging tables include Assembly List and ATA Systems.

Subject areas ensure that related datasets are validated and imported together, reducing the chance of broken references or incomplete records.

Staging Tables

At the most detailed level are the Staging Tables. These are the tables where records are uploaded, reviewed, validated, and corrected. Each subject area is made up of one or more data tables.

Users can add, edit, or delete records directly within these tables, or bulk load data using pre-defined templates via Migration Jobs.

Validation messages are displayed at the record (row) level, so errors can be corrected precisely before re-validation.

Load Sequence and Dependencies

The Baseline Loader is structured around logical groupings of aircraft configuration data known as Functional Area Groups (Groups A to E). These groups reflect the business and technical dependencies between different types of setup data. Understanding each group's purpose and its position in the loading sequence is essential for ensuring data integrity and functional readiness.

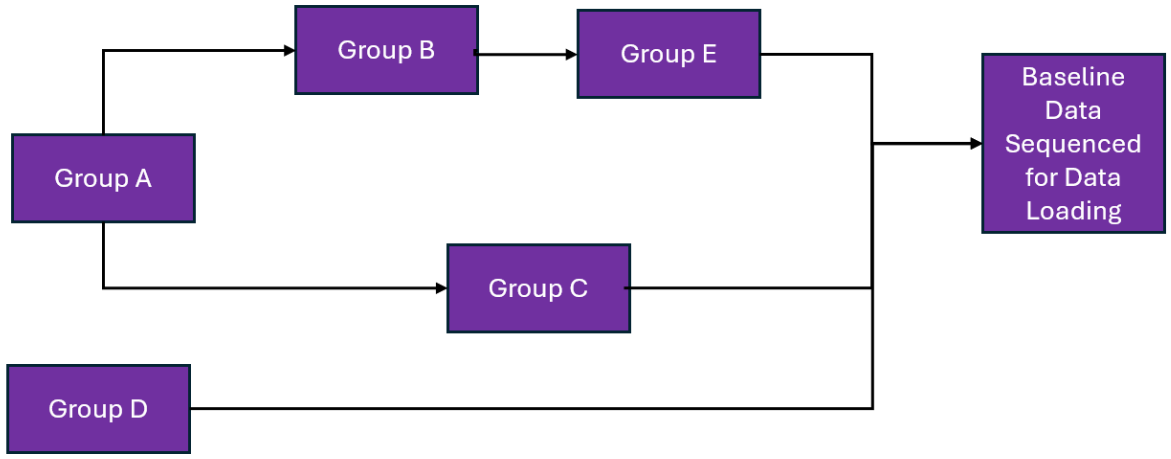


Figure 2: Data Groups Dependencies and Load Sequence

*Group A – Materials & Engineering Equipment (Must be **loaded first**)*
Purpose: Establish core reference data that is foundational for all other areas.

These elements form the building blocks of all other configurations. Maintenance programs, tasks, and even locations reference parts and assemblies.

Group B – Maintenance Programs

Purpose: Define the maintenance logic and programs applied to the aircraft and its parts.

Depends on: Group A (Parts must exist before assigning tasks to them)

Group C – Materials Logistics and Locations & Owners

Material Logistics
Purpose: Set up supporting logistics for procurement and storage.

Depends on: Group A

Can be loaded in parallel with Group B

Locations & Owners
Purpose: Define where operations and logistics happen.

Can be loaded independently even though the rest of Group C subject areas are dependent on Group A.

Group D – Organizational Structure

Purpose: Configure system-level references and user environments.

Depends on: Group C (e.g., departments reference physical locations)

Group E - Scheduling (Loaded last)
Purpose: Tail-specific setup loaded once aircraft records, and all maintenance logic are in place.

Must follow: Group B (relies on the full maintenance setup)

This enforced sequence prevents broken references (e.g, a maintenance program pointing to a part that hasn't yet been defined).

What Users Should Know

- Always follow the prescribed sequence (Groups A–E).
- Begin with foundational reference data (Parts, Assemblies, Vendors).
- Validate often; imports are blocked until errors are fixed.
- After import, confirm data in live IFS Cloud pages.

CSV Columns to Staging Tables Information

- Refer to the CSV templates for data format specifications here.
- Talk to your IFS Data Migration Consultant for more information about Staging Tables.

8. Error Information

There are three main Error Severity Codes for Baseline Data Validating purposes. They are as follows:

Error Severity Code	Error Severity Description	Impact
Critical	Critical' means that there is a data loading error because of erroneous data. *Example - serial_no_oem cannot be NULL or consist entirely of spaces*	Validation Failed and Data cannot be imported.
Dependency	'Dependency' means that there is a data loading error because some data points cannot be loaded until dependent data is loaded. *Example - Cannot load record because the related parent assembly record in C_RI_INVENTORY_SUB is invalid*	Validation failed and Data cannot be imported
Warning	Warning' means that there is a data loading error because of some inconsistencies within the data set *Example - Manufactured Date must be provided because this part has at least one task definition that is scheduled from the manufactured date*	Please note the warning. Data can be imported in this state.

A detailed breakdown of all known errors can be found here.

9. FAQs

What is ICAM Data Migration?

A: ICAM Data Migration is the process of transferring aviation maintenance baseline and actuals data from legacy systems or other sources into the IFS Cloud Aviation Maintenance (ICAM) solution. This ensures that all operational data is available and usable within the ICAM environment.

Who is authorized to perform data migration activities?

A: Only users who have been granted the necessary permissions within your organization and the ICAM platform are authorized to perform data migration tasks. Always consult with your IT administrator or data governance team for access rights.

Where do I start the data migration process?

A: Begin by logging in to ICAM, then navigate to the Data Migration Jobs page to create and manage your migration jobs for both baseline and actuals data. Refer to the relevant sections in this guide for detailed, step-by-step instructions.

How can I validate the data loaded to staging tables?

A: After loading data to the staging tables, use the validation tools provided within ICAM to check for errors or inconsistencies. You may edit or delete erroneous records as needed before importing the data into the production tables.

What should I do if I encounter errors during migration?

A: Review the error logs or messages generated during the validation process. Common issues include data format mismatches or missing required fields. Refer to the troubleshooting section of this guide or contact your system administrator for help.

How do I ensure data privacy and compliance during migration?

A: Always follow your organization's data governance and privacy policies. Ensure that only authorized personnel have access to sensitive data and use secure methods for data transfer and storage throughout the migration process.

Who should I contact for support with ICAM data migration?

A: For technical support, reach out to your organization's IT support team or the designated ICAM administrator. For questions about data governance or compliance, consult your data protection officer or compliance manager.

10. Related Content

- Data Migration Lifecycle
- Data Management - Technical Documentation For IFS Cloud
- Actuals Loader User Guide