IFS Aviation Maintenance

Baseline Loader User Guide

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1 Overview of data loading

This guide is intended for Business Architects and Analysts who are responsible or involved in the migration of data from legacy systems to the CAMO database.

Data loading consists of migrating the data from your organization's legacy systems to the database, so that personnel in various departments can use CAMO to plan and track the maintenance of your aviation assets.

To complete data loading, you must load your baseline data first, and then load your actuals data:

- **Baseline data** refers to all the configuration data and reusable template data for aircraft, other types of assets, maintenance tasks, and materials management that are required for CAMO and all integrations of CAMO with external systems to work properly.
- **Actuals data** is the information that relates to a specific inventory item; its serial number, manufactured date, and accumulated usage; the maintenance tasks that have been completed on the item and the tasks that are upcoming; the deferred faults that exist on the inventory; the purchase orders for inventory items; and so on.

Data loading tools are included to assist in both of these activities. The data loading tools are the Baseline Loader for loading baseline data, and the Actuals Loader for loading actuals data. Both tools use similar approaches of loading data from temporary tables into the CAMO database. These temporary tables are called staging tables or collection tables Actuals Loader.

When you install Baseline Loader or Actuals Loader, the staging (collection) tables are automatically created in the database, as well as the processing tables that both tools use during the validation and import processes.

Loading your baseline data

The CAMO Baseline Loader provides analysts with data format specifications for the baseline, and software tools to support the roll-out of your organization's baseline data.

You load baseline data using the Baseline Loader Web interface. An alternative method is also provided, which lets you import some types of baseline data from comma-separated-values (CSV) files by using scripts.

Because of inherent dependencies between different pieces of data, you must load the different types of data that make up your baseline in a specific order. The types of data to load are called subject areas. The subject areas are organized in lettered groups, groups A through F. You must load the data for each group in the order specified in this guide. Also, within each group, you must load the data for the different subject areas in a prescribed sequence. For example in group A, you must import the list of manufacturers (one subject area) before you can import data about a part (another subject area of the same group) that contains the name of the part manufacturer.

Baseline Loader includes additional scripts you can use to create replacement task definitions for assets that require such tasks (sub-assemblies and tracked parts) and to add new material storage locations to existing airports. Also offered is functionality to extract and export baseline data from the database.

The Baseline Loader data loading tools are provided for the initial loading of data required to set up the baseline. You can also use the Baseline Loader data loading tools after the initial data load, for example, to update baseline data related to procurement agreements and stock, and to add store and bin locations.

At a high level, the process for loading baseline data is as follows:

1. Verify that the software requirements and prerequisite conditions are met.
2. Install the Data Loader tools in your database.
3. Populate the Baseline Loader staging tables with the baseline data.

   Based on the CAMO solution you are implementing, you must add the relevant baseline data to the staging tables. For some types of data records, you can put the required data into CSV files instead of populating staging tables.
4. Access the Baseline Loader interface.
5. Validate the data in the staging tables before loading the data.

   This is an iterative process; you validate the data in the staging tables, resolve the errors in the data, and validate again. You repeat the process until the validation succeeds.
6. Import the successfully validated data.

   You import the data for the different subject areas and functional areas in a specific sequential order. For data in staging tables, you use the Baseline Loader interface to import the data. For data that you can load from CSV files, you use loading scripts provided with Baseline Loader.

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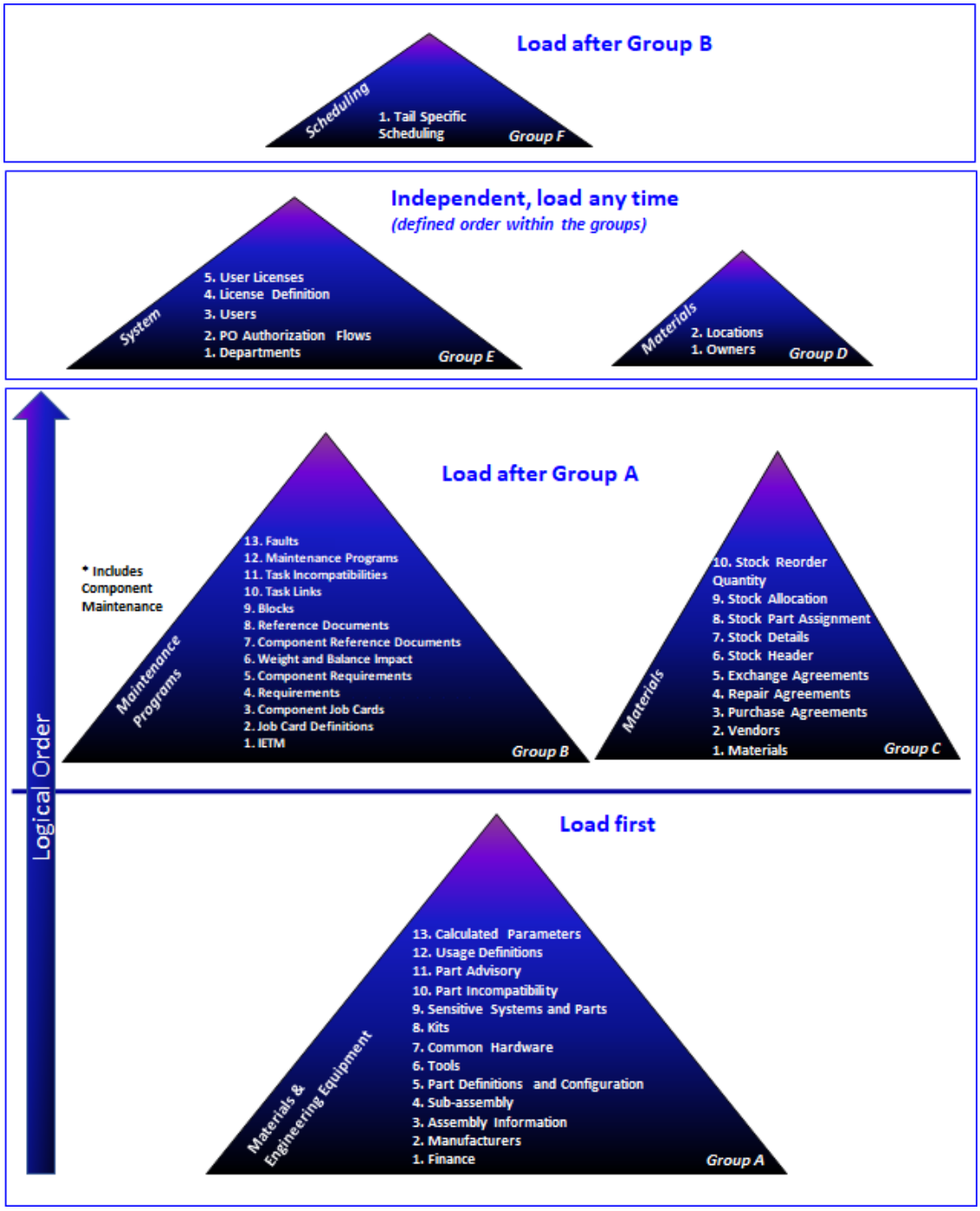
Baseline data subject areas and dependencies

