Oracle Financial Services Data Foundation Application Pack

Cloning Reference Guide

Release 8.o.x

Oct 2021





Oracle Financial Services Data Foundation Application Pack Cloning Reference Guide

Copyright © 2021 Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

For information on third party licenses, click here.

Document Control

| Version Number | Revision Date | Changes Log |
|-------------------|------------------------|---|
| 1.0 | Created: December 2015 | Captured steps to set up an OFSAA Instance Clone for the 8.0.x.0.0 release. |
| 2.0 | Modified: May 2016 | Added notes for Bug 23228276 and 22554485. |
| 3.0 | Modified: Jan 2018 | Updated the document for Bug 27374642 and 27374657. |
| 4.0 | Modified: Nov 2018 | Added a prerequisite based on Bug 28715332.Updated for Doc 28728073.Updated for Doc 28929363. |
| 5.0 | Modified: Apr 2019 | Updated the document for Doc 29722514. |
| 6.0 | Updated: May 2019 | Added the OFSAA_LOG_HOME variable in the section Copy and Restore the OFSAA File System (Doc 29641604). Added note for the table batch_parameter in the section Run the Port Changer Utility (Doc 29448257). Added note in the section Run the Port Changer Utility for the OFS AAI Versions 8.0.2.2.0, 8.0.3.3.0, 8.0.4.2.0 to 8.0.4.5.0, 8.0.5.2.0 to 8.0.5.4.0, or 8.0.6.0.0, and Higher for EncryptC.jar (Doc 29419498). |
| 7.0 | Updated: Aug 2019 | Updated notes in the sections Run the Port Changer Utility and Run the EncryptC.jar Utility to Change the Key and Encryption Strings (Doc 29862507). |
| 8.0 | Updated: Dec 2019 | Added information for (Doc 30649409): Versions 8.0.5.4.0, 8.0.6.0.0, and higher, in the General Requirements section. Added the Provide Grants and Set Passwords Using the SysDBA User Login section. Updated information for version 8.0.6.0.0 and higher in the Run the Port Changer Utility for the OFS AAI Versions 8.0.2.2.0, 8.0.3.3.0, 8.0.4.2.0 to 8.0.4.5.0, 8.0.5.2.0 to 8.0.5.4.0, or 8.0.6.0.0, and Higher section (Doc 30452275). |

| Version Number | Revision Date | Changes Log |
|-------------------|-------------------|---|
| 9.0 | Updated: Mar 2020 | Added a note in the Target System Requirements section to upgrade the Target OS (Doc 30849532). Updated the Appendix A for the following (Doc 30849532): Step 1 - updated the table for new column names and added the note for value for V_DB_NAME. Step 2 - updated the note for OFS AAI versions 8.0.6 and higher. Step 3 - added one-off infomation for OFS AAI versions 8.0.6 and higher. Step 4 - added note for OFS AAI versions 8.0.6 and higher. Added a note in the Run the EncryptC.sh Utility to Change the Key and Encryption Strings for the OFS AAI Versions 8.0.2.2.0, 8.0.4.2.0 to 8.0.4.5.0, and 8.0.5.2.0 to 8.0.5.4.0 section stating that it is an optional step (Doc 30740418). Added a quickstart table in the Cloning Process section. |
| 10.0 | Updated: Oct 2021 | Updated the Perform the Post-Cloning Configurations section. Removed the EncryptC related content as it is not supported anymore. |

Table of Contents

| 1 | Pre | face | 6 |
|---|-------|--|----|
| | 1.1 | Background | 6 |
| | 1.2 | Assumptions | 6 |
| | 1.3 | Audience | 6 |
| | 1.4 | Conventions | 6 |
| | 1.5 | Abbreviations | 7 |
| 2 | Set | ting Up an OFSAA Instance Clone for the 8.0.x Release | 8 |
| | 2.1 | Prerequisites | 8 |
| | 2.1.1 | General Requirements | 8 |
| | 2.1.2 | Source System Requirements | 9 |
| | 2.1.3 | Target System Requirements | 9 |
| | 2.2 | Cloning Process | 10 |
| | 2.2.1 | Export the Complete Configuration and Atomic Schemas From the Source Environment | 11 |
| | 2.2.2 | Restore the Complete Exported Dumps Into the Target Environment Database | 11 |
| | 2.2.3 | Provide Grants and Set Passwords Using the SysDBA User Login | 12 |
| | 2.2.4 | Log In to the Config Schema of the Target Environment Database | 13 |
| | 2.2.5 | Copy and Restore the OFSAA File System | 13 |
| | 2.2.6 | Modify Files in the Path \$FIC_HOME When You Import the Files into Different Schemas | 14 |
| | 2.2.7 | Run the Port Changer Utility | 15 |
| | 2.2.8 | Perform the Post-Cloning Configurations | 17 |
| | 2.2.9 | Create and Deploy the .ear/.war files | 17 |
| 3 | Δnr | nendix A | 18 |

