

Oracle Financial Services
Funds Transfer Pricing
Metadata Migration from
v6.1.x.x.x to v8.0.0.0.0
Migration Guide



DOCUMENT CONTROL

| Version Number | Revision Date | Changes Done |
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| 1.0 | Created June 2015 | Document contents have been created and categorized to appropriate sections |
| 1.0 | Updated March 2017 | Updated for List of special characters allowed in OFSAAI Business Hierarchy |
| | | |

Executive Summary

This document details the process of migration of assumptions and rules from FTP v6.1.x.x.x to 8.0.x. Aside from the application specific data, the Migration Kit will automatically migrate a subset of OFSAA Infrastructure object types which are considered relevant for this application, as listed later in this document. For migration of a broader set of OFSAAI object types, refer to the OFSAAI 7.3.5.0.0 to 8.0.0.0.0 Migration Kit and its associated User Guide.

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About this Guide

This document describes the procedural execution of Oracle Financial Services Migration Tool to migrate the application metadata from 6.1.x.x.x to OFSAA 8.0.0.0. It includes detailed information about the migration process, Source and Target data models, and acceptance testing of the Target system.

Acronyms and Terminologies

Acronyms

| Acronym | Description |
|---------------|--|
| OFSAA | Oracle Financial Services Analytical Applications |
| OFSAAI or AAI | Oracle Financial Services Analytical Applications Infrastructure |
| FTP | Financial Services Funds Transfer Pricing |
| PFT | Financial Services Profitability Management |
| Infodom | Information Domain |

Terminologies

- **Source:** The OFSAA environment from which metadata needs to be migrated
- **Target:** The OFSAA environment into which metadata needs to be imported
- Database Schemas:
 - **Config schema:** Refers to the configuration schema used by OFSAA. OFSAA stores various information like users, user-privileges, ICC batches, etc., in this schema.
 - **Atomic schema:** Refers to the schema corresponding to each information domain in OFSAA. This schema stores information like staging, processing, and result data. A few applications also store their metadata within various tables in this schema.

1 Introduction

1.1 Overview of Migration Tool

The Migration Tool is designed to allow you to easily carry forward as much metadata as possible to the Oracle Financial Services v8.0.0.0.0 instance. The procedure described in this guide is a general approach that you should follow during the migration. Aside from application specific metadata, the tool will automatically migrate the relevant OFSAA Infrastructure metadata.

For example, the application migration kits do not migrate objects like Data Quality Rules & Groups, ICC Batches, DEFQ objects, Security Management System objects (Users/Groups etc.), etc., which are covered in the OFSAAI Migration Kit. Please refer to the OFSAAI Migration Guide for further details.

Dependent objects for EPM applications will be migrated automatically when their parent is migrated. For example, when a Hierarchy Filter is migrated, the associated Hierarchy will also be migrated.

Also, if the Source OFSAA instance contains multiple applications, you must migrate each of these applications separately using the respective application's migration kit. If any of the applications share object types, the migration kit will re-migrate and overwrite such artifacts.

Implementation Note: *As with any major release, there are functional differences that result in difficulty or the inability to migrate certain data. In these cases, this guide will try to recommend the best approach to either manually migrate or re-implement using the new application.*

For more information, refer to "Appendix C: Objects not Migrated".

2 Preparing a Migration Plan

Before you execute any migration scripts, the following steps should be taken:

- [Become Familiar with the New Release](#)
- [Understand the Prerequisites](#)
- [Choose an Upgrade Method](#)
- [Prepare a Backup Strategy](#)
- [Develop a Testing Plan](#)
- [Test Your Migration Plan on a Test Database](#)

2.1 Become Familiar with 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 OFSAA User Guides. 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 Understand the Prerequisites

Following are the prerequisites to run the migration utility.

2.2.1 Software Versions on Source

OFSAAI version must be v7.3.5.1.1 or a later 7.3.5.x version.

FTP must be 6.1.x

2.2.2 Software Versions on Target

Profitability Management Pack v8.0.0.0.0 must be installed.

The migration kit expects that the data model customizations made on the Source are already present in the Target. For example, customizations could include user-defined dimensions, dimension attributes, instrument and transaction tables and columns, lookup tables, etc..

