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Object Migration User Guide



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Primary Authors: (primary author), (primary author)

Contributing Authors: (contributing author), (contributing author)

Contributors: (contributor), (contributor)

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Contents

1	Object Migration	
2	Migration Object Types	
3	Accessing Object Export and Object Import Features	
4	Export Object	
	Creating Export Definitions	4-1
	Editing Export Object Definitions	4-2
	Exporting Object Definition	4-2
	Re-exporting Object Definitions	4-3
	Viewing Export Object Details	4-3
	View Object Definition Export Log Details	4-3
	Downloading Dump File	4-4
	Deleting Export Object Definition	4-4
5	Import Object	
	Creating Object Import Definitions	5-1
	Editing Import Definitions	5-3
	Importing Object Definitions	5-4
	Re-importing Object Definitions	5-4
	Viewing Import Object Details	5-5
	Viewing Object Import Log Details	5-5
	Deleting Import Definition	5-6
	Index	

1

Object Migration

Object Migration is the process to define, export and import objects across environments (prod and non-prod)/instances. This feature also facilitates to migrate within the same setup or different setups.

Objects refer to the various metadata definitions defined for various domains. You may want to migrate objects for several reasons such as manage global deployments on multiple environments or to create multiple environments so that you can separate the development, testing, and production processes.

For example, you can use the object migration feature to define PMF process object such as balance computation on your testing environment. After successful testing, you can use this feature to export the object to production/non-production environment.

You can migrate the following object types:

- **Schedule** - Schedule provides the instruction to schedule the execution of defined processes. When a schedule is migrated, the associated batch is also migrated.
- **Batch** - Batch is a group of jobs. When a batch is migrated, the batch and the associated pipeline information are also migrated. Note that the dependent objects used in the batch are not exported. All the objects used in the batch must be present in the target environment before the batch definition is imported.
- **Batch_Group** - A set of individual batches are consolidated to form a single Batch_Group. When we migrate a Batch_Group all the batches, tasks and pipeline information associated with that Batch_Group are also migrated.
- **Pipeline** - A pipeline is an embedded data processing engine that runs inside the application to filter, transform, and migrate data on-the-fly. Pipelines are a set of data processing elements called widgets connected in series, where the output of one widget is the input to the next element.
- **Threshold** - The threshold limit associated with set variables values for scenarios in FCCM Cloud Service. These threshold values are set when scenarios are created or installed and can be changed, if required.
- **Job** - Jobs provide set of instructions to execute Workflow Pipelines, based on the set threshold values.
- **Roles** - Roles are used to map functions to a defined set of groups to ensure user access system security.
- **Groups** - Groups are used to map Roles. Specific User Groups can perform only set of functions associated with that group.
- **CM_ADMIN** - The CM_ADMIN object type refers to all the case management related admin screens. Under this object type, you can export case management related admin metadata and settings for Business Domain, Case Actions/Statuses, Case Priority, Case Rules, Case System Parameters, Case Types, Jurisdictions and Security Mapping.

**Note:**

System can successfully import any object if both Code/Name do not exist in the target. If either code or name of the object being migrated is already available in target, import will fail.

Even if overwrite option is selected, object will only be overwritten in target if both object code/name matches in target environment.

For example, if an interest rate curve is being migrated, and either code or name is already available in target environment, import will fail.

2

Migration Object Types

You can create Object Export and Import definitions for the following object types using Object Export/Import feature.

The Migration object types are categorized as follows:

Asset Liability Management

- Standardized_IRRBB_Shock
- Static_deterministic_process
- Time_bucket
- Dynamic_deterministic_process
- Forecast_balances
- Multi_dimensional_balance_sheet
- Pricing_margin
- Product_characteristics
- Behaviour_pattern_rule
- Discount_methods
- Forecast_rates
- Prepayment_model
- Prepayment_rules
- Transferring_Price_Rules

Cash Flow Edits

- Cash_flow_edits_rule
- Cash_flow_edits

Cash Flow Engine

- Cashflow_Process

Common Objects

- Batch

Note:

Ensure to have BATCH_SUMM, BATCH_VIEW and BATCH_ADD files to view, export and import batches.

- Batch_group

 Note:

Ensure to have BATCH_SUMM, BATCH_VIEW and BATCH_ADD riles to view, export and import batches.