This chapter describes the order in which you must load the baseline data that pertains to the different subject areas of CAMO. The order is required because of dependencies between the different types of records in the database. For example, you must import the list of vendors from which you procure parts and supplies before you can import information about purchase agreements your organization has set up with specific vendors.

As shown in the image below, the baseline data records to load are categorized by lettered groups (Groups A to E). The data for group A must be loaded before the data for group B. Each lettered group is further broken down into the subject areas of CAMO, which must also be loaded in a specific order. For example, within group A, you must load the subject area Assembly Information —which has the order of 3 in the group—before the subject area Sub-assembly—which has the order of 4.

The following are the dependencies between the various functional area groups:

- Groups B and C both depend on group A; therefore, the data for group A must be loaded before the data for group B or C. There is no dependency between groups B and C, which means you can load B and then C, or load C first and then B.
- Groups D and E are independent from the other groups, but group E depends on group D. For example, departments are loaded as part of group E, and they require that airports and other locations, which are loaded as part of group D, already exist in the database. You can load data for groups D and E into the database at any time, as long as group D is loaded before group E.



The subsections in this chapter list the subject areas in each group, in the order in which you must load them, and provides additional details that are specific to each group.

For more detailed information, such as the names of the staging tables used to prepare the data, and the format the data must have in the staging tables, consult the *Baseline Loader Data Format Specifications* documents. This is a series of documents that describe the validation rules, and the data format specifications enforced by Baseline Loader. The *Baseline Loader Data*

Format Specifications PDF documents are in the `<database_install>\dataload\docs\BaselineLoader-DataFormatSpec` folder.

Group A: Materials and Engineering equipment data

Group A contains the first subject areas to load. Group A consists of finance-related baseline data, and all data required to define the baseline of your assets, tools, and the hardware used on several types of assets.

Group A Subject Areas

Group A		
Functional area	**Order**	**Subject area**
Materials	1	Finance
Engineering Equipment	2	Manufacturers
	3	Assembly Information
	4	Sub-assembly
	5	Part Definitions and Configuration
	6	Tools
	7	Common Hardware
	8	Kits
	9	Sensitive Systems and Parts
	10	Part Incompatibility
	11	Part Advisory
	12	Usage Definitions
	13	Calculated Parameters

Group B: Engineering Maintenance data

Group B contains the subject areas that make up the baseline of the maintenance work to perform to keep your assets operational; this includes the different types of task definitions, the

links between the task definitions, the technical documentation relevant to task definitions, the maintenance programs, and the fault definitions.

You can use a Baseline Loader script to create replacement requirements for all sub-assembly and tracked parts that do not have one. This is indicated in the following table.

Group B Subject Areas

Group B		
Functional area	**Order**	**Subject area**
Engineering Maintenance	1	IETM
	2	Job Card Definitions
	3	Component Job Cards
	4	Requirements
	5	Component Requirements
	6	Weight and Balance Impact
	7	Component Reference Documents [needs Group E first]
	8	Reference Documents
	9	Blocks
	10	Task Links
	11	Task Incompatibilities
	12	Maintenance Programs
	13	Faults
	14	Deferral References

Group C: Materials data

Some functionality in the Materials subject area of group C will be deprecated in future releases of Baseline Loader. Only the functionality to update part details, by using the C_PART_NO_MISC_INFO staging table, will remain. Therefore, it is advisable to use the new functionality, starting from the Stock Header to the Stock Reorder Quantity subject areas in the following table, for loading stock-related data, and use Materials only to update part information.

If you are loading baseline data from a Windows system, you can use an alternative method for loading the data for the subject areas that have an asterisk in the table below. The alternative method does not require you to put the data in staging tables.

Group C Subject Areas

Group C		
Functional area	**Order**	**Subject area**
Materials	1	Materials
	2	Vendors
	3	Purchase Agreements
	4	Repair Agreements
	5	Exchange Agreements
	6	Stock Header
	7	Stock Details
	8	Stock Part Assignment
	9	Stock Allocation
	10	Stock Reorder Quantity

Group D: Materials data part 2

Group D data does not have any dependency on the data of groups A, B, or C. Therefore, you can load the data for subject areas in group D at any time, as long as you load group D before group E.

Group D Subject Areas

Group D		
Functional area	**Order**	**Subject area**
Materials	1	Owners
	2	Locations

Group E: System data

The subject areas in group E only have dependencies to the subject areas in group D. Therefore, you can load group E data at any time as long as group D data is already loaded.

Group E Subject Areas

Group E		
Functional area	**Order**	**Subject area**
System	1	Departments
	2	PO Authorization Flows
	3	Users
	4	License Definitions
	5	User Licenses

Group F: Scheduling

Group F has dependents in Group B so it must be loaded after Group B and after the aircraft inventory has been loaded on the actuals side.