2.3 Upgrade Method

The existing upgrade method uses a manual script-driven process for the Migration Tool, followed by some manual post-migration steps. This process is described in this guide.

As an alternative to using the migration tool, you could also choose to manually reconfigure all of the metadata on a fresh instance of Profitability Management Pack v8.0.

2.4 Prepare a Backup Strategy

The success of your migration depends heavily on the design and execution of an appropriate backup strategy. To develop a backup strategy, consider the following questions:

- How long can the production database remain inoperable before business consequences become intolerable?
- What backup strategy should be used to meet your availability requirements?
- Are backups archived in a safe, offsite location?
- How quickly can backups be restored (including backups in offsite storage)?
- Have recovery procedures been tested successfully?

2.4.1 Backup Procedure

At a minimum take a backup of the CONFIG and ATOMIC schemas. Ensure that the folder has necessary permissions to create dump and log files.

You can use the below command to create a backup:

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

2.5 Prepare a Testing Plan

You need a series of carefully designed tests to validate all stages of the upgrade process. Executed rigorously and completed successfully, these tests ensure that the process of upgrading the production database is well understood, predictable, and successful. Perform as much testing as possible before upgrading the production database. Do not underestimate the importance of a test program.

The testing plan must include the following types of tests:

- **Minimal Testing:** Entails moving application from the current database to the new database and running the application without enabling any new features. Minimal testing is a very limited type of testing that may not reveal potential issues that may appear in a "real-world" production environment. However, minimal testing will immediately reveal any application startup or invocation problems.
- **Functional Testing:** Includes a set of tests in which new and existing functionality of the system are tested after the migration. Functional testing includes all database, networking, and business/application components. The objective of functional testing is to verify that each component in common between the Source and Target systems behaves properly, as well as confirming that new features are working.

- **Performance Testing:** Compares the performance of various business functions on both the Source and Target systems. Unlike volume or load stress testing, base performance testing is meant to provide a real-world comparison of common usage without the setup and long run times. Successful completion of base performance testing should be considered a prerequisite to volume or load stress testing.

2.6 Test Your Migration Plan on a Test Environment

Create a test environment that will not interfere with the current production environment. Practice migration of the application metadata using the test environment. The best test, if possible, is performed on an exact copy of the database to be migrated, rather than on a downsized copy or test data. This will familiarize you with the migration process and minimize unexpected issues.

3 Pre-Migration Activities

3.1 Steps in Pre-Migration

Prior to executing the Migration Tool scripts for specific object types, read the latest release notes to identify any infrastructure and application issues that may impact migration, then follow these steps:

- The migration kit may modify the structure of some of the objects present on the Source Schemas. Therefore, you should consider cloning the Source environment and then run the migration scripts against the clones.
- Funds Transfer Pricing is part of the Profitability Management Pack from version 8.0.0.0 onwards. Therefore, if you have the following other applications on different instances on the Source, you should consider cloning / merging them into a single information domain using either the Object Migration or Archive Restore module.

Other applications present in this pack are:

- o PFT - Financial Services Profitability Management
 - o IPA - Financial Services Institutional Performance Analytics
 - o RPA - Financial Services Retail Performance Analytics
 - o EFPA - Financial Services Enterprise Financial Performance Analytics
- You should also consider cleaning up the clone of Source (remove any old/obsolete objects you do not wish to migrate) and taking backups of the Source Config and Atomic schema clones. This is required if you need to restore the Source Config and Atomic schemas from the backup and restart the migration.

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

- During the migration process, no metadata changes should be done on the Source OFSAA environment. Complete the migration of all of your applications prior to changes to any assumption data or running any application processes. Ensure that you are NOT triggering multiple application migrations simultaneously.
- If any metadata is shared across applications, then the metadata belonging to the application that is migrated the last will take precedence.
- OFSAA Folders (Segments), Groups, Users and their access privileges: OFSAA Infrastructure 7.3.5 and Applications (e.g. FTP) 8.0 introduce considerable changes to the user-security model, as well as introduce the framework for supporting object security. You

should therefore reassess your user-security configuration and reconfigure the same on OFSAA 8.0 before metadata migration is initiated.

