Oracle Financial Services Analytical Applications Infrastructure

Object Migration Utility - OFSAAI v7.3.5.1.0/7.3.5.2.0 to v8.x

User Guide

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Created by: Aneesh Kurian	Reviewed by: OFSAA PQA Team	Approved by: Kiran Katekar/Deepthi

Executive Summary

This document includes the necessary procedural instructions for migrating the OFSAAI objects from release 7.3.5.1.0/7.3.5.2.0 to release 8.0.0.0.0 and above.

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Preface

This Preface covers following topics:

- About Oracle Financial Services Analytical Applications Infrastructure

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About Oracle Financial Services Analytical Applications Infrastructure

Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) is a general purpose Analytics Applications infrastructure that provides the tooling platform necessary to rapidly configure and develop analytic applications for the financial services domain. It is built with Open-Systems Compliant architecture providing interfaces to support business definitions at various levels of granularity.

Applications are built using OFSAAI by assembling business definitions or business metadata starting from data-model to lower grain objects like Dimensions, Metrics, Security Maps, and User Profile to higher order objects like Rules, Models, and Analytic Query Templates which are assembled using the lower grain ones. In addition to application definition tools, it provides the entire gamut of services required for Application Management including Security Service, Workflow Service, Metadata Management, Operations, Life-cycle Management, public API's and Web Services that are exposed to extend and enrich the tooling capabilities within the applications.

OFSAAI provides the framework for building, running, and managing applications along with out of the box support for various Deployment Models, Compliance to Technology standards, and supporting a host of OS, Middleware, Database, and Integration with enterprise standard infrastructure.

The *Oracle Financial Services Migration Utility User Guide* provides procedural instructions for migrating the objects from OFSAAI release 7.3.5.1.0 or 7.3.5.2.0 to release 8.0.0.0.0 and above.

Audience

This guide is intended for Administrators and Business Analysts who are involved in migration of objects from OFSAAI release 7.3.5.1.0 or 7.3.5.2.0 to release 8.0.0.0.0 and above.

How this Guide is Organized

The Oracle Financial Services Migration Utility User Guide details the following topics:

- About Migration Utility

- Preparing a Migration Plan

- Pre Migration Activities

- Metadata Migration Process

- Post Migration Activities

- Limitations and Known Issues

Recommended Environment

Infrastructure application has been tested with Microsoft Internet Explorer™ browser. For best viewing of Infrastructure pages, set the screen resolution to a minimum resolution of 1024 x 768 pixels.

Conventions and Acronyms

Conventions	Description
Actions are indicated in **Bold**	
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
.DMP file	Dump file
Infodom	Information Domain
LHS Menu	Left Hand Side Menu
OLAP	Online Analytical Processing
ML	Maintenance Level
IR	Interim Release
XML	Extensible Markup Language
BP	Business Processor
ICC	Information Command Center
RRF	Run Rule Framework

1 About Migration Utility

The Migration Utility is designed to allow you to carry forward Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) metadata from v7.3.5.1.0 or v7.3.5.2.0 to v8.0.0.0.0 and above. The procedure described in this guide is a general approach that you should follow during the migration process. This Migration Utility is an extension of the existing Command Line Utility.

1.1 Recommendations

▪ Take backup of the Target Config and Atomic schemas. This is required if you need to restore the Target Config and Atomic schemas from the backup and restart the migration process all over again.

For more information regarding backup strategy and backup procedure, refer to Prepare a Backup Strategy section.

▪ During the migration process, no metadata changes should be done on the Source environment. However, operational activities such as Data Loads, Batch Executions, and Run Executions can be carried out.

▪ Ensure that you are NOT triggering multiple migration executions simultaneously. Doing this from multiple users may result in overwrite of the archive files.

▪ This Migration Utility migrates only OFSAAI (platform) objects. If the Source OFSAAI instance contains multiple applications, you must migrate each of these applications separately using the respective application's migration kit. *For more information, refer to the application specific Migration Utility Guides available in the respective Application Pack OTN libraries.*

▪ Ensure that you have installed all the locales present in the Source, in the Target as well.

▪ Ensure that you have sufficient free disk space available to store the migration artifacts on source and target setups.

1.2 What this Utility will not Migrate

▪ Data from the staging/processing/results area will not be migrated using this utility.