Group F: Scheduling

Group F		
Functional area	**Order**	**Subject area**
Scheduling	1	Tail Specific Scheduling

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Preparing and validating the data

This section provides information about preparing the baseline data in the staging tables, validating the data, and investigating and resolving errors prior to importing the data into the CAMO database.

Populating the staging tables

Before starting the migration of your baseline data from legacy systems to CAMO, the data design for your baseline data must be completed, and documented in one or several baseline *Solution Area Design Document(s)*. The baseline SFDDs determine the data required for your solution, and identify how this data must be modeled for loading into the database to meet your requirements.

When you have the data design finalized, you populate the Baseline Loader staging tables with the baseline data that is required for your solution. The name of the Baseline Loader staging tables begins with either C_ or BL_ (the tables whose name begins with C_PROC or BL_PROC are processing tables, not staging tables). You can use any of the following methods for populating the Baseline Loader staging tables:

- Oracle DMP file (optimal)
- CSV files
- Excel spreadsheet
- SQL Insert statements
- Direct edit

Tip

For some of the types of records related to the materials functional area (*Group C: Materials data*), you have an alternative method for loading the records. This method consists of putting the data in comma-separated values (CSV) files and validating and importing the data using scripts rather than using the Baseline Loader application. This alternative eliminates the need to put that data into staging tables. For more information, see *Importing stock data and materials agreements using CSV files*. For all other types of baseline data records, you must load the data into staging tables.

The *Baseline Loader Data Format Specifications* is a series of documents included with Baseline Loader, that describe the generic format of the baseline data that is required in each of the staging tables for the different subject areas. The data format specification documents describe the validation rules, and the data format specifications enforced by the Baseline Loader. The Baseline Loader Data Format Specifications PDF documents are in the *<database_install>\dataload\docs \BaselineLoader-DataFormatSpec* folder.

Validating the input data in the staging tables

This section explains how to validate data you have put in staging tables and that you want to import using the Baseline Loader. If you are importing some records directly from CSV files using scripts, the validation of the data is performed by the scripts as explained in *Importing stock data and materials agreements using CSV files*.

Before importing data from the staging tables or from CSV files into the database tables, you must validate the staging data and address errors. This is an iterative process in which you validate the data, resolve the errors that are reported, validate again, address any remaining errors, and so on, until you have clean data. The Baseline Loader also validates the data automatically when you import data. However, it is advisable to perform validation separately prior to importing the data.

During validation, most areas of Baseline Loader indicate result codes in the RESULT_CD columns in the staging tables for each row of data submitted for the subject area. A few areas do not have RESULT_CD columns in the staging tables. These areas support multi-error handling where multiple errors can be reported simultaneously for each record in the staging table. These areas record their result codes in the table BL_PROC_RESULT. The error message corresponding to the result code can be looked up in the table DL_REF_MESSAGE. The error messages indicate the reason why a record failed validation. For example, a data validation can fail because a staging table contains a null value in a column that does not allow it, or has a value that already exists in the database when it should be unique. Error codes are listed in the *Baseline Loader Appendix B: Error Codes document in the -dataload\docs\BaselineLoader- DataFormatSpec* folder.

Most areas of Baseline Loader require all errors to be resolved before importing the data. A few areas support partial loading, where the Baseline Loader loads the valid records into the database tables, but rejects any invalid records. Where this functionality is available, an input argument "aib_allornone" is present in the validation procedure.

Validating input using the user interface

You must validate the subject areas in the sequential order in which they appear in the **Validate/Import Table** drop-down list on the baseline loader page.

Steps

1. Access the **Baseline Loader** page at `http://<maintenix server>/maintenix/web/configutils/ConfiguratorMain.jsp`.
2. Click the **Validate/Import Table** drop-down list.

   The list of sequentially ordered subject areas of Baseline Loader staging tables appears.
3. Click the desired subject area, and then click **Validate Input**.
   Baseline Loader validates the data in the staging tables of the selected subject area, and adds a message to the **Log** tab indicating the subject area that was validated, the date and time of the validation, and the outcome.

About the message log

The Log tab on the Baseline Loader page conveys the success or failure of the validation and import, of the staging table for a chosen subject area. Messages are cumulative; as you validate or import more subject areas, the newer messages are added to the top of the list.

If the message indicates success, you can import the data and move to the next subject area. Examples of success messages include:

- Financial staging area successfully validated.
- Financial staging area successfully imported.

If the message indicates failure, you must resolve the validation errors in the data, validate again until the data is clean, and import the data before proceeding to the next subject area. An example of a failure message is:

```
Financial staging area FAILED validation
```

Deleting messages

Steps

On the **Log** tab of the **Baseline Loader** page, select the check box next to the message(s) you want to delete, and click **Delete Selected**.

The selected message(s) are no longer on the list.

Baseline Loader Error Report

The Baseline Loader Error Report conveys the following information about the Baseline Loader staging tables for the subject area you select:

- **Staging Table**: the name of each of the staging tables in the selected subject area.
- **Result CD**: the Baseline Loader error message code, or one of the following values: TOTAL, or PASSED VALIDATION.
- **Number of Rows**: the number of rows based on the context; TOTAL or by Result CD.
- **Percentage**: the percentage of rows based on the TOTAL to which the Result CD applies.
- **Message Severity**: the severity of the error message.
- **Message Name**: a brief description of the error message.
- **Message Description**: a detailed description of the error message.

Viewing an error report

Steps

1. Access the **Baseline Loader** page at `http://<maintenix server>/maintenix/web/configutils/ConfiguratorMain.jsp`.
2. Click the **Validate/Import Table** drop-down list.
   A list of subject areas of the Baseline Loader staging tables appears.
3. Click the desired subject area, and click **View Report**.
   The **Baseline Loader Error Report** page appears.