1 Preface

The purpose of this document is to serve as the reference material to the OFSAA administrators. This document contains detailed steps to set up an OFSAA Instance Clone for the 8.0.x.x.x releases.

1.1 Background

There is a consistent requirement for a faster and effective approach of replicating an existing OFSAA instance for further project developments. The approach is to set up the OFSAA instances that are exact copies of the current OFSAA instance.

1.2 Assumptions

The assumptions made in this document are:

- A working source OFSAA 8.0.x instance is in place.
- An appropriate target system exists for the new OFSAA setup.

1.3 Audience

This reference guide is for the administrators and implementation consultants responsible for the cloning of an OFSAA instance.

1.4 Conventions

The following text conventions are used in this document:

| Conventions | Description |
|--------------------------------------|---|
| 8.0.x | The OFSAA 8.0.x release. |
| Atomic Schema | The Database Schema where the application data model is uploaded. |
| Boldface | The boldface font type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary. |
| Configuration Schema (Config Schema) | The Database Schema which contains setup related configurations and metadata. |
| Italic | The italic font type indicates book titles, emphasis, or placeholder variables for which you supply particular values. |
| Monospace | The monospace font type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter. |
| Source | The source OFSAA system. |

| Conventions | Description |
|-------------|--------------------------|
| Target | The target OFSAA system. |

1.5 Abbreviations

The following table lists the abbreviations used in this document:

| Abbreviations | Description |
|---------------|-----------------------------------|
| OS | Operating System |
| UI | User Interface of the application |

Setting Up an OFSAA Instance Clone for the 8.o.x 2 Release

This chapter contains information about the prerequisites, cloning, and post-cloning configurations for the 8.0.x release when setting up an OFSAA Instance Clone. For details, see the following sections:

- **Prerequisites**
- **Cloning Process**

Prerequisites 2.1

To set up an OFSAA Instance Clone for the 8.0.x release, complete the following prerequisites:

- 1. General Requirements
- 2. Source System Requirements
- **3.** Target System Requirements

NOTE

Complete the prerequisites and then perform the procedures mentioned in the Cloning Process section.

General Requirements 2.1.1

Complete the following general requirements before beginning the cloning process:

- 1. The FTP/SFTP service is running on the OFSAA target system and the User credentials are available before you begin the cloning activities.
- 2. For any specific version of the OFS AAI (platform) application installed on your system, perform the corresponding action mentioned in the following table:

Table 1: Version-Specific Upgrade Information

| THE VERSION OF THE OFS AAI APPLICATION IN USE | PERFORM THE FOLLOWING ACTION |
|---|--|
| 8.0.0.0.0 | Download the patch 20422514 from My Oracle Support and install it in the source system. |
| 8.0.1.0.0 | Download the patch 22329222 from My Oracle Support and install it in the source system. |
| 8.0.5.0.x | Download the OFS AAI 8.0.5.2.0 ML patch 27552096 from My Oracle Support and install it in the source system to upgrade it to version 8.0.5.2.0. |
| 8.0.5.1.x | Download the OFS AAI 8.0.5.4.0 ML patch 29922464 from My Oracle Support and install it in the source system to upgrade it to version 8.0.5.4.0. |

Source System Requirements 2.1.2

In the source system, complete the following requirements:

- 1. All the OFSAA services are brought down.
- 2. Database connection details such as the RAC/NON-RAC URL, the SID/Service Name, and the User credentials are available.

Target System Requirements 2.1.3

In the target system, complete the following requirements:

1. All the basic software required for the installation of OFSAA applications (including infrastructure) is installed and is working on the machine identified as the Target OFSAA instance. You can use the Environment Check utility to verify system readiness. For details on how to use the Environment Check Utility, see the OFS Analytical Applications Environment Check Utility Guide.

For details on the software and hardware requirements, see the Installer and Installation Prerequisites section in the Oracle Financial Services Data Foundation Application Pack Installation and Configuration Guide.