2   Preparing a Migration Plan

Before you execute the Migration Utility, ensure that you have familiarized the following:

- [Becoming Familiar with the New Release](#)
- [Understanding the Prerequisites](#)
- [Choosing the Upgrade Method](#)
- [Preparing a Backup Strategy](#)
- [Developing a Testing Plan](#)
- [Testing the Migration Plan on a Test Database](#)

2.1   Becoming Familiar with the New Release

To execute acceptance tests, users involved in the migration process will need to be familiar with the architecture, tools, and the user interface of the new release. For more information, see OFSAAI 8.0.0.0.0 User Guide. In particular, users will want to become skilled at accessing similar objects such as Business Rules, Dimensions, Users, Folders, and Hierarchies in both Source and Target installations.

2.2   Understanding the Prerequisites

Following are the prerequisites to run the Migration Utility.

- Ensure that you have upgraded OFSAAI on source from any of the previous versions to v7.3.5.1.0 or v7.3.5.2.0. For OFSAA application's version on the source, refer the application specific Migration documents available in the respective Application Pack OTN libraries.
- A user with access and execution rights on `$FIC_HOME` folder on source and target setups.
- Folders (Segments) that are present on the source for the import should be present on the Target setup as well.
- For migrating mappings of Security Management System (Administration) objects, the dependent objects should be present in the Target environment. Otherwise, you will have to create mapping manually after migration. For example, while importing the User object, if you want to map a User with a User group that User group should be already present in the Target environment.
- For successful migration of User group-Folder-Role mapping, the Target should have the same Infodom name and folder name as in the Source. Also the folder should be a shared folder.

▪ OFSAA users should have access to same Infodom-Folders on Source as well as Target.

▪ The migration utility expects that the data model customizations made on the Source are already present in the Target.

The Applications are released as packs from version 8.0.0.0.0 onwards. If you use applications from multiple app packs on different OFSAAI instances on the Source, you should consider cloning/merging them into a single information domain using either the Object-Migration or Archive-Restore module of OFSAAI.

2.2.1   Software Versions on Source

OFSAAI version must be 7.3.5.1.0 or 7.3.5.2.0.

2.2.2   Software Versions on Target

OFSAAI version must be 8.0.0.0.0 or above.

The migration utility expects that the data model customizations made on the Source are already present in the Target.

2.3   Backup Procedure

At a minimum, take a backup of CONFIG and ATOMIC schemas on Target. Ensure that the folder from which the following command is executed has necessary permissions to create files.

You can use the following command to create a backup:

```
exp <schema name>/<password>@<database sid> file=<export filename>
log=<log filename> full=N
```

3   Pre Migration Activities

3.1   Steps in Pre Migration

Ensure that the following activities are performed, before you proceed with the migration process:

- Prior to executing the Migration Utility for specific object types, read the latest release notes to identify any infrastructure and application issues that may impact migration.

- OFSAA services on the Source and Target system should be up and running.

- The input values (object types, code, additional attributes like subtype, and so on) for the new Migration Utility should adhere to the conventions followed by the Command Line Utility Object Migration. *For more information, refer to the Command Line Utilities section in OFSAAI 8.0.0.0.0 User Guide shared at* [OTN Documentation Library](#)*.*

4 Metadata Migration Process

This section outlines the migration process for OFSAAI metadata. You can migrate the OFSAAI objects from the Source to Target system using the new Migration Utility. Refer to Appendix A to view the list of metadata object types that are migrated via this Migration Utility.

Metadata Migration can broadly be classified into the following steps:

- Preparing for Migration

    - Activities on the Source

    - Activities on the Target

- Performing the Migration

    - Export Procedure on Source

    - Import Procedure on Target

NOTE: During the Import, if any metadata exists in Target with the same code as in the Source, it will get overwritten. This happens only if the value of **OVERWRITE** parameter in the Target is set as '**Y**'.

4.1 Preparing for Migration

4.1.1 Activities on the Source

Perform the following activities on the Source.

- Download the OFSAAI Migration Utility (patch **20567446**) from MOS and extract the archive contents into any folder under UNIX-profile where OFSAAI 7.3.5.1.0 is installed. This step is not required if your OFSAAI version is 7.3.5.2.0.

- The patch **20911491** needs to be applied only if your Target version is 8.0.0.0.0. because these patches are regularized from OFSAAI 8.0.0.1.0 Maintenance Level (ML) release onwards. Download the Security Management System (Administration) object migration patch (patch **20911491**) from MOS and extract the archive contents into any folder under UNIX profile where OFSAAI 8.0.0.0.0 is installed.