Exporting a report to Excel

Steps

On the **Baseline Loader Error Report** page, click the **Export to Excel** icon in the upper-left corner of the report.
The Baseline Loader error report opens in Excel.

Validating input data using packages

You can also validate the subject areas using packages. The following sections list the procedures available for validating each subject area.

Group A: Materials and Engineering equipment data

Finance data

Baseline tables:	• c_fnc_account • c_fnc_account_update • c_fnc_tcode
Package:	FINANCE_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Manufacturers data

Baseline tables:	c_eqp_manufact_map
Package:	MANUFACT_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Assembly data

Baseline tables:	• c_assmbl_list • c_ata_sys
Package:	ASSEMBLY_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Sub-assembly data

Baseline tables:	c_acft_subassy
Package:	SUBASSEMBLY_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Part Definitions and Configuration data

Baseline tables:	• c_dyn_part_config • c_part_config
Package:	PART_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Tools data

Baseline tables:	c_tool_def
Package:	TOOL_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Common Hardware data

Baseline tables:	c_comhw_def
Package:	COMHW_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Kits data

Baseline tables:	• bl_kit • bl_kit_content • bl_install_kit
Package:	BL_KIT_IMPORT
Procedure:	VALIDATE

Input arguments:	• aiv_exist_in_mx
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Sensitive Systems and Parts data

Baseline tables:	• bl_sensitivity_sys • bl_sensitivity_pg
Package:	BL_SENSITIVITY_IMPORT
Procedure:	VALIDATE

Input arguments:	• aiv_exist_in_mx
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Part Incompatibility data

Baseline tables:	bl_pg_part_incompat
Package:	BL_PART_INCOMPAT_IMPORT
Procedure:	VALIDATE

Input arguments:	• aiv_exist_in_mx
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Part Advisory data

Baseline tables:	bl_part_advisory
Package:	BL_PART_ADVISORY_IMPORT
Procedure:	VALIDATE

Input arguments:	• aiv_exist_in_mx
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Usage Definitions data

Baseline tables:	• c_dyn_usage_def • c_std_usage_def
Package:	USAGE_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Calculated Parameters data

Baseline tables:	• bl_calc • bl_calc_input • bl_calc_part_input
Package:	BL_CALC_IMPORT
Procedure:	VALIDATE

Input arguments:	• aiv_exist_in_mx
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Group B: Engineering Maintenance data

IETM data

Baseline tables:	• c_ietm_ietm • c_ietm_topic_attach • c_ietm_topic_tech_ref
Package:	IETM_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Job Card Definitions data

Baseline tables:	• c_assmbl_panel • c_assmbl_zone • c_jic • c_jic_ietm_topic • c_jic_labor • c_jic_part • c_jic_tool • c_jic_step
Package:	JIC_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Component Job Cards data

Baseline tables:	• c_comp_jic • c_comp_jic_assigned_part • c_comp_jic_labour • c_comp_jic_comhw • c_comp_jic_tool • c_comp_jic_measurement • c_comp_jic_step • c_comp_jic_ietm
Package:	C_COMP_JIC_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Requirements data

Baseline tables:	• c_req • c_req_dynamic_deadline • c_req_dynamic_part_deadline • c_req_ietm_topic • c_req_jic • c_req_part_transform • c_req_repl • c_req_standard_deadline • c_req_advisory • c_req_impact • c_req_part • c_req_tool • c_req_labour • c_req_step • c_req_step_skill
Package:	REQ_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Component Requirements data

Baseline tables:	• c_comp_req • c_comp_req_assigned_part • c_comp_req_jic • c_comp_req_dynamic_deadline • c_comp_req_standard_deadline • c_comp_req_dyn_part_deadline • c_comp_req_ietm task_task_ietm • c_comp_req_advisory task_advisory • c_comp_req_impact task_impact
Package:	C_COMP_REQ_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Weight and Balance Impact data

Baseline tables:	bl_weight_balance
Package:	BL_WEIGHT_BALANCE_IMPORT
Procedure:	VALIDATE

Input arguments:	• aiv_exist_in_mx
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Component Reference Documents data

Baseline tables:	• c_comp_ref • c_comp_ref_assigned_part • c_comp_ref_task_link • c_comp_ref_dynamic_deadline
Package:	C_COMP_REF_DOC_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Reference Documents data

Baseline tables:	• c_ref • c_ref_task_link • c_ref_standard_deadline • c_ref_dynamic_deadline
Package:	C_REF_DOCUMENT_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Blocks data

Baseline tables:	• c_block • c_block_chain_task_details • c_block_dynamic_deadline • c_block_dynamic_part_deadline • c_block_req • c_block_standard_deadline
Package:	BLOCK_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Task Links data

Baseline tables:	c_task_link
Package:	TASK_LINK_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Maintenance Programs data

Baseline tables:	• c_maint_prgm • c_maint_prgm_task
Package:	MAINT_PRGM_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Faults data

Baseline tables:	c_fail_mode
Package:	FAULT_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Deferral References data

Baseline tables:	• bl_fail_defer_ref • bl_fail_defer_conflict • bl_fail_defer_rel • bl_fail_defer_insp • bl_fail_defer_dead • bl_fail_defer_cap_level
Package:	BL_DEFERRAL_REFERENCES_IMPORT
Procedure:	VALIDATE

Input arguments:	• aiv_exist_in_mx
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Group C: Materials data

Materials data

Baseline tables:	• c_bin_part • c_part_no_misc_info • c_stock_loc • c_stock_no
Package:	MATERIALS_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Vendors data

Baseline tables:	• c_vendor • c_org_org_vendor • c_org_vendor_service_type • c_vendor_account
Package:	VENDOR_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Purchase Agreement data

Baseline tables:	c_vendor_purchase
Package:	C_VENDOR_PURCHASE_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Repair Agreement data

Baseline tables:	c_vendor_repair
Package:	C_VENDOR_REPAIR_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Exchange Agreement data