- Currency
- Datamodel_extension_dimension
- Data_file_specification
- Dimensions

 Note:

Dimension definitions should be migrated before migrating the dependent object definitions. The source and the target dimension of the dependent objects should be the same.

- Expressions
- Filters
- Folder
- Hierarchy

 Note:

Dimension definitions should be migrated before migrating the Hierarchy associated with it. The Dimension should be the same in both source and target environments.

- Holiday_calendar
- Job
- Pipeline
- Schedule

 Note:

Ensure to have BATCH_SUMM, BATCH_VIEW and BATCH_ADD riles to view, export and import batches.

- Slowly Changing Dimensions

Data Maintenance Interface (DMI)

- Excel Upload
- Data Entry
- Data Exporter

 Note:

Ensure that the definitions are in **Approved** status before migrating.

Funds Transfer Pricing

- Add-on Rate Rule
- Alternate_Rate_Output_Mapping
- Replicating Portfolio
- Standard_Process

Identity Management

- **Groups** - For more information, refer to [Groups Summary in Admin Console](#).
- **Roles** - For more information, refer to [Roles Summary in Admin Console](#)

Patterns

- Behaviour_pattern
- Payment_pattern
- Reprice_pattern

Profitability Management

- Allocation Model
- Lookup Table
- Allocation Specification
- Static_Table

Profitability Analytics

- Financial Element Mapping
- Segmentation Mapping
- Line Item Display Order
- Geography Mapping

Rate Management

- Interest Rates
- Economic_indicator
- Volatility_surface

3

Accessing Object Export and Object Import Features

Using the Object Export and Import features, you can create Export and Import Object definitions.

Business Objects - To access Object Export and Import feature for Business Objects: From the left navigation pane in the PBSM applications console, click **Operations and Processes > Object Administration** and:

- To access Object Export feature, click **Export Object**.
- To access Object Import feature, click **Import Object**.

Identity Management Objects - To access Object Export and Import feature for Identity Management Objects: From the Admin Console, click **Identity Management** and

- To access Object Export feature, click **Object Migration (Export)** tile.
- To access Object Import feature, click **Object Migration (Import)** tile.

4

Export Object

Object Export Definition is a collection of objects that can be exported across environments.

You can view the list of object export definitions that are already created in the **Object Export Summary**. You can also view the following details about each object definition.

- **Name** - The unique name assigned to the collection when the export definition was created.
- **Object Migration Status** - The export status of a specific object definition.
 - **Success** - Indicates that the export is completed successfully.
 - **Failed** - Indicates that the export was not successful. You can reintiate the migration of the specific object definition.
 - **Saved** - Indicates that the object definition is created successfully and is yet to be exported.
 - **In Progress** - Indicates that the export is in progress. Once the export is complete, the status will change to Success/Failed.
- **Last Modified By** - The ID of the Last Modified by user who has modified the definition. On mouse over, the Last Modified Time and Date are displayed.

To filter the list and view specific Object Definition, use one of the following search options:

- To search for a specific Export Object Definition, type the first few letters of the export definition that you want to search in the Search Box and click **Search**. The search results display the names that consist of your search string in the list of available definitions.
- Enter the number of records to be viewed in a single page, in the **Records** box, at the bottom of the page. You can increase or decrease the number of entries that are displayed using the up and down arrows.
- You can navigate between pages in the **View** bar, use the navigation buttons present at the bottom of the page.

Creating Export Definitions

You can create export Meta data objects using the System Configuration tab in Admin Console.

For more information about the supported object types, refer to [Migration Object Types](#). Refer to the following steps, to create a migration export object.

1. Click **Add** in the **Object Export Summary** Page to view the **Migration Definition** page.
2. Enter the following details, in the **Migration Definition** page.
 - **Migration Name**: Enter the code of the export of objects to be migrated definition. This is a unique identifier.
 - **File Name**: The system auto-creates the file name of the objects that can be used to export the definition in the following format:
 - **For Business Objects**: Migration Name_BO_Time Stamp (MMDDYYY HHMMSS)

- **For Identity Objects:** Migration Name_IDM_Time Stamp (MMDDYYY HHMMYY)
- 3. Click **Apply** to save the details and view the **Object Selection** Page.
- 4. Click **Add** to include Migration objects to the definition.
- 5. select the required **Object Type** from the Object Types drop-down list.
- 6. Select the objects to be added to the Migrate Definition and click **Save**, to create a new migration object.