- Backup the Config and the Atomic schemas.

4.1.2 Activities on the Target

Perform the following activities on the Target.

- Identify the data model customizations that have been performed on the source. Repeat the customizations on the v7.3.5.1.0 data-models and upload the same in Sliced Model Upload mode. *For more information, refer to the Model Upload section in OFSAAI 8.0.0.0.0 User Guide shared at OTN Documentation Library.*

- If the customization involves new AMHM dimensions, complete leaf-registration for the same.

NOTE: Leaf-registration will assign a unique dimension ID which may or may not be the same as that assigned to it on the Source. If the dimension IDs are not the same, the migration kit will synchronize the dimension IDs. That is, the dimension IDs on the Target will be changed to reflect the IDs on the Source.

- Create the required number of OFSAAI users on the Target – the user IDs should be the same as that in the Source.

- Create the required number of Infodom and Segments (folders) on the Target – the Infodom names and Segment names should be the same as that in the Source. *For more information, refer to the Information Domain section in OFSAAI 8.0.0.0.0 User Guide shared at OTN Documentation Library.*

- Backup the Config and the Atomic schemas.

- Download the OFSAAI Migration Utility (patch **20567945**) from MOS and extract the archive contents into any folder under UNIX profile where OFSAAI 8.0.0.0.0 or above is installed.

- Download the Security Management System (Administration) object migration patch (patch **20912650**) from MOS and extract the archive contents into any folder under UNIX profile where OFSAAI 8.0.0.0.0 is installed. This patch needs to be applied only if your Target version is 8.0.0.0.0. This is because, these patches are regularized from OFSAAI 8.0.0.1.0 Maintenance Level (ML) release onwards.

4.2 Performing the Migration

The whole object migration process includes the export of objects from the Source system and Import of the same to the Target system.

The subsequent sections describe the necessary migration procedure required to be performed on both Source and Target.

4.2.1 Export Procedure on Source

The following set of activities has to be performed on the Source system.

To migrate the OFSAAI Metadata Objects from Source system to the Target system, perform the following steps:

1. Login to the UNIX shell on the Source OFSAAI instance and navigate to *FIC_HOME/utility/Migration/bin* folder on the command line terminal.

2. Execute the following command to provide execute permissions to all the folders/files present under the *FIC_HOME/utility/Migration/bin* location.

   chmod –R 775 *

3. Execute the following command with all the following parameters:

   ```
   ./migrateAllObjects.sh   <MIGRATION_CODE>   <USERID>   <LOCALE>
   <INFODOM>   <FOLDER>   <MODE>   <FILE>   <IMPORTALL>   <FAILONERROR>
   <OVERWRITE> <RETAIN_IDS> <OBJECTS>
   ```

   For example: ./migrateAllObjects.sh 87644 TESTUSER en_US OFSINFODOM
   OFSfolder EXPORT DQARCHIVE Y "" Y Y 120,122,123

4. Enter the input parameters in the order mentioned in the following table:

Parameter Name	Attribute	Description
MIGRATION_CODE		Enter the unique migration code to identify the status of the migration process. For example: **8860**
USERID		Specify the user ID of the OFSAAI user, for whom you are running the Migration Utility. Ensure the user is mapped to the specific source Information Domain/Segment. *NOTE: For migrating Data Quality definitions, the USERID has be passed in upper case.*
LOCALE		Enter the locale as **en_US**.
INFODOM		Specify the Information Domain from where objects need to be exported. The information domain name should be provided in capital letters.
FOLDER		Specify the Code of the folder/segment to which you need to import objects. This field is optional. The folder value should be provided in capital letters.

Parameter Name	Attribute	Description
		Note: This is the default target folder if object specific TargetFolder is not provided. However, if both FOLDER and TargetFolder are not specified, then source folder available in the exported dump file will be considered as target folder.
MODE		Set the mode of the operation as **EXPORT**.
FILE		Enter the dump file name.
FAILONERROR		This is applicable only for importing. Ensure that this field is not empty. For more information, refer the example above.
OVERWRITE		This is applicable only for importing. Ensure that this field is not empty. Mention either Y or N. For more information, refer the preceding example.
RETAIN_IDS		Specify whether to retain the source AMHM objects after migration. **Y** – Retain the Source AMHM object IDs. **N** – Will not retain the Source AMHM object IDs. When you choose the value '**Y**' for RETAIN_ID, if the Target system does not consume the object ID of the Source object, the ID will be retained while migration. And if the object in the Target system consumes the object ID of the Source, the ID will not be retained while migration. Instead, it will generate a new ID.
OBJECTS	Type ID	Specify the Type ID of the required metadata objects to be exported. For more information, refer to Appendix A.