Baseline tables:	c_vendor_exchange
Package:	C_VENDOR_EXCHG_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Stock Header data

Baseline tables:	c_stock_header
Package:	C_STOCK_HEADER_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Stock Details data

Baseline tables:	c_stock_attr
Package:	C_STOCK_DETAIL_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Stock Part Assignment data

Baseline tables:	c_assign_parts_to_stock
Package:	C_STOCK_PART_ASGN_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Stock Allocation data

Baseline tables:	c_stock_level_alloc
Package:	C_STOCK_LVL_ALLOC_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Stock Reorder Quantity data

Baseline tables:	c_stock_level_attr
Package:	C_STOCK_LVL_ATTR_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Group D: Materials data part 2

Owners data

Baseline tables:	c_owner
Package:	OWNER_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Locations data

Baseline tables:	• c_loc_airport • c_loc_bin • c_loc_dock • c_loc_repair
Package:	LOCATION_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Group E: System data

Departments data

Baseline tables:	• c_dept • c_airport_dept
Package:	DEPT_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

PO Authorization Flow data

Baseline tables:	• c_ref_flow • c_ref_flow_level
Package:	PO_FLOW_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Users data

Baseline tables:	c_org_hr
Package:	USER_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

License Definitions data

Baseline tables:	• c_lic_defn • c_lic_prereq
Package:	LICDEFN_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

User Licenses data

Baseline tables:	c_org_hr_lic
Package:	USRLIC_IMPORT
Procedure:	VALIDATE

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Group F: Scheduling

Scheduling data

Baseline tables:	bl_tail_spec_scheduling
Package:	BL_TAIL_SCHEDULING_IMPORT
Procedure:	VALIDATE

Input arguments:	• aiv_exist_in_mx
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. All records must pass validation before they can be loaded.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Error resolution

To facilitate error resolution, the Baseline Loader validates data by subject area, and updates the RESULT_CD field of the invalid row in the staging table (or in BL_PROC_RESULT where multi-error handling is supported) with the error message code.

There are two mechanisms for recording the error codes, based on whether a Baseline Loader staging table uses a normalized record layout or a de-normalized record layout:

- In staging tables that use a simple, normalized record layout, each input record represents a single logical record in the database. An example of this type of input record is the C_EQP_MANUFACT_MAP table. Every record in this input table represents a single manufacturer. Invalid records have an error code in their RESULT_CD column.
- In staging tables that use a de-normalized input record layout, one record can create many logical records in the database. For example, for the part definitions and configuration subject area, the staging table C_PART_CONFIG identifies the primary part, and up to 19 alternate parts that have the same form, the same fit, and the same function.

Recording errors for this type of table uses an error processing table that normalizes the data, and identifies errors at a more granular level—that of a single logical record.

For example, each of the 1 to 20 parts identified in the single input row of the C_PART_CONFIG staging table has a row created in the C_PROC_PARTS_CONFIG_PART processing table. The invalid parts have an error code identifying the error. The value in the PART_ORD column corresponds to the PN(x) number in C_PART_CONFIG.

The error codes and their corresponding error messages are defined in the DL_REF_MESSAGE table.

The processing tables are created automatically in your database when you install the Baseline Loader. The processing table names begin with either C_PROC or BL_PROC.

The following table identifies the de-normalized staging tables and their corresponding error processing tables.

Error Processing Tables for De-normalized Staging Tables

De-normalized staging table	Error processing table
C_ASSMBL_LIST	C_PROC_ASSMBL_LIST_PART
C_COMP_REQ_STANDARD_DEADLINE	C_PROC_COMP_REQ_DEADLINE
C_COMP_REF_STANDARD_DEADLINE	C_PROC_COMP_REF_DEADLINE
C_REF_STANDARD_DEADLINE	C_PROC_REF_DEADLINE
C_BLOCK_STANDARD_DEADLINE	C_PROC_BLOCK_DEADLINE
C_REQ_STANDARD_DEADLINE	C_PROC_REQ_DEADLINE
C_AIRPORT_DEPT	C_PROC_AIRPORT_DEPT
C_STD_USAGE_DEF	C_PROC_USAGE_DEF

4

Importing baseline data

This chapter describes how to do the following:

- Import baseline data using the Baseline Loader.
- Create replacement task definitions for all inventory for which they are required but are non-existent.
- Import stock and materials agreement data using the comma-separated values files (CSV) alternative method.
- Load additional data into the baseline after the initial data load.
- Add material storage locations to existing airports.

Importing the baseline data using Baseline Loader

About this task

You must import baseline data in the prescribed order of the subject areas because of inherent data dependencies. See *Baseline data subject areas and dependencies*.

Important Each subject area must be loaded error free before you can proceed to the next subject area. It is preferable to validate the data in the staging tables, address any errors, and repeat validation until it is error-free before importing the data. If a subject area fails validation, the import fails as well. For more information, see *Validating the input data in the staging tables*.

Steps

1. Access the **Baseline Loader** page at `http://<maintenix server>/maintenix/web/configutils/ConfiguratorMain.jsp`.
2. Click the **Validate/Import Table** drop-down list.

A list of subject areas of the Baseline Loader staging tables appears.

3. Select the desired subject area, and click **Import to Maintenix**.

   Baseline Loader validates the data in the staging tables of the selected subject area. If there are no validation errors, Baseline Loader copies the data of the subject area's staging tables into the database. To see the results of the import, consult the log. For more information, see *About the message log*.

4. Repeat these steps to load the next subject area.

Adding store and bin locations to an existing airport

You can use Baseline Loader to add store and bin locations to an existing airport location. To do so, you must add the data about the new store and bin locations in the appropriate staging tables, and import the locations subject area using Baseline Loader. See *Importing the baseline data using Baseline Loader*.

Consult the document *Baseline Loader Data Format Specifications - Materials* for details about preparing the staging tables; this document is in the `dataload\docs\BaselineLoader-DataFormatSpec` folder.