Note: Alternatively, you can configure user security on the 7.3.5.x Source, then use the OFSAAI Migration Kit to migrate the security objects (Users, etc.) to the Target.

- Ensure that you have sufficient free disk space available to store the migration artifacts.

Typically, they will not require more than about 40 to 50 MB.

- If customers have the same application installed on multiple infodoms in the source, possibly for catering to different user-groups / lines of businesses or development / testing environments, and so on., then following additional pre-requisites steps may be required depending on the installation option:

1. **Installation option #1:** Separate instances of OFSAA v8.0 – one for each source-infodom

No additional pre-requisite steps required

2. **Installation option #2:** Cater to the same user-groups/LOBs from a single OFSAA instance, by leveraging the 'legal-entity' + object-security capability of OFSAA v8.0.0.0.

- o Ensure that the Segment (i.e. folder) codes and names are unique across the source-infodoms.
- o Perform object migration on the source OFSAA setup to merge these different source-infodoms into a single infodom on the Source. This final merged infodom will serve as the "Source" for the migration to OFSAA v8.0.

3. **Installation option #3:** Choose to migrate only the primary infodom and exclude the alternate infodom's from the migration process.

4 Metadata Migration Process

This section outlines the migration process for the FTP specific metadata. Refer to Appendix A to view the list of metadata object types that are migrated via this kit.

Metadata Migration can be classified into three broad steps:

- Preparing the Source
- Metadata Extraction (from the Source)
- Metadata Import (into the Target)

NOTE: During the Import, if any metadata exists with the same unique system identifier as in the Source, it will get overwritten. For example, if two applications have a shared object type, the common object will be overwritten when data for the second application is migrated.

If you are migrating from 6.1 to 8.0 and have custom dimension(s) created onsite in v6.1, then the 6.1 to 8.0 migration kit will migrate these dimensions to the target with the same dimension id. In such cases, as part of the migration script, the dimension id for legal_entity_id is reset to the next available dimension id number.

This migration kit includes various scripts to perform each of the above three steps. Usage of these scripts is explained later in this document.

4.1 Preparing for Migration

4.1.1 Activities on the Source

Perform the following activities on the Source.

- Upgrade this cloned/merged environment to OFSAAI v7.3.5.0.0 and above versions, and apply the following patches:
 - Patch **20527601 (AAI 7.3.5.1.0)**
 - Patch **20567446 (AAI 7.3.5.1.7)**
- Ensure that the FTP version is any 6.1.x release
- Download the FTP migration kit (patch **21223521**) and extract the archive into any folder under UNIX-profile where OFSAAI is installed.
- Backup the Config and the Atomic schema(s).

4.1.2 Activities on the Target

- Install Profitability Pack version 8.0.0.0.0.

- Identify the data model customizations that have been performed on the Source. Repeat the customizations on the v8.0.0.0 data-models and upload the same in Sliced Model Upload mode.
- 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.

- Ensure that the required OFSAA-users are already created on the Target with the same ID as in the Source.
- Ensure that the required Infodom folders (or segments) are created on the Target – the segments should be the same as in the Source.
- Backup the Config and the Atomic schemas.
- Apply the following patches:
 - Patch **20567945 (AAI 8.0.0.4)**
 - Patch **21255281 (AAI 8.0.0.7)**
- Download the FTP migration kit (patch **21223521**) and extract the archive into any folder under UNIX profile where OFSAAI 8.0.0.0.0 is installed.

Note on Localization: *Regardless of how many Language Packs are available on Source, all of the specified metadata will be migrated to the Target. If you do not install Language Packs on the Target, some of the metadata may not be visible.*

4.2 Performing the Migration

On the Source OFSAA instance, log into the UNIX shell and navigate to the **21223521 (migration-kit)** folder on the command-line terminal, provide execute permissions and perform the following steps. Please refer to the troubleshooting section, if you encounter any issues while executing the scripts.

To provide execute permissions, use the following command

```
chmod -R 755 .
```

Since the scripts will overwrite log files from any prior migrations, consider making copies of any existing logs, i.e. `prepare_source.log`, `extract_from_source.log`, and `import_from_source.log`.