The Export procedure on Source creates a **.DMP** file in the *FIC_HOME/utility/Migration/metadata/archive* folder. The name of the file will be the name provided in the **<FILE>** parameter.

*Example: The example cited at the beginning of this section provides the file name as **DQARCHIVE**. In that case, the .DMP file name will be **DQARCHIVE.DMP**.*

4.2.2   Import Procedure on Target

The following set of activities have to be performed on the Target system.

1. Copy the exported **.DMP** file that needs to be imported to *$FIC_HOME/utility/Migration/metadata/restore* folder.

   In case the folder structure does not exist, create the folders manually and grant 750 permissions to the user on the folders.

2. Execute the following command to provide execute permissions to all the folders/files present under the *FIC_HOME/utility/Migration/bin* location.

   chmod –R 775 *

3. Navigate to *$FIC_HOME/utility/Migration/bin* path and execute **migrateAllObjects.sh** by passing the parameter values, as follows:

   ```
   ./migrateAllObjects.sh    <MIGRATION_CODE>    <USERID>    <LOCALE>
   <INFODOM>   <FOLDER>   <MODE>   <FILE>   <IMPORTALL>   <FAILONERROR>
   <OVERWRITE> <RETAIN_IDS> <OBJECTS>
   ```

   For example: ./migrateAllObjects.sh 8860 TESTUSER en_US OFSINFODOM
   OFSfolder IMPORT DQARCHIVE Y Y N Y 120,122,123

4. Enter the input parameters in the order mentioned in the following table:

Parameter Name	Attribute	Description
MIGRATION_CODE		Enter the unique migration code to identify the status of the migration process. For example: **8860**
USERID		Specify the user ID of the OFSAAI user, for whom you are running the Migration Utility. Ensure that the user is mapped to the specific target Information Domain/Segment. *NOTE: For migrating Data Quality definitions, the USERID has be passed in upper case.*
LOCALE		Enter the locale. As of the now, the Migration Utility only supports US English. Therefore, enter **en_US**.
INFODOM		Specify the Information Domain where objects need to be imported. The information domain name should be provided in capital letters.
FOLDER		Specify the Code of the folder /segment to which you need to import objects. This field is optional. The folder value should be provided in capital letters. **Note**: This is the default target folder if object specific TargetFolder is not provided. However, if both FOLDER and TargetFolder are not specified, then source folder available in the exported dump file will be considered as target folder.
MODE		Set the mode of the operation as **IMPORT**.

Parameter Name	Attribute	Description
FILE		Enter the dump file name.
IMPORTALL		**Y** indicates that all exported objects in the .DMP file (dump) will be imported (regardless of any specific OBJECT entries in the OBJECTMIGRATION.XML file). ***Example***: `<IMPORTALL TARGETFOLDER="BASEG">Y</IMPORTALL>` **N** indicates that only objects explicitly specified in the OBJECTMIGRATION.xml file will be imported (provided they are already exported and available in the dump file).
FAILONERROR		Specify whether to fail operation on any error. **Y** - Stops the import process if there is any error. **N** - Continues with the next object in the import process even if there is an error.
OVERWRITE		Specify whether to overwrite any existing metadata. **Y** - Overwrites metadata even if the metadata already exists. **N** - Will not overwrite the object if it already exists and continue migrating the next object.
RETAIN_IDS		Specify whether to retain the source AMHM objects after migration. **Y** – Retain the Source AMHM object IDs. **N** – Will not retain the Source AMHM object IDs. When you choose the value '**Y**' for RETAIN_ID, if the Target system does not consume the object ID of the Source object, the ID will be retained while migration. And if the object in the Target system consumes the object ID of the Source, the ID will not be retained while migration. Instead, it will generate a new ID.
OBJECTS	Type	Specify the Type ID of the required metadata objects to be imported. For more information, refer to Appendix A. **Note**: You need to specify only those Types, which are present in the exported dump file.