Creating replacement task definitions

Replacement task definitions are requirements with the REPL task class. It is good practice to ensure that every sub-assembly and tracked part has a replacement task definition associated with it.

About this task

You can load replacement requirement definitions into your database as part of the data for the requirement subject area. Also, a script is provided with Baseline Loader that automatically generates a replacement requirement for any sub-assembly or tracked part that does not have one already, and generates the job card definitions for the replacement requirement. The script puts the replacement requirements, and the associated job card definitions, in staging tables. You then import that data into the CAMO database using Baseline Loader.

Note You must run the script after importing the requirement definitions, but before importing the block definitions. See *Group B: Engineering Maintenance data*.

Steps

1. Delete all records in the following staging tables:
   - C_ASSMBL_ZONE
   - C_ASSMBL_PANEL
   - C_JIC

- C_JIC_IETM_TOPIC
- C_JIC_LABOR
- C_JIC_PART
- C_JIC_TOOL
- C_JIC_STEP
- C_REQ
- C_REQ_ADVISORY
- C_REQ_DYNAMIC_DEADLINE
- C_REQ_DYNAMIC_PART_DEADLINE
- C_REQ_IETM_TOPIC
- C_REQ_IMPACT
- C_REQ_JIC
- C_REQ_LABOUR
- C_REQ_PART
- C_REQ_PART_TRANSFORM
- C_REQ_REPL
- C_REQ_STANDARD_DEADLINE
- C_REQ_STEP
- C_REQ_STEP_SKILL
- C_REQ_TOOL

2. Go to the following folder:

   `<database_install>\dataload\lib\plsql\baseline`

3. Run the `populate_jic_repl.sql` script.

   The script populates the following staging tables:

   - c_req_repl
   - c_req_jic
   - c_jic
   - c_jic_part
   - c_jic_labor

4. Using Baseline Loader, load the following subject areas:

   - **Job Card**
   - **Requirement**

   For more information, see *Importing the baseline data using Baseline Loader*.

Importing stock data and materials agreements using CSV files

You can import data from CSV files only if you are performing the data load from a system running Windows.

The alternative method for loading data related to materials management agreements and stock (part of group C) is to import the data directly from comma-separated values (CSV) files into CAMO, without having to put the data in staging tables yourself. You can enter the data in Excel spreadsheets, save them to CSV format, and run the import scripts provided to import the data.

In a single operation, the import scripts perform the following steps:

1. Data is loaded from the CSV files to the Baseline Loader staging tables.
2. Data is imported from staging tables into the database.

Validation occurs at each of these steps.

Importing data into CAMO using CSV files

To import data using CSV files, you must be aware of the applicable subject areas, how to name the CSV files, and which scripts to use to validate and import the data.

About this task

The import from CSV method applies only to a subset of subject areas. For each of the subject areas, you must create a .csv file with the correct name. Separate scripts are provided to validate and import the data of each subject area.

The following table lists the applicable subject areas, the name you must assign to the .csv files, and the name of the scripts to use to validate and import the data into the database.

CSV file and import script names

Subject area	CSV file name	Import script name
Stock Header	c_stock_header.csv	c_stock_header_load_csv.bat
Stock Details	c_stock_details.csv	c_stock_details_load_csv.bat
Stock Allocation	c_stock_lvl_alloc.csv	c_stock_lvl_alloc_load_csv.bat
Stock Reorder Quantity	c_stock_lvl_attr.csv	c_stock_lvl_attr_load_csv.bat
Stock Part Assignment	c_stock_part_asgn.csv	c_stock_part_asgn_load_csv.bat
Exchange Agreement	c_vendor_exchange.csv	c_vendor_exchange_load_csv.bat
Purchase Agreement	c_vendor_purchase.csv	c_vendor_purchase_load_csv.bat
Repair Agreement	c_vendor_repair.csv	c_vendor_repair_load_csv.bat

Steps

1. Prepare the .csv file(s) you need, ensuring you do all of the following:
   - Set up the order of the columns in the .csv file to be exactly the same as in the staging table in the database.

     For detailed information about the staging tables for exchange, purchase, and repair agreements, see the *Baseline Loader Data Format Specifications - Materials*. For stock staging tables, see the *Baseline Loader Data Format Specifications - Stocks Management*. These documents are in the `dataload\docs\BaselineLoader-DataFormatSpec` folder.
   - Save the .csv files with the correct file name, as shown in the **CSV file and import script names** table above.
   - Put the .csv files in the following folder:

     `<database_install>\dataload\source`

     > **Tip** If you want to use different CSV file names than the ones specified and/or put the files in a different location, you can edit the control files (.ctl files) that are provided for each import script in `<database_install>\dataload \baselineloader \script\import`.

2. Configure the runtime.properties file.
3. Go to the following folder:

   `<database_install>\dataload\script_Baseline\import`
4. Run the import script(s) that relate to the subject area you want to import.

   See the **CSV file and import script names** table above for the name of the import script to run for each subject area.

Data validation and error reporting

When you execute a script to import data from a CSV file, the script loads the data from the CSV file to the staging table, and then imports the data from the staging tables into CAMO. Validation occurs at each of these steps.

When data is loaded from the CSV file to the staging tables, the validation checks for any data type mismatch that would prevent the insertion of data into the Baseline Loader staging table. For example, if the staging table expects a DATE value but the CSV file has a non-DATE type of value, an error is reported. The error report is stored in `<database_install>\dataload \script_Baseline\import\log`. The details of the errors are reported in two different log files that have the extensions .log and .bad, respectively. The .log file provides a list of the reasons for failure, and the .bad file reports the data affected by these failures.

The records that fail validation in the first step are not loaded into Baseline Loader staging tables; therefore, they are not imported into CAMO. Only records in the CSV file that pass the first step validation are loaded into staging tables.