A confirmation message is displayed, when the definition is saved successfully. The new migration definition is listed in the Object Export Summary Page and the status is set to **Saved**.

You can also click **Export**, to export the object.

Editing Export Object Definitions

You can edit the Export Object definitions that are not exported and their status is **Saved** or **Failed**.

If the definitions is already exported and the status is set to **Success**, you cannot edit that definition.

To edit an Export Object definition, follow these steps.

1. In the Object Export Summary page, highlight the definition and click **Menu**, and select **Edit**.

The **Object Selection** page is displayed.

2. Modify the following details, if required, and click **Save** to changes.
 - Select the required **Object Type** from the Object Types drop-down list.
 - Select the objects to be added to/deleted from the definition.
3. After adding/deleting all the required objects, click **Save**.

The Export definition is saved successfully and a confirmation message is displayed. The new definition is listed in the Object Export Summary page and the status is set to **Saved**.

4. If you want to Save and Export the Definition, click **Export**.

Exporting Object Definition

After creating the object definitions, you can export them for migrating between environments, using Object Migration (Export) feature.

You can export object definitions in **Saved** or **Failed** state from the object Summary page. Refer to the following steps, to export definitions.

1. In the Object Summary Page, highlight the migration definition and click **Menu**.
2. Select **Export** from the menu.

After you export, the following Export status types are displayed:

- **Success** - Indicates that the definition is exported successfully.
- **Failed** - Indicates that the definition was not exported. Right-click and select **Export**, to reintiate the export process.

- **In Progress** -Indicates that the export is in progress. Once the export is completed, the status will change to Success/Failed.

Re-exporting Object Definitions

If the underlying metadata of an exported object definition has changed, you can re-export the same using Object Migration Re-Export feature.

This feature is enabled only for definitions that are successfully exported.

Refer to the following steps to re-export object definitions.

1. In the Object Export Summary page, highlight the migration definition you need to re-export and click **Menu**.
2. Select **Re-Export** from the menu.
The **Migration definition** screen appears.
3. Specify a unique name for the re-export.
The file name is displayed automatically.
4. Click **Export**.

After you re-export, the following status types are displayed:

- **Success** - Indicates that the definition is re-exported successfully.
- **Failed** - Indicates that the definition was not re-exported.
- **In Progress** - Indicates that the re-export is in progress. Once the re-export is completed, the status will change to Success/Failed.

Viewing Export Object Details

Using the **View** option, you can view the list of objects and the dependancies added to an Object definition. You can also view the object details.

1. Highlight the Export definition and click **Menu**.
2. Select **View**. The object types, list of objects and the dependent objects added to the export definition are listed in the left pane.
3. Double-click an object to view the object attribute details.

View Object Definition Export Log Details

View log facilitates you to view the export log information of the object definition with the migration status.



Note:

The View Log page for an object definition with status **Saved** will be empty.

To view the log details of object with migration status **Success** or **Failed**, follow these steps.

1. In the Object Export Summary page, mouseover the object definition and click **Menu**.
2. Select **View Log** from the drop-down menu, to access the **View Log** page.

The migration status of the objects with following details is displayed.

- **Object Migration ID** - The migration ID associated with the definition.
- **Object Type** - The object type of the definition.
- **Object Code** - The object code associated with the definition.
- **Creation Date** - The date of creation of the definition.
- **Created By** - The User Id of the User who created the definition.
- **Status** - The migration status of the definition.
 - **Success** - Indicates that the export migration was completed successfully.
 - **Failed** - Indicates that the export migration did not complete.
 - **Export Status Message** - The complete export status message.

**Note:**

Export status message currently not supported for GL reconciliation.

3. Click **OK** to close the page, after viewing the log details.

Downloading Dump File

You can download the export dump file for exported definitions to a local directory, using Download Dump file option.

The downloaded export dump file can be used to upload objects to a different environment.

**Note:**

This option is enabled, only if the definition is exported successfully and the **Migration Status** is set to **Success**.

To download a export dump file, refer to the following procedure.

1. Mouseover a migrated object and select **Menu**.
2. Select **Download Dump File** from the drop-down menu, to download the associated dump file and store it to the local directory.