Parameter Name	Attribute	Description
	TargetFolder	Specify an optional attribute TargetFolder in the command line to import objects to a specific folder. Objects can be migrated individually or in groups. Note the following: ▪ If you have not specified the TargetFolder, the objects will be imported to the folder specified in FOLDER parameter. ▪ Even if you have not provided the default FOLDER value, then the source folder value in the dump file will be taken as target folder. ▪ For Catalog Publish object, the TargetFolder is mandatory.

5. Once the execution is completed successfully, you can view the related log files from the *$FIC_HOME/utility/Migration/logs* folder.

NOTE: If any of the object fails, then you need to perform a Command Line Utility migration. *For more information, refer to the Command Line Utility section in OFSAAI 8.0.0.0.0 User Guide shared at OTN Documentation Library.*

5   Post Migration Activities

The following activities need to be performed after the execution of the Migration Utility.

NOTE: Reverse population will automatically occur with object migration for key dimension members on the Target instance if `AMHMConfig.properties` file has a property with Key=HIERARCHY_REVERSE_POP-<Infodom in Upper Case>-<Dimension ID> Value=Y. Otherwise, you need to run the reverse population utility manually.

5.1   Enable RRF objects, Essbase Cube, and Oracle Cube in the OFSAAI UI

After the migration, the Essbase Cubes will not be visible in the OFSAAI UI. To enable Essbase Cube in the UI after migration, you should manually map the APP ID with the Object ID. This process includes the following two major steps:

1.   Execute the command line instructions to publish the metadata in the Target environment.

     To perform this, refer to *Command Line Utility to Publish Metadata in Metadata Browser* section in *OFSAAI 8.0.0.0.0 User Guide* shared at *OTN Documentation Library*.

2.   Map the metadata objects in Source environment.

     To perform this, refer to *Object Migration* section in *OFSAAI 8.0.0.0.0 User Guide* shared at *OTN Documentation Library*.

5.2   General Activities after Migration

The migration kit folder from where the export was generated/imported can be cleared after migration is completed.

6 Limitations and Known Issues

The following are the Limitations and Known Issues present with this version of the OFSAAI Migration Utility.

- Modelling Framework objects such as Variable Shock, Scenario, Stress, Sandbox, and Technique cannot be migrated using this Migration Utility. This is because, these objects support only individual object migration, which can be done using the Command Line Migration Utility. *For more information, refer to the Command Line Utilities section in OFSAAI 8.0.0.0.0 User Guide shared at* [OTN Documentation Library](#)*.*

- The Migration Utility cannot post the status back to the caller as the call is not synchronous.

- The Migration Utility does not validate the order in which the object types are passed. In order to meet the dependency, the object type codes are expected to be passed in the order adhering to the precedence.

- The Migration Utility does not provide a summary of the objects which are successfully migrated or failed. You have to refer to the log files for this information .If any of the objects are not migrated after executing the Migration Utility, you should use the Command Line Utility to migrate those specific objects. *For more information, refer to the Command Line Utilities section in OFSAAI 8.0.0.0.0 User Guide shared at* [OTN Documentation Library](#)*.*

- Post Load changes supports only stored procedure types.

- Triggering multiple migration executions simultaneously from multiple users may result in overwrite of the archive files.

- While migrating Forms from v7.3.5.1.0 to v8.0.0.0.0, the Forms Menus which are linked to different applications will not be migrated. User has to manually copy the Forms Menu from Source to Target.

- The flowchart should be manually migrated post migration for Data Transformation object.

- Excel Upload definitions are not supported.

Appendix A - Objects Supported for Migration

The following table lists the objects that are migrated using this Migration Utility.

Object Name	Object Type ID	Support for Implicit Dependency
DATA QUALITY RULE	120	No
DATA QUALITY GROUP	1003	Yes
DATA TRANSFORMATION	121	No
ETL	122	No
DATA ENTRY FORMS AND QUERIES (DEFQ)	124	No
ALIAS	54	Yes
DERIVED ENTITY	128	No
BUSINESS MEASURE	101	Yes
BUSINESS DIMENSION	102	Yes
BUSINESS HIERARCHY	103	Yes
DATASET	104	Yes
BUSINESS PROCESSOR	105	No
ESSBASE CUBE	106	No
ORACLE CUBE	133	No
MAPPER	136	No
FORMS FRAMEWORK	126	No
FORMS MENU[1]	125	No
FORMS TAB	1125	No
FORMS LAYOUT	1126	No
RULE	112	No

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[1] FORMS MENU and FORMS LAYOUT migration is supported only if the source is of version 7.3.5.1.0 and target is 8.0.2.0.0 version. For other versions, it is not supported. The one-off 21483558 should have been applied on OFSAAI 7.3.5.1.0.