At the import step, the data in the staging tables is validated. The validation at this step involves validating business rules as described in the *Baseline Loader Data Format Specifications* documents. The records in a staging table are imported into CAMO only when all records pass the second validation. Otherwise, none of the records in staging tables are imported. You must correct the invalid data and run the script again to import the data into CAMO. When there are errors in the validation, the errors are reported in the `<subject_area>_import_report.csv` file in the log folder, for example, `c_vendor_repair.import_report.csv`.

Importing baseline data using packages

You can also import the subject areas using packages. The following sections lists the procedures available for importing each subject area.

Group A: Materials and Engineering equipment data

Finance data

Baseline tables:	• c_fnc_account • c_fnc_account_update • c_fnc_tcode
Package:	FINANCE_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Manufacturers data

Baseline tables:	c_eqp_manufact_map
Package:	MANUFACT_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Assembly data

Baseline tables:	• c_assmbl_list • c_ata_sys
Package:	ASSEMBLY_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Sub-assembly data

Baseline tables:	c_acft_subassy
Package:	SUBASSEMBLY_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Part Definitions and Configuration data

Baseline tables:	• c_dyn_part_config • c_part_config
Package:	PART_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Tools data

Baseline tables:	c_tool_def
Package:	TOOL_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Common Hardware data

Baseline tables:	c_comhw_def
Package:	COMHW_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Kits data

Baseline tables:	• bl_kit • bl_kit_content • bl_install_kit
Package:	BL_KIT_IMPORT
Procedure:	IMPORT

Input arguments:	• aiv_exist_in_mx:
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Sensitive Systems and Parts data

Baseline tables:	• bl_sensitivity_sys • bl_sensitivity_pg
Package:	BL_SENSITIVITY_IMPORT
Procedure:	IMPORT

Input arguments:	• aiv_exist_in_mx:
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Part Incompatibility data

Baseline tables:	bl_pg_part_incompat
Package:	BL_PART_INCOMPAT_IMPORT
Procedure:	IMPORT

Input arguments:	• aiv_exist_in_mx:
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Part Advisory data

Baseline tables:	bl_part_advisory
Package:	BL_PART_ADVISORY_IMPORT
Procedure:	IMPORT

Input arguments:	• aiv_exist_in_mx:
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Usage Definitions data

Baseline tables:	• c_dyn_usage_def • c_std_usage_def
Package:	USAGE_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Calculated Parameters data

Baseline tables:	• bl_calc • bl_calc_input • bl_calc_part_input
Package:	BL_CALC_IMPORT
Procedure:	IMPORT

Input arguments:	• aiv_exist_in_mx:
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Group B: Engineering Maintenance data

IETM data

Baseline tables:	• c_ietm_ietm • c_ietm_topic_attach • c_ietm_topic_tech_ref
Package:	IETM_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Job Card Definitions data

Baseline tables:	• c_assmbl_panel • c_assmbl_zone • c_jic • c_jic_ietm_topic • c_jic_labor • c_jic_part • c_jic_tool • c_jic_step • c_jic_step_skill
Package:	JIC_IMPORT

Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Component Job Cards data

Baseline tables:	• c_comp_jic • c_comp_jic_assigned_part • c_comp_jic_labour • c_comp_jic_comhw • c_comp_jic_tool • c_comp_jic_measurement • c_comp_jic_step • c_comp_jic_ietm
Package:	C_COMP_JIC_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Requirements data

Baseline tables:	• c_req • c_req_dynamic_deadline • c_req_dynamic_part_deadline • c_req_ietm_topic • c_req_jic • c_req_part_transform • c_req_repl • c_req_standard_deadline • c_req_advisory • c_req_impact • c_req_part • c_req_tool • c_req_labour • c_req_step • c_req_step_skill
Package:	REQ_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Component Requirements data

Baseline tables:	• c_comp_req • c_comp_req_assigned_part • c_comp_req_jic • c_comp_req_dynamic_deadline • c_comp_req_standard_deadline • c_comp_req_dyn_part_deadline • c_comp_req_ietm task_task_ietm • c_comp_req_advisory task_advisory • c_comp_req_impact task_impact
Package:	C_COMP_REQ_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Weight and Balance Impact data

Baseline tables:	bl_weight_balance
Package:	BL_WEIGHT_BALANCE_IMPORT
Procedure:	IMPORT

Input arguments:	• aiv_exist_in_mx:
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Component Reference Documents data

Baseline tables:	• c_comp_ref • c_comp_ref_assigned_part • c_comp_ref_task_link • c_comp_ref_dynamic_deadline
Package:	C_COMP_REF_DOC_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Reference Documents data

Baseline tables:	• c_ref • c_ref_task_link • c_ref_standard_deadline • c_ref_dynamic_deadline
Package:	C_REF_DOCUMENT_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Blocks data

Baseline tables:	• c_block • c_block_chain_task_details • c_block_dynamic_deadline • c_block_dynamic_part_deadline • c_block_req • c_block_standard_deadline
Package:	BLOCK_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Task Links data

Baseline tables:	c_task_link
Package:	TASK_LINK_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Maintenance Programs data

Baseline tables:	• c_maint_prgm • c_maint_prgm_task
Package:	MAINT_PRGM_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Faults data

Baseline tables:	c_fail_mode
Package:	FAULT_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Deferral References

Baseline tables:	• bl_fail_defer_ref • bl_fail_defer_conflict • bl_fail_defer_rel • bl_fail_defer_insp • bl_fail_defer_dead • bl_fail_defer_caps_level
Package:	BL_DEFERRAL_REFERENCES_IMPORT
Procedure:	import

Input arguments:	• aiv_exist_in_mx:
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Group C: Materials data

Materials data

Baseline tables:	• c_bin_part • c_part_no_misc_info • c_stock_loc • c_stock_no
Package:	MATERIALS_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Vendors data

Baseline tables:	• c_vendor • c_org_org_vendor • c_org_vendor_po_type • c_org_vendor_service_type • c_vendor_account
Package:	VENDOR_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Purchase Agreement data

Baseline tables:	c_vendor_purchase
Package:	C_VENDOR_PURCHASE_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Repair Agreement data