1. Run the script for **Prepare Source**.

Example, where EPMINFO is the infodom name:

```
./prepare_source.sh EPMINFO
```

This step introduces structural changes to the metadata tables in the config and/or atomic schemas. This ensures that the tables are in a state from where the metadata can be extracted. Please refer to Appendix A to see the list of mandatory columns that will be altered by this step.

Review the log file for any errors. See `prepare_source.log`.

2. Run the script for **Extracting the application metadata from the source**. If there are no errors encountered, this step will generate a file **FTP_metadata.tar.gz** in the same folder.

Example:

```
./extract_from_source.sh EPMINFO
```

Review the log file for any errors. See `extract_from_source.log`.

3. Copy this archive into the corresponding **21223521 (migration-kit)** folder on the Target OFSAA instance.

On the Target OFSAA instance, log into the UNIX shell and navigate to the **migration-kit** folder on the command-line terminal and provide execute permissions:

```
chmod -R 755 .
```

Run the script for **Importing the application metadata into the Target**.

Example:

```
./import_into_target.sh EPMINFO
```

Review the log file for any errors. See `import_into_target.log`.

5 Post Migration Activities

The following activities need to be performed after the migration script execution.

5.1 Modifications made to the metadata that comes packaged with the application installers will not be migrated by this migration kit. For example, applications seed many AAI artifacts such as T2Ts, Data Transformation Rules, ICC Batches, and so on. Such artifacts will not be migrated. You can use OFSAA's Archive Restore functionality to migrate such customizations, once the migration kit has completed its activities.

5.2 Below is a list of Rate Management tables which need to be migrated manually.

- FSI_IRC_RATE_HIST
- FSI_IRC_VOLATILITY_RATE_HIST
- FSI_EXCHANGE_RATE_HIST
- FSI_ECO_IND_HIST_RATES
- FSI_EXCHNG_RATE_DIRECT_ACCESS

Note: To populate FSI_EXCHNG_RATE_DIRECT_ACCESS FSI_EXCHNG_RATE_CONV_FORMULA, execute the Currency Rates Validation button on Currency Rates UI in the Target.

- FSI_IRC_TS_PARAM_HIST

Note: This table can be populated using the Excel Export/Import option.

- FSI_FIXED_CURRENCIES

Note: Here, fixed currencies are part of migration kit, but you can migrate the floating currencies by UI.

5.3 Review Application Preferences

5.4 After successfully running the migration scripts, run tests in your Target environment.

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

5.6 Optional: Upgrade Target to the latest post-8.0.0.0 OFSAA release.

Appendix A

Limitations / Known issues

List of special characters allowed in OFSAAI Business Hierarchy:

Following are the restricted characters as per OFSAAI 7.3.5 for member maintenance and rendering

Hierarchy Browser Rendering

Member Name: Single quote, Double Quotes, forward slash, Carriage Return, ampersand

Member maintenance in AMHM

Member Name: Single Quotes , double quotes, ampersand, carriage Return (Respective Ascii Code are 39,34,38,13)

Member Alphanumeric Code also gets displayed in hierarchy tree.

Current list of characters not allowed in Member Alphanumeric Code: Single Quotes , double quotes, ampersand, carriage Return, @, ~, + (Respective Ascii Code are 39,34,38,13,126,64,43)

Member Maintainance in UMM

Member Name: ~, ` , !, @, #, \$, %, ^, &, *, (,), -, +, =, [,], {, }, |, \, :, ;, ", ', <, >, ?, /, comma

Apart from this, impact would be in all the UIs where platform Hierarchy Browser is consumed, and ALM application specific UIs and utilities around this.

List of object - types supported by this kit

Note: Dependent objects for EPM applications will be migrated automatically when their parent is migrated. For example, when a Hierarchy Filter is migrated, the associated Hierarchy will also be migrated.

| <u>Object Type</u> | <u>Tables Excluded</u> |
|--|------------------------|
| *(asterisk indicates object types also migrated via the OFSAAI Migration Kit). | |
| AMHM Attributes * | None |
| AMHM Members * | None |
| AMHM Hierarchies * | None |