Object Name	Object Type ID	Support for Implicit Dependency
PROCESS	111	No
RUN	110	No
BATCH	123	No
DIMENSION	12	Yes
FILTER	1	Yes
EXPRESSION	14	Yes
AMHM HIERARCHY	5	Yes
VARIABLE	1301	No
MODEL	1305	No
CATALOG PUBLISH	1307	No
USERS	2000	No
USERGROUP	2001	No
ROLES	2002	No
FUNCTION	2003	No
PROFILE	2004	No

Appendix B - Object Specific Migration

This section provides the information about the Prerequisites, Object Type IDs, Dependent Objects, Limitations, Dependencies, and so on about the object specific migration.

If the dependent objects are not present in the Target setup then the mappings will fail but the actual object definitions will still be migrated successfully.

This section includes the following topics:

- Object Name: Data Transformation
- Object Name: ETL
- Object Name: DATA QUALITY RULE
- Object Name: DATA QUALITY GROUP
- Object Name: BATCH
- Object Name: RULE
- Object Name: PROCESS
- Object Name: RUN
- Object Name: Forms
- Object Name: StressTesting
- Object Name: Variable
- Object Name: Model
- Object name: DATA ENTRY FORMS and QUERIES (DEFQ)

Object Name: DATA TRANSFORMATION

- **Object Type ID**: 121
- **Limitation**: Before migrating the object, the dependent objects should be migrated to the Target system.

Object Name: ETL

- **Object Type ID**: 122
- **Prerequisite**: Source and application should be of the same name.
- **Limitation**: Before migrating the object, the dependent objects should be migrated to the Target system.
- **Dependent Objects**: Tables and Data Quality Rules

Object Name: DATA QUALITY RULE

- **Object Type ID**: 120

- **Limitation**: Before migrating the object, the dependent objects should be migrated to the Target system.

- **Dependent Objects**: Tables

  NOTE: The folder name should also be provided as one of parameters during migration.

Object Name: DATA QUALITY GROUP

- **Object Type ID**: 1003

- **Limitation**: Before migrating the object, the dependent objects should be migrated to the Target system.

- **Dependent Objects**: Data Quality Rules

  NOTE: The folder name should also be provided as one of parameters during migration.

Object Name: BATCH

- **Object Type ID**: 123

- **Limitation**: Before migrating the object, the dependent objects should be migrated to the Target system.

- **Dependent Objects**: Component definitions on which the Batch is created.

Object Name: RULE

- **Object Type ID**: 112

- **Limitation**: Since Rule migration does not support for dependent objects such as Dataset, Hierarchies, Measures, and Business Processors, they should be migrated to the Target system before migrating the object.

- **Post Migration Activity**: After the migration, the Rule will not be visible in the OFSAAI UI. To enable Rule in the UI after migration, you should manually map the APP ID with the Object ID in the OFSA_OBJECT_APPLICATION_MAP table.

  NOTE: The folder name should also be provided as one of parameters during migration.

Object Name: PROCESS

- **Object Type ID**: 111

- **Limitation**: Before migrating the object, the dependent objects should be migrated to the Target system.

- **Post Migration Activity**: After the migration, the Process will not be visible in the OFSAAI UI. To enable Process in the UI after migration, you should manually map the APP ID with the Object ID in the OFSA_OBJECT_APPLICATION_MAP table.

> **NOTE:** The folder name should also be provided as one of parameters during migration.

Object Name: RUN

- **Object Type ID**: 110

- **Limitation**: Before migrating the object, the dependent objects should be migrated to the Target system.

- **Post Migration Activity**: After the migration, the Run will not be visible in the OFSAAI UI. To enable Process in the UI after migration, you should manually map the APP ID with the Object ID in the OFSA_OBJECT_APPLICATION_MAP table.

> **NOTE:** The folder name should also be provided as one of parameters during migration.

Object Name: Forms

- **Object Type ID**: 126

- **Prerequisite**: GRC pack application needs to be installed in Target setup and data model table structure should be similar to that of the Source setup.

- **Dependencies**: Before migrating the object, the dependent objects should be migrated to the Target system.