Baseline tables:	c_vendor_repair
Package:	C_VENDOR_REPAIR_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Exchange Agreement data

Baseline tables:	c_vendor_exchange
Package:	C_VENDOR_EXCHG_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Stock Header data

Baseline tables:	c_stock_header
Package:	C_STOCK_HEADER_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Stock Details data

Baseline tables:	c_stock_attr
Package:	C_STOCK_DETAIL_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Stock Part Assignment data

Baseline tables:	c_assign_parts_to_stock
Package:	C_STOCK_PART_ASGN_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Stock Allocation data

Baseline tables:	c_stock_level_alloc
Package:	C_STOCK_LVL_ALLOC_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Stock Reorder Quantity data

Baseline tables:	c_stock_level_attr
Package:	C_STOCK_LVL_ATTR_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Group D: Materials data part 2

Owners data

Baseline tables:	c_owner
Package:	OWNER_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Locations data

Baseline tables:	• c_loc_airport • c_loc_bin • c_loc_dock • c_loc_repair
Package:	LOCATION_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Group E: System data

Departments data

Baseline tables:	• c_dept • c_airport_dept
Package:	DEPT_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

PO Authorization Flow data

Baseline tables:	• c_ref_flow • c_ref_flow_level
Package:	PO_FLOW_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Users data

Baseline tables:	c_org_hr
Package:	USER_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

License Definitions data

Baseline tables:	• c_lic_defn • c_lic_prereq
Package:	LICDEFN_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

User Licenses data

Baseline tables:	c_org_hr_lic
Package:	USRLIC_IMPORT
Procedure:	IMPORT

Input arguments:	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

Group F: Scheduling

Scheduling data

Baseline tables:	bl_tail_spec_scheduling
Package:	BL_TAIL_SCHEDULING_IMPORT

Procedure:	IMPORT

Input arguments:	• aiv_exist_in_mx:
	  • STRICT: If the record in the staging table corresponds to a record that already exists in the database, then a validation error should be raised. This is currently the only execution mode that is supported.
	• aib_allornone:
	  • True: All-or-none mode. Import cannot proceed unless all records have passed validation.
	  • False: Partial loading mode. The valid records will be loaded without the invalid ones.

Output results from calling procedure:	• aon_retcode:
	  • 4: All records failed validation in "Partial Load" mode.
	  • 3: Validation errors occurred in "Partial Load" mode.
	  • 2: No records are present in the staging tables.
	  • 1: Success. All records in have passed validation.
	  • -1: An unexpected error occurred.
	  • -2: Validation errors occurred "All-or-None" mode.
	• aov_retmsg: Outcome description.

5

Exporting baseline data

You can use Baseline Loader to export baseline data from CAMO to the staging tables. For stock management subject areas, you can also export the baseline data to CSV files by using export scripts that are provided with Baseline Loader.

Exporting the data can save you much time when you have to prepare baseline data to load for a fleet expansion. For example, if your organization obtains a new type of aircraft that is very similar to another that is already defined in your CAMO baseline, you can export the existing baseline data, update some of the data in the staging tables to make it appropriate for the new aircraft type, and then load the baseline data for the new aircraft type.

Exporting data to staging tables

About this task

The Export to Staging Area button copies selected data from within the CAMO database into Baseline Loader staging tables. Consequently, if the data was updated through the CAMO UI (or by any other means) since it was initially loaded into CAMO, the exported data contains the accumulated updates.

Steps

1. Access the **Baseline Loader** page at `http://<maintenix server>/maintenix/web/configutils/ConfiguratorMain.jsp`.
2. Click the **Validate/Import Table** drop-down list.

   The list of subject areas of the Baseline Loader staging tables appears.
3. Click the desired subject area, and then click **Export to Staging Area**.

   The **Processing** pop-up window appears during the operation. When the data is exported to the staging table(s), a message is added at the top of the message list on the **Log** tab.

Note The Baseline Loader extraction process does not extract duplicate data from CAMO. If the database does not conform to the rules that stipulate that the assembly code, configuration slot code, and task code must be unique, only the first record is extracted. Baseline Loader assumes the others are duplicates.

Exporting stock management data to CSV files

About this task

Export scripts are provided for exporting stock management data from the CAMO database tables to CSV files. The scripts are located in the folder `<database_install>\dataload\script_Baseline`. The following table lists the name of the export scripts for each subject area, and the name of the CSV file each one produces.

Names of Export to CSV Scripts and Files

Subject area	Export script	Name of CSV file generated
Stock header	c_stock_header_generate_CSV.bat	stock_header_file.csv
Stock details	c_stock_details_generate_CSV.bat	stock_details_file.csv
Stock allocation	c_stock_lvl_alloc_generate_CSV.bat	stock_lvl_alloc_file.csv
Stock reorder quantity	c_stock_lvl_attr_generate_CSV.bat	stock_lvl_attr_file.csv
Stock part assignment	c_stock_part_asgn_generate_CSV.bat	stock_part_asgn_file.csv

Steps

1. Using Baseline Loader, export the data from CAMO to the staging tables for the following subject areas. For instructions, see *Exporting data to staging tables*.
   - Stock Header
   - Stock Details
   - Stock Part Assignment
   - Stock Allocation
   - Stock Reorder Quantity
2. Export the data from staging tables to CSV files by running the scripts listed in the table above.

The generated CSV files are saved in the `<database_install>\dataload\extract` folder.

Exporting baseline data using packages

You can also export the subject areas by calling the EXPORT procedure in the respective package for each area.

Package:	All Baseline Loader packages
Procedure:	EXPORT
Input arguments:	aib_autodel_stg_data: • 1: Will clear the staging table before exporting data • 0: If data exists in the table, it fail during runtime

Output results:	• aon_retcode:
	  • 1: Success
	  • 2: There was no data to export
	  • -1: Uncaught Exception
	  • -3: Could not export because data was already present in the staging area
	• aov_retmsg: Outcome description

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