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| | |
|-------------------------------------|--|
| Filters * | None |
| Expressions * | None |
| Interest Rate Codes | FSI_IRC_RATE_HIST FSI_IRC_TS_PARAM_HIST FSI_IRC_VOLATILITY_RATE_HIST |
| Holiday Calendars | None |
| Currencies | None |
| Currency Rates | FSI_EXCHANGE_RATE_HIST FSI_EXCHNG_RATE_DIRECT_ACCESS |
| Economic Indicators | FSI_ECO_IND_HIST_RATES |
| Payment Patterns | None |
| Repricing Patterns | None |
| Behavior Patterns | None |
| Propagation Patterns | None |
| Transfer Pricing Rules | None |
| Adjustment Rules | None |
| Application Preferences | None |
| Global Preferences | None |
| Prepayment Models | None |
| Alternate Rate Output Mapping Rules | None |
| Prepayment Rules | None |
| Stochastic Rate Indexing Rules | None |
| Standard Processes | None |

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| | |
|--------------------------------|------|
| Stochastic Processes | None |
| Break Identification Processes | None |
| Cash Flow Edit Processes | None |
| Simplified Batches | None |
| Process Tuning | None |

Defaults for NOT-NULL Columns, added in v8.0

| <u>Table Name</u> | <u>Column Name</u> | <u>Default-Value</u> | <u>Notes</u> |
|--------------------------------|--------------------------|----------------------|--|
| REV_APP_USER_PREFERENCES | SHOW_RUN_EXE_PARAMETERS | N | Run time execution parameters prompt would not appear by default. |
| REV_APP_USER_PREFERENCES | SECURITY_MAP | -1 | Security Map is introduced in 8.0 and set to -1 as default (meaning no Security Map) |
| REV_APP_PREFERENCES_METADATA_A | SHOW_TEMPLATE_DIMENSIONS | N | Legal Entity dimension will be seeded as a run time dimension in 8.0 and hence the value of this will Y. |
| REV_APP_PREFERENCES_METADATA_A | SECURITY_MAP | N | This is introduced in 8.0 and will be defaulted to N. |

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|-----------------------------------|------------------------|---|--|
| | | | Default of N means there is no security map configured for the setup. |
| REV_APP_PREFERENCES_METADATA A | SHOW_RUN_EXE_ PARAM | N | If this is set to N, then Run time execution parameters prompt would not appear. |

List of scripts

| Step | Script-file name | Parameters (if any) | Log files created by this step | Example |
|---------------------------------------|------------------------|---------------------------------------|--------------------------------|-------------------------------------|
| Prepare Source | prepare_source.sh | Name of the Source-Information Domain | prepare_source.log | ./prepare_source.sh EPMINFO |
| Metadata Extraction (from the Source) | extract_from_source.sh | Name of the Source-Information Domain | extract_from_source.log | ./extract_from_source.sh EPMINFO |
| Metadata Import (into the Target) | import_into_target.sh | Name of the Target-Information Domain | import_into_target.log | ./import_into_target.sh EPMINFO |

Appendix B - Troubleshooting and Logging

This section describes the various error messages written to the log files, and the recommended corrective action for resolving the same. In most cases, the error messages should be self-explanatory.

Note: the logs files will be overwritten everytime you execute the migration scripts, so you might want to make a copy before rerunning the scripts.

a. prepare_source.log

| Error Message | Meaning / Corrective Action |
|---|---|
| Cannot change access- permissions for xxxxxxx. Exiting... | Meaning: Unable to set execute permissions for xxxxxx Action: Ensure that the unix user executing the migration kit has privileges to change the file permissions under the migration-kit-home directory. |
| ==No xxxxxx.sql file found. Skipping step. | Meaning: There were no pre-scripts found for executing on the configuration or atomic schema Action: None |
| Unable to determine TNS Name for xxxxxx Schema. Please contact your System Administrator. (or) Unable to determine TNS Name for specified Information-Domain. Please contact your System Administrator. (or) Credentials not available for connecting to config schema. Skipping | Meaning: The kit was unable to get the login credentials for connecting to the configuration or atomic schema Action: This is usually indicative of a more serious problem. Please review the log file for any errors that you may be able to resolve. If you are unable to resolve, please contact Oracle Support, and share this log file. |
| Error: Could not determine version of AAI/Application. | Meaning: The kit was unable to determine the version of OFSAAI and/or the version of the |