NOTE

Upgrade the Target OS version to the same version as that of the Source OS. Binaries are OS version specific and cloning requires that there is no mismatch of library files.

- 2. The Web Server and the Web Application Server are configured. For details on how to configure web servers, see the Configuring Web Server chapter in the v8.0.0.0.0 to v8.0.6.0.0 of Oracle Financial Services Data Foundation Application Pack Installation and Configuration Guide.
- **3.** The OFSAA installation directory is set as \$FIC HOME with the 750 permission.

For example, /scratch/ofsaanew/OFSAA

4. The OFSAA staging/metadata repository directory is set as ftpshare with the 775 permission.

For example, /scratch/ofsaanew/ftpsharenew

5. The database connection details such as the RAC/NON-RAC URL, the SID/Service Name, and the User credentials are available.

NOTE

Create a new database instance that is different from the database instance used in the Source OFSAA instance.

6. The Web Server and the Web Application Server identified for the deployment of the OFSAA applications are installed and configured on the machine which is identified as the Web Server and Web Application Server.

NOTE

If you intend to use the same Web Application Server, then create a separate profile (WebSphere) or a domain (WebLogic).

7. The details of the WebSphere profile or the WebLogic domain or the Tomcat context are available.

NOTE

Before executing the utility, ensure to configure the file RevLog4jConfig.xml with the default log paths.

Cloning Process 2.2

Before initiating the cloning process, perform these steps to retrieve the schema names:

- 1. Log in to the Source Config Schema.
- 2. Execute the following guery to retrieve the Config Schema name and Atomic Schema name.

select dbuserid from db master;

In the **expdp** and **impdp** database utilities, you can use the schema names in the SCHEMAS attribute.

Subsequent steps for cloning are described in the subsections in this topic and the following table is a quickstart with a summary view of the cloning process:

Table 2: Quickstart for Cloning

| Sl. No. | Cloning Process (click the links to go to the specified steps in the document) |
|---------|--|
| 1 | Export the complete Configuration and Atomic Schemas from the source environment |
| 2 | Restore the complete exported dumps into the target environment database Restore the complete exported dumps into the target environment database with a different database user name (schema) |
| 3 | Provide grants and set passwords using the SysDBA user login 1. Provide the select grants permission on the sys.V_\$parameter view to the Config and Atomic Schemas of the target environment database 2. When you import into different schema names, set the passwords for the Config and Atomic Schemas of the target environment database same as that of the password in the source |
| 4 | Log in to the Config Schema of the target environment database |
| 5 | Copy and restore the OFSAA file system |
| 6 | Modify files in the path \$FIC_HOME when you import the files into different schemas |

| Sl. No. | Cloning Process (click the links to go to the specified steps in the document) |
|---------|--|
| 7 | Run the Port Changer utility |
| | Run the Port Changer utility for the OFS AAI versions 8.0.2.2.0, 8.0.3.3.0, 8.0.4.2.0 to 8.0.4.5.0, 8.0.5.2.0 to 8.0.5.4.0, or 8.0.6.0.0, and higher |
| 8 | Perform the post-cloning configurations |
| 9 | Create and deploy the .ear/.war files |
| 10 | Access the UI |

Export the Complete Configuration and Atomic Schemas From 2.2.1 the Source Environment

Export all the Configuration and Atomic Schemas from the Source environment.

For example:

expdp SYSTEM/oracle@OFSA12C2DB DIRECTORY=data pump dir DUMPFILE=ofsaaconf ofsaaatm %U.dmp filesize=2G SCHEMAS=ofsaaconf,ofsaaatm LOGFILE=ofsaaconf ofsaaatm exp.log

NOTE

Running the preceding command creates data dumps in the files in multiples of 2GB. You can use any other equivalent commands/tools to archive the schemas.

Restore the Complete Exported Dumps Into the Target 2.2.2 **Environment Database**

Restore all the exported dumps into the Target environment database.

For example:

impdp SYSTEM/oracle@OFSA12nDB DIRECTORY=data pump dir DUMPFILE=ofsaaconf ofsaaatm %U.dmp SCHEMAS=ofsaaconf,ofsaaatm LOGFILE=ofsaaconf ofsaaatm_imp.log

NOTE

Restoring the exported dumps creates the Config and Atomic Schemas with the same user credentials as that of the user credentials in the Source, along with the existing grants.