Deleting Export Object Definition

You can delete only definitions that are set to **Saved** or **Failed** status.

To delete a export object definition, follow these steps.

1. In the Object Export Summary page, mouseover the definition to be deleted and click **Delete**.
2. Click **Yes** to confirm and proceed with the deletion.

5

Import Object

Object Import Definitions is a collection of objects that can be imported across environments. .

You can view the list of Object Import Definitions that are already created in the **Object Import Summary**. You can also view the following details about each Object definition.

- **Name** - The unique name assigned to the collection when the Import definition was created.
- **Object Migration Status** - The import status of a specific Object definition.
 - **Success** - Indicates that the import is completed successfully.
 - **Failed** - Indicates that the import was not successful. You can reintiate the migration of the Specific Object Definition.
 - **Saved** - Indicates that the Object Definition is created successfully and is yet to be imported.
 - **In Progress** - Indicates that the import is in progress. Once the import is complete, the status will change to Success/Failed.
- **Last Modified By** - The ID of the Last Modified by user who has modified the definition. On mouse over, the Last Modified Time and Date are displayed.

To filter the list and view Specific Object Definition, use one of the following search options.

- To search for a Specific Import Object definition, type the first few letters of the Import definition that you want to search in the Search box and click **Search**. The search results display the names that consist of your search string in the list of available definitions.
- Enter the number of records to be viewed in a single page, in the **Records** box, at the bottom of the page. You can increase or decrease the number of entries that are displayed using the up and down arrows.
- You can navigate between pages in the **View** bar, use the navigation buttons present at the bottom of the page.

Creating Object Import Definitions

You can create Import definitions and add Import Objects using the Object Migration (Import) feature.

1. Click **Add** in the **Object Import Summary** page to view the **Migration Definition** page.
2. Enter the following details, in the **Migration Definition** page.
 - **ID** - The Unique Name for the New Import Object definition.
The migration ID should not contain any space and exceed 30 characters. Underscore () and hyphen (-) are allowed.
 - **Dump File** - Select the .DMP file to be uploaded for creating the Import definition.

Figure 5-1 Importing Dump File

You can select the dump file using one of the following options:

- Select the option **Object Store**, to select the dump file (.DMP file) from the list of dump files available in the same environment.
- Select the option **Local Machine** and click **Drag and Drop**, to add a .DMP file, from the local directory. You can only Add Dump file that are downloaded using Download Dump file option.

Note:

- Uploading a dmp file either created or edited locally will generate an error.
 - You can rename the .DMP file, if required. Ensure to follow the naming convention. For more information, refer to [File Naming Conventions for Migrate Objects](#).
- **Import All** - Select an option to import the objects that are associated with the selected object type. You can edit this option if required, in the **Object Selection** page.
 - **Yes** - Imports all the objects that are included in the dump file.
 - **No** - Imports only those objects that you can select in the **Object Selection** page.
 - **Fail on Error** - Select an option to proceed with the definition creation in case of an error. You can edit this option if required, in the **Object Selection** page.
 - **Yes** - Stops the creation process, if error is generated.
 - **No** - Creates the import definition even when error is generated. The object with the error is not included in the object creation.
 - **Overwrite** - Select an option to overwrite the existing definition. You can edit this option if required, in the **Object Selection** page.
 - **Yes** - Replaces the existing Import definition.

- **No** - Creates a new Import definition.
- 3. Click **Apply** to save the details.

The Import definition is created and **Object Selection** page is displayed. You can add objects to this import definition.
- 4. Click **Add** to include objects to the definition.
- 5. Select the required **Object Type** from the Object Types drop-down list.

Objects that are defined in the environment with respect to the selected object type are listed. For example, if Schedule is selected as the Object Type, all the Objects defined with respect to Schedule, in the environment are only listed.

You can also enter the first few letters of the object name in the Search Field, to narrow down the search.
- 6. Click the check box adjacent to each object, to include the objects associated with a specific object type, to the import definition.
- 7. Repeat steps 4, 5 and 6, to include objects associated with various object types.
- 8. After adding all the required objects, click **Save**.

The Import definition is saved successfully and a confirmation message is displayed. The new definition is listed in the Object Import Summary page and the status is set to **Saved**.
- 9. If you want to Save and Export the Definition, click **Import**.