| | |
|---|--|
| | <p>application.</p> <p>Action: The migration kit determines the versions via the file scripts/version/version.sql. Any errors while executing this script will also be captured in this log. Resolve any errors and try to execute prepare_source.sh again.</p> <p>Alternately, execute the SELECT statements included in this file via SQL*Plus on the configuration schema to review the errors. Please replace the following placeholders while executing the scripts</p> <ul style="list-style-type: none"> - ##appid## with the ID of the application. You can get the application-ID from the file conf/application.ID - ##infodom## with the name of the information domain; this would have been passed as a parameter to the prepare_source.sh script. |
| <p>Version Mismatch: AAI version [xxxxxx] should be >= yyyyyy</p> <p>(or)</p> <p>Version Mismatch: Application version [xxxxxx] should be >= yyyyyy</p> | <p>Meaning: There is a version mismatch between the expected and actual versions of OFSAAI and/or the application.</p> <p>Action: Please apply the required patches to bring your Source environment to the required state, and then restart the migration.</p> |

b. extract from source.log

| <u>Error Message</u> | <u>Meaning / Corrective Action</u> |
|---|---|
| <p>Error while extracting dimension-ids. Please check the log file for details.</p> | <p>Meaning: The kit was unable to determine the Dimension IDs of AMHM dimensions.</p> <p>Action: The migration kit determines the Dimension IDs via the file amhm/synchronize_ids/get_dim_ID.sql. Any errors while executing this script will also be captured in this log. Resolve any errors and try to execute extract_from_source.sh again.</p> |

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|---|---|
| Time-out! Please contact your system administrator. | <p>Meaning: The migration kit timed-out while attempting to export the AAI metadata.</p> <p>Action:</p> <ul style="list-style-type: none"> - Check if the OFSAA servers are running - If the error persists, please contact Oracle Support. |
|---|---|

c. import into target.log

| <u>Error Message(s)</u> | <u>Meaning / Corrective Action</u> |
|---|--|
| Error - Cannot find \${MIG_APP_ID}_metadata.tar.gz. Cannot proceed further. | <p>Meaning: The metadata-export archive that is created by the extract_from_source.sh script was not found</p> <p>Action: Copy the archive from the Source migration kit folder to the Target migration kit folder and try again</p> |
| Error - dim_ID.sql not found. Not synchronizing dimension-ids. | <p>Meaning: The migration kit was expecting the dim_ID.sql under amhm/synchronize_ids folder, but the file was not found.</p> <p>Action: Re-execute the script extract_from_source.sh, copy the metadata archive file to the Target server and try to run the import_into_target.sh again. If the error persists, please contact Oracle Support.</p> |
| Error - update_pooling_optimizer.sql not found. Has extract_from_source.sh been executed? | <p>Meaning: The migration kit was expecting the uodate_pooling_optimizer.sql under extract/config folder, but the file was not found.</p> <p>Action: Re-execute the script extract_from_source.sh, copy the metadata archive file to the Target server and try to run the import_into_target.sh again. If the error persists, please contact Oracle Support.</p> |
| ==No xxxxxx.sql file found. Skipping step. | Meaning: There were no pre-scripts found for |

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| | |
|--|--|
| | <p>executing on the config / atomic schemas</p> <p>Action: None</p> |
| <p>Time-out! Please contact your system administrator.</p> | <p>Meaning: The migration kit timed-out while attempting to export the AAI metadata.</p> <p>Action:</p> <ul style="list-style-type: none"> - Check if the OFSAA servers are running - If the error persists, please contact Oracle Support. |
| <p>Error: Could not determine version of AAI/Application.</p> | <p>Meaning: The kit was unable to determine the version of OFSAAI and/or the version of the application.</p> <p>Action: The migration kit determines the versions via the file scripts/version/version.sql. Any errors while executing this script will also be captured in this log. Resolve any errors and try to execute prepare_source.sh again.</p> <p>Alternately, execute the SELECT statements included in this file via SQL*Plus on the configuration schema to review the errors. Please replace the following placeholders while executing the scripts</p> <ul style="list-style-type: none"> - ##appid## with the ID of the application. You can get the application-ID from the file conf/application.ID - ##infodom## with the name of the information domain; this would have been passed as a parameter to the prepare_source.sh script. |
| <p>Version Mismatch: AAI version [xxxxxx] should be >= yyyyyy</p> <p>(or)</p> <p>Version Mismatch: Application version [xxxxx] should be >= yyyyyy</p> | <p>Meaning: There is a version mismatch between the expected and actual versions of OFSAAI and/or the application.</p> <p>Action: Please apply the required patches to bring your Source environment to the required</p> |