2.2.2.1 Restore the Complete Exported Dumps Into the Target Environment Database With a Different Database User Name (Schema)

Restore all the exported dumps into the Target environment database with a different database user name (schema).

For Example:

impdp SYSTEM/oracle@OFSA12nDB DIRECTORY=data pump dir DUMPFILE=ofsaaconf ofsaaatm %U.dmp REMAP SCHEMA= ofsaaconf:newofsaaconf,ofsaaatm:newofsaaatm LOGFILE=new ofsaaconf ofsaaatm imp.log

NOTE

- Restoring the exported dumps creates the Config and Atomic Schemas with the users mentioned under the REMAP_SCHEMA attribute. The REMAP_SCHEMA attribute is replaced as that of the Source along with the existing grants as in the Source environment.
- Ignore the **ORA-39082** object type created with the compilation errors. You can rectify this later in the subsequent steps.

Provide Grants and Set Passwords Using the SysDBA User 2.2.3 Login

Restore the Complete Exported Dumps into the Target Environment Database with a Different <u>Database User Name (Schema)</u> does not provide the select grants permission. You must log in with the SysDBA user role to provide the select grants permission and set the passwords. The following subsections provide the instructions.

2.2.3.1 Provide the Select Grants Permission on the sys. v \$parameter View to the Config and Atomic Schemas of the Target Environment Database

Provide the select grants permission on the sys. V Sparameter view to the Config and Atomic Schemas of the target environment database.

For example:

Log in as the sys user and run the following commands:

```
SQL> GRANT SELECT ON SYS.V $PARAMETER TO ofsaaconf;
Grant succeeded
SQL> GRANT SELECT ON SYS.V $PARAMETER TO ofsaaatm;
Grant succeeded
```

2.2.3.2 Set the Passwords for the Config and Atomic Schemas of the Target Environment Database with Different Schema Names

When you import into the Target environment database with different schema names, set the passwords for the Config and Atomic Schemas the same as that in the Source environment database.

NOTE

If this step is not applicable, ignore it and proceed to the next step.

For example:

Log in as the sys user and run the following commands:

```
SQL> ALTER USER newofsaaconf IDENTIFIED BY welcome1;
User Altered

SQL> ALTER USER newofsaaatm IDENTIFIED BY welcome1;
User Altered
```

2.2.4 Log In to the Config Schema of the Target Environment Database

Log in to the Config Schema of the Target environment database. Update the values in the Config Schema table as mentioned in *Table 1* in <u>Appendix A</u>.

NOTE

This step is applicable if you have imported into different schema names for the OFS AAI (platform) versions 8.0.5.2.x, 8.0.5.3.x, 8.0.5.4.x, and higher.

2.2.5 Copy and Restore the OFSAA File System

To copy and restore the OFSAA file system, follow these steps:

- **1.** Navigate to the \$FIC_HOME/utility/Clone/bin path in the Source environment and grant the 750 permission to all the files present in the directory.
- **2.** Execute the command:

```
./OFSAA Archive.sh
```

This step creates zipped files for the \$FIC_HOME and FTPSHARE directories in their respective locations in the Source.

For example:

```
<FIC_HOME>.zip
<FTPSHARE>.zip
```

3. Copy the <FIC HOME> and <FTPSHARE> archive files from the Source to the Target in their respective locations, that is, as per the directories created in the \$FIC HOME and FTPSHARE directories. For more information, see Set the OFSAA installation directory as \$FIC HOME and Set the OFSAA staging/metadata repository directory as ftpshare in the Target System Requirements section.

NOTE

Transfer the archives in the BINARY mode.

- **4.** The OFSAA installer made entries in the *.profile* file of the Source. Copy the entries to the .profile file of the Target in the respective locations.
- 5. To unzip, navigate to the directory where the zipped directory is present in the Target environment and execute the following command:

```
unzip -a <<Zipped file>>
For example:
```

```
unzip -a ftpshare.zip
```

Perform this step for both the <FIC HOME> and <FTPSHARE> zipped files. This unzips both files in their respective locations in the Target environment.

6. Give the 750 permission recursively to the \$FIC HOME directory and the 775 permission to the FTPSHARE directory extracted in the Target environment.

For example:

```
chmod -R 750 $FIC HOME
chmod -R 775 FTPSHARE
```

7. In the .profile file of the Target environment, modify the variables FIC HOME, JAVA BIN, PATH, ORACLE HOME, TNS ADMIN, ORACLE SID and OFSAA LOG HOME in the entries made by the installer according to the required values of the Target environment.