Editing Import Definitions

You can edit the Import definitions that are not imported and their status is **Saved** or **Failed**. If the definitions is already imported and the status is set to **Success**, you cannot edit that definition.

To edit an Import definition, follow these steps.

1. In the Object Import Summary page, highlight the definition and click **Menu**, and select **Edit**.

The **Object Selection** page is displayed.
2. Edit the following details, if required, and click **Save** to changes.
 - Select the required **Object Type** from the Object Types drop-down list.
 - Select the objects to be added to/deleted from the definition.
3. After adding/deleting all the required objects, click **Save**.

The import definition is saved successfully and a confirmation message is displayed. The new definition is listed in the Object Import Summary page and the status is set to **Saved**.
4. Click **Save** to update the changes.
5. If you want to Save and import the Definition, click **Import**.

Importing Object Definitions

After creating the object definitions, you can export them for migrating between environments, using Object Migration (Import) feature.

You can import object definitions in **Edited** state from the object Summary page. Refer to the following steps to import Object definitions.

**Note:**

Comments and Documents attached to an Issue/Action will not be migrated.

1. In the Object Summary Page, mouse-over the definition and click **Menu**.
2. Select **Import** from the drop-down menu.

After you import, the following Import status types are displayed:

- **Success** - Indicates that the definition is imported successfully.
- **Failed** - Indicates that the definition was not imported. Right-click and select **Import**, to restart the import process.

**Note:**

If the Process code is not unique and if the **Overwrite** flag is set as **No** while importing the object definition, the migration request fails and when you view the logs, the following error is displayed "**Process code is not unique, Migration Request Failed**"

- **In Progress** - Indicates that the import is in progress. Once the import is completed, the status will change to Success/Failed.

Re-importing Object Definitions

If the underlying metadata of an imported object definition has changed, you can re-import the same using Object Migration Re-Import feature.

This feature is enabled only for definitions that are successfully imported.

Refer to the following steps to re-import object definitions.

1. In the Object Imports Summary page, highlight the migration definition you need to re-import and click **Menu**.

2. Select **Re-Import** from the menu.

The **Migration definition** screen appears.

3. Specify a unique name for the re-import.
4. **Overwrite**: Select an option to overwrite the existing definition. You can edit this option if required, in the Object Selection page.
 - **Yes** - Replaces the existing Import definition.
 - **No** - Creates a new Import definition.

5. Click **Import**.

After you re-export, the following status types are displayed:

- **Success** - Indicates that the definition is re-imported successfully.
- **Failed** - Indicates that the definition was not re-imported.
- **In Progress** - Indicates that the re-imported is in progress. Once the re-imported is completed, the status will change to Success/Failed.

Viewing Import Object Details

Using the **View** option, you can view the list of objects and the dependancies added to an Object definition. You can also view the object details.

1. Mouseover the migration definition and click **Menu**.
2. Select **View**. The object types, list of objects and the dependent objects added to the export definition are listed in the left pane.
3. Double-click an object to view the object attribute details.

Viewing Object Import Log Details

View log facilitates you to view the log information of the object definition with the migration status.

**Note:**

The View Log page for a definition with migration status **Saved** will be empty.

To view the log details of definition with migration status **Success** or **Failed**, follow these steps.

1. In the Object Import Summary window, mouseover the migration definition and click **Menu**.
2. Select **View Log** from the drop-down menu, to access the **View Log** page.

The migration status with following details is displayed.

- **Object Migration ID** - The migration ID associated with the import object.
- **Object Type** - The object type of the import object.
- **Object Code** - The object code associated with the import object.
- **Creation Date** - The date of creation of the import object.
- **Created By** - The User Id of the User who created the import object.
- **Status** - The import status of the specific object.
 - **Success** - Indicates that the specific object was imported successfully.
 - **Failed** - Indicates that the specific object was not imported.
- **Import Status Message** - The complete import status message.



Note:

Import status message currently not supported for GL reconciliation.

3. Click **OK** to close the page, after viewing the log details.

Deleting Import Definition

You can delete only definitions that are set to **Saved** or **Failed** status.

To delete an import definition, follow these steps.

1. In the Object Import Summary page, mouseover the definition to be deleted and click **Delete**.
2. Click **Yes** to confirm and proceed with the deletion.

Glossary

Index