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|--|--|
| | state, and then restart the migration. |
| Cannot change access-permissions for xxxxxxxx. Exiting... | Meaning: Unable to set execute-permissions for xxxxxx Action: Ensure that the unix user executing the migration kit has privileges to change the file permissions under the migration-kit-home directory. |

Appendix C - Objects Not Migrated

- For modifications made to the metadata that comes packaged with the application installers, you can use the OFSAA Archive Restore functionality to migrate such customizations.

For example, applications seed many AAI artifacts such as T2Ts, Data Transformation Rules, ICC Batches, and so on. Such artifacts will not be migrated. If you have customized them in your Source environment, you should make similar customizations in the Target environment. You can perform these as a post-migration activity.

- The OFSAA Infrastructure Migration Kit will migrate OFSAA Folders (Segments), Groups, Users and their access privileges; these object types are not migrated by the application migration kits. Note that OFSAA Infrastructure 7.3.5 and Applications (e.g. FTP) 8.0 introduce considerable changes to the user-security model, as well as the framework for supporting object security. You should therefore reassess your user-security configuration and reconfigure the same on OFSAAI 8.0 before metadata migration is initiated. Note – Alternatively, you can configure user security on the 7.3.5.x Source, then use the OSAI Migration Kit to migrate the security objects (Users, etc.) to the Target.
- Rate Management historical data:
 - Interest Rates History (FSI_IRC_TS_PARAM_HIST, FSI_IRC_RATE_HIST, and FSI_IRC_VOLATILITY_RATE_HIST)
 - Exchange Rate History FSI_EXCHANGE_RATE_HIST, and FSI_FIXED_CURRENCIES, along with FSI_EXCHNG_RATE_DIRECT_ACCESS and FSI_EXCHNG_RATE_CONV_FORMULA
 - Economic Index Historical Rates (FSI_ECO_IND_HIST_RATES).
- Object Migration Rules
- Data from the staging, processing, and results tables. The scope of this document is restricted to metadata migration, and does not include data-migration. It is recommended that you migrate the data after metadata-migration is completed.

| Table Classification | Table Names |
|----------------------|--------------|
| Ledger | Ledger_stat |
| Transaction Tables | fsi_d_*_txns |
| Instrument Tables | fsi_d_* |
| Stage Tables | Stg_* |

Metadata Migration from v6.1.x to v8.0.0.0

| | |
|----------------|---|
| History tables | *_hist Note: For History tables, Direct copy is recommended. |
| Results tables | This is recommended to not retain the results/audit data, consider audit tables such as: FSI_O_PROCESS_CASH_FLOWS, FSI_FIXED_CURRENCIES_AUDIT, FSI_EXCHANGE_RATE_HIST_AUDIT, FSI_PROCESS_ERRORS |

Appendix D – Documentation

You can access the following related documents from <http://docs.oracle.com>

Migration Utility Guide for OFSAA Infrastructure 7.3.5.0.0 to 8.0.0.0.0

http://docs.oracle.com/cd/E61555_01/homepage.htm

User-guides for OFSAAI v7.3 / EPM (including FTP) v6.1.x

http://docs.oracle.com/cd/E28033_01/homepage.htm

User guides for OFSAA v8.0 / EPM (including FTP) v8.0

http://docs.oracle.com/cd/E54637_01/homepage.htm

Steps to clone an OFSAAI 7.3.x instance

http://docs.oracle.com/cd/E28070_01/books/Infrastructure/7.3.3.X.0/Full%20Installer/OFSAA_Environment_Cloning.pdf



Oracle Financial Services Data Migration Scripts Metadata Migration from v6.1.x to v8.0.0.0.0

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