For example, change the path to Java Runtime in the JAVA BIN variable according to the Java Runtime installation on the Target environment.

- **8.** Execute the *.profile* file in the Target environment.
- 9. Edit the tnsnames.ora file present in the \$TNS ADMIN directory to add or edit the connection details to the OFSAA schemas of the Target environment.

Modify Files in the Path \$FIC HOME When You Import the 2.2.6 Files into Different Schemas

After importing the files into different schemas, modify the files in the \$FIC HOME path. Follow these steps:

- 1. In the OFS AAI server, navigate to the \$FIC HOME directory.
- 2. Modify values in the files as specified in step 2 of Appendix A and follow subsequent steps in the Appendix.

NOTE

This step is applicable only for the OFS AAI (platform) versions 8.0.5.2.x to 8.0.5.4.x.

2.2.7 Run the Port Changer Utility

Before running the Port Changer Utility, complete the following prerequisites:

- Ensure that the RevLog4jConfig.xml file is configured with the default log paths.
- This utility connects to the Config Schema to collect all the configurations. Therefore, in the \$FIC_HOME/conf directory, you must edit the DynamicServices.xml file for the DEFAULT_CONNECTION_URL attribute. Ensure that the VALUE is a qualified jdbc URL of the Target database.

NOTE

If your OFS AAI version is 8.0.2.2.0, 8.0.3.3.0, 8.0.4.2.0 to 8.0.4.5.0, 8.0.5.2.0 to 8.0.5.4.0, or 8.0.6.0.0, and higher, ignore the following instructions in this section and go to the section Run the Port Changer Utility for the Versions 8.0.2.2.0, 8.0.3.3.0, 8.0.4.2.0 to 8.0.4.5.0, 8.0.5.2.0 to 8.0.5.4.0, or 8.0.6.0.0, and Higher.

To run the Port Changer Utility, follow these steps:

- 1. Navigate to the \$FIC HOME directory in the Target.
- 2. Run the PortC.jar utility using the command:

```
java -jar PortC.jar DMP
```

Running the above command creates a file with the name **DefaultPorts.properties** in the $\$FIC_HOME$ directory. The directory contains the information related to the ports, IPs, and paths currently in use.

NOTE

It is mandatory to run the Port Changer utility using the DMP parameter every time before executing the utility using the UPD command.

3. Make the necessary changes to those ports, IPs, and paths in the **DefaultPorts.properties** file as per the Target environment. Save the changes.

NOTE

In the properties file, ensure that the JDBC_URL parameter does not contain space(s). Entering the JDBC_URL parameter with space(s) leads to errors in accessing the *System Configuration* window.

4. Run the **PortC.jar** utility using the command:

java -jar PortC.jar UPD

Running the above command changes the ports, IPs and paths in the .profile file (in the home directory), all the files in the \$FIC HOME directory, and the database tables according to the values mentioned in the **DefaultPorts.properties** file.

- 5. After the Cloning Process is complete, in the ficdb/bin/righttoforget.sh file, as per the URL parameter, the IP or Host Name and the Port values need to be changed manually.
- 6. Execute the .profile file and create the EAR/WAR file. Then restart the OFSAA services and redeploy to the configured web application server.

NOTE

- The table batch parameter is not updated with the new IP after you run the file portc. jar. The table holds the batch execution details of the batches that were executed earlier. The table batch parameter master holds the new IP after you run portc.jar.
- Check the logs for more information, and contact My Oracle Support if you encounter any errors.

2.2.7.1 Run the Port Changer Utility for the OFS AAI Versions 8.0.2.2.0, 8.0.3.3.0, 8.0.4.2.0 to 8.0.4.5.0, 8.0.5.2.0 to 8.0.5.4.0, or 8.0.6.0.0, and Higher

To run the Port Changer Utility for the OFS AAI versions 8.0.2.2.0, 8.0.3.3.0, 8.0.4.2.0 to 8.0.4.5.0, 8.0.5.2.0 to 8.0.5.4.0 or 8.0.6.0.0, and higher, follow these steps:

- 1. Navigate to the \$FIC HOME/utility/PortC/bin directory on the Target.
- 2. Run the **PortC.sh** utility using the command:

./PortC.sh DMP

Running the above command creates a file with the name **DefaultPorts.properties** in the \$FIC HOME directory. The directory contains the information related to the ports, IPs, and paths currently in use.