Object Name: Variable

- **Object Type ID**: 1301

- **Prerequisites**:

    - The dependent metadata such as Dataset, Measures, Business Processes, and Hierarchy should be available in OFSAAI v8.0.0.0.0.

    - The metadata that measures dataset should be available, Business Process and Hierarchy in 8.0.0.0.0.

    - All Object migration with * mark is possible using `ALLobjectcommandLine` migration utility.

- This object does not depend on any folder.
  ```
  ./migrateAllObjects.sh 1321 TESTUSER en_US  OFSCAPADQINFO null EXPORT
  mlvarmig Y N Y N 1301
  ```

Object Name: Model

- **Type ID**: 1305

- **Prerequisites**

  - The same sandbox should be available in 8.0.0.0.0 with same sandbox ID. Hence before migrating the models, sandbox should be migrated.

  - The dependent metadata such as Sandbox, Dataset, Measures, Business Processes, and Hierarchy should be available in OFSAAI v8.0.0.0.0 with same ID as in the Source environment.

- All Object migration with * mark is possible using `ALLobjectcommandLine` migration utility.

- This object does not depend on any folder.

  ```
  ./migrateAllObjects.sh  1100  TESTUSER  en_US  CRECINFO  null  EXPORT
  modelrel Y N Y N 1305
  ```

- **Manual Configuration**: After migrating sandbox, it needs to be mapped to the application. This is required to view the migrated sandbox in OFSAAI v8.0.0.0.0. For this, select the table OFSA_OBJECT_APPLICATION_MAP from Config schema and manually insert the details.

Object Name: DATA ENTRY FORMS and QUERIES (DEFQ)

- **Type ID**: 124

- **Dependency**: Depend upon underlying tables.

- **Dependent Objects**: Tables

Object Name: USERS

- **Type ID**: 2000

- **Dependency**: Before migrating the object, the dependent objects should be migrated to the Target system. If the dependent objects are not present in the Target system, then the objects definitions will be migrated but the mappings will fail.

- Dependent Objects: User Group, Profile

Object Name: USER GROUP

- **Type ID**: 2001

- **Dependency**:

  - Before migrating the object, the dependent objects should be migrated to the Target system. If the dependent objects are not present in the Target system, then the objects definitions will be migrated but the mappings will fail.

  - For User group-Folder-Role mapping, the shared folder type should be present in the Target system with the same name as in the Source and should be mapped to a domain in the Target with the same name as in the Source. Also, the roles should be present in the Target.

- **Dependent Objects**: Roles

Object Name: ROLES

- **Type ID**: 2002

- **Dependency**: Before migrating the object, the dependent objects should be migrated to the Target system. If the dependent objects are not present in the Target system, then the objects will be migrated but the mappings will fail.

- **Dependent Objects**: Function

Object Name: FUNCTION

- **Type ID**: 2003

Object Name: PROFILE

- **Type ID**: 2004

  NOTE: While importing Profile-Holiday mapping, if the holiday is not defined in the Target system; a new holiday will be created.

Appendix C: Manage Security Management System (Administration) Objects

The Security Management System (Administration) objects such as Users, Usergroups, Roles, Functions, and Profiles are also migrated using this Migration Utility. Following are the Administration objects and the mappings that are migrated:

- Users along with the User-User group Mapping, User-Profile Mapping, and User-Attribute Mapping

- User groups along with the User group-Role Mapping and User group-Folder-Role Mapping

- Roles along with the Role-Function Mapping

- Functions

- Profiles along with the Profile-Holiday Mapping

The migrated objects should be authorized from the OFSAAI UI. For more information, refer to User Authorization section in the OFSAAI 8.0.0.0.0 User Guide shared at *OTN Documentation Library*.

Appendix D– Documentation

You can access the related documents from the following OTN Documentation Libraries:

- [Documentation Library for OFSAAI 7.3.X](#)

  - Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) User Guide Release 7.3.5.0.0

- [Documentation Library for Oracle's Advanced Analytical Applications Infrastructure 8.x Application Pack](#)

  - OFS Analytical Applications Infrastructure User Guide 8.0

OFSAAI Migration Utility Guide 8.0.0.0.0

Oracle Corporation
World Headquarters
500 Oracle Parkway
Redwood Shores, CA 94065
U.S.A.

Worldwide Inquiries:
Phone: +1.650.506.7000
Fax: +1.650.506.7200
https://www.oracle.com/industries/financial-services/index.html