NOTE

It is mandatory to run the Port Changer utility using the DMP parameter every time before executing the utility using the UPD command.

- 3. Make the necessary changes to those ports, IPs, and paths in the **DefaultPorts.properties** file as per the Target environment. Save the changes.
- **4.** Run the **PortC.sh** utility using the command:

./PortC.sh UPD

Running the above command changes the ports, IPs and paths in the .profile file (in the home directory), all the files in the \$FIC HOME directory, and the database tables according to the values mentioned in the **DefaultPorts.properties** file.

- 5. After the Cloning Process is complete, in the ficdb/bin/righttoforget.sh file, as per the URL parameter, the IP or Host Name and the Port values need to be changed manually.
- 6. Execute the .profile file and create the EAR/WAR file. Then restart the OFSAA services and redeploy to the configured web application server.

Perform the Post-Cloning Configurations 2.2.8

Perform the post-cloning configurations as mentioned in the *Post Installation Configurations* section in the versions 8.0.2.0.0 and 8.0.7.0.0 of the OFS AAAI Application Pack Installation and Configuration Guide.

NOTE

Ensure that you apply the Oracle recommended configuration mentioned in the Configure Referrer Header Validation Section in the Oracle Financial Services Analytical Applications Security Guide, to update the information.

Create and Deploy the .ear/.war files 2.2.9

To create and deploy the .ear/.war files, follow these steps:

- 1. Navigate to the \$FIC WEB HOME directory in the Target environment.
- **2.** Delete the OFSAA application *.war/*.ear file present in this directory.
- **3.** Execute the command:

```
./ant.sh
```

- 4. Copy the generated .ear/.war file to the Web Application Server identified for this OFSAA instance.
- 5. Modify all the Database connection resources done on the Web Application Server that are mapped to the new JDBC URL and Database User Credentials. Verify the test connection to validate.
- **6.** Deploy the .ear/.war file using the Web Application Server Admin Console.

2.2.9.1 Access the UI

Access the UI by using the new IP Address/Host Name, the new Port, and the new Context Name.

For example:

http://<IP ADDRESS/ HOSTNAME>:<PORT>/<CONTEXT NAME>/login.jsp

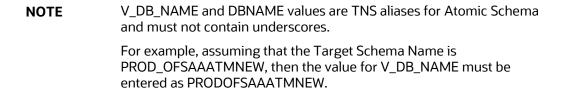
3 Appendix A

Manually modify the occurrences of the Source database user name with a new Target database user name (see the REMAP_SCHEMA attribute mentioned in the <u>Restore the Complete Exported Dumps Into the Target Environment Database</u> subsection of the <u>Cloning Process</u> section).

1. Log in to the newly imported Config Schema and update the column values as mentioned in the following table (Ignore if there are no rows found):

Table 3: Update Config Schema Columns

| Sl. No. | TABLE NAME | COLUMN NAME |
|---------|---------------------------|------------------|
| 1 | DB_MASTER | DBUSERID |
| | | DBNAME |
| 2 | AAI_DB_AUTH_ALIAS | V_AUTH_USERNAME |
| | | V_AUTH_ALIAS |
| 3 | AAI_DB_DETAIL | V_SCHEMA_NAME |
| | | V_DB_NAME |
| 4 | AAI_DMT_SOURCE | V_TABLE_OWNER |
| | | V_DB_NAME |
| 5 | AAI_ETL_SOURCE | V_TABLE_OWNER |
| | | V_DB_NAME |
| 6 | ETLSOURCEDETAILS | V_SCHEMA |
| 7 | DSNMASTER | DBNAME |
| | | V_INFO_DB_NAME |
| | | CREATEDUSR |
| 8 | AAI_DB_PROPERTY | V_PROPERTY_VALUE |
| | | V_DB_NAME |
| 9 | METADATA_ELEMENT_MASTER | V_ELEMENT_VALUE |
| 10 | VIEW_DERIVED_ENTITY_TPOSE | SCHEMA_NAME |
| 11 | I18NMASTER | REVCONTEXT |



2. Manually modify the occurrences of the Source Config database user name with the new Target Config database user name. See the following table for details:

Table 4: Source and Target Config Database User Name Files

| Sl. No. | Directory Path | File Name |
|---------|--|---------------------------|
| 1 | \$FIC_HOME/conf/ | Reveleus.SEC |
| 2 | \$FIC_HOME/utility/OFSAAGenerateRepository/conf/ | Reveleus.SEC |
| 3 | \$FIC_HOME/conf/ | DynamicServices.xml |
| 4 | \$FIC_HOME/MigrationUtilities/Migration_LDAP/conf/ | DynamicServices.xml |
| 5 | \$FIC_HOME/utility/OFSAAGenerateRepository/conf/ | DynamicServices.xml |
| 6 | \$FIC_HOME/ficweb/webroot/conf/ | DynamicServices.xml |
| 7 | \$FIC_HOME/EXEWebService/Tomcat/ROOT/conf/ | DynamicServices.xml |
| 8 | \$FIC_HOME/EXEWebService/WebSphere/ROOT/conf/ | DynamicServices.xml |
| 9 | \$FIC_HOME/EXEWebService/weblogic/ROOT/conf/ | DynamicServices.xml |
| 10 | \$FIC_HOME/commonscripts/ | ofs_aai_create_atomic.ora |

NOTE

- Based on the Web Application Server, choose the relevant directory path from Sl. No. 7, 8, or 9 from the preceding table.
- The file mentioned in Sl. No. 10 is not applicable for new installations (are not upgrade installations from previous versions) of the OFS AAI versions 8.0.6 and higher. However, it is mandatory for OFS AAI upgrade installations for version 8.0.2.x.x and higher.

3. Execute the following one-off patch steps:

NOTE

- This step is applicable for new installations (are not upgrade installations from previous versions) of the OFS AAI versions 8.0.6 and higher.
- Skip this step for OFS AAI versions 8.0.5.4.x and lower since it is not required.
- a. Log in to https://support.oracle.com/ and search for the one-off patch 30828901 under the Patches & Updates tab.
- **b.** Download the patch and apply it. See the *Readme.txt* file packaged with the patch for details on how to apply it.
- **c.** Enter details for the following information when prompted:

```
Enter Connect String :
newofsaaatm/<PASSWORD>@OFSA12nDB
Enter Folder Path:
```

```
/scratch/ofsaaapp/tmp_stage
Enter new Config Schema name:
newofsaaconf
Enter infodom name:
OFSAAAIINFO
```

After entering the details, the patch creates the SQLScripts_OFSAAI_\$INFODOM directory, replaces placeholder values in the metadom files, and then executes SQL scripts in the metaschema as mentioned in the connect string.

4. Execute scripts on the Atomic Schemas to update the new Target Config database user name as mentioned in the following steps:

NOTE

This step is not applicable for new installations (are not upgrade installations from previous versions) of the OFS AAI versions 8.0.6 and higher. However, it is mandatory for OFS AAI upgrade installations for version 8.0.2.x.x and higher.

- **a.** On the *Putty* console, navigate to the \$FIC_HOME/commonscripts/ path on the OFS AAI server.
- b. Create a copy of the file ofs_aai_create_atomic.ora as ofs_aai_create_atomic_<INFODOM>.ora.
- **c.** Replace the \$INFODOM placeholder with the actual infodom name in the file ofs_aai_create_atomic_<INFODOM>.ora.

NOTE

Enclose the actual infodom name within a single quote.

INFODOM is associated with each Atomic Schema. Therefore, you must create individual files for each Atomic Schema.

You can fetch the INFODOM value associated with each Atomic Schema by executing the following query in the newly modified Config Schema.

```
SQL> select h.dbuserid, g.dsnid from dsnmaster g, db_master h where g.dbname = h.dbname and h.dbname <> 'CONFIG';
```

- **d.** Connect to the Atomic Schemas using the sqlplus utility of the <code>\$ORACLE_HOME/bin</code> directory.
- e. Execute the ofs_aai_create_atomic_<INFODOM>.ora file and ignore the ORA-00001 and ORA-02292 errors in the log file. If there are other errors, contact My Oracle Support.

```
SQL> spool aai_create_<INFODOM>.log
SQL> @ofs_aai_create_atomic_<INFODOM>.ora
SQL> spool off
SQL> exit;
```

NOTE

Repeat this step for all the Atomic Schemas.

```
After the execution, delete all the files created as ofs_aai_create_atomic_<INFODOM>.ora.
```

f. Log in to the newly imported Atomic Schemas. Perform the following steps on each Atomic Schema to modify the interdependent object:

Run the following query in each Atomic Schema for the verification of invalid object status:

```
select object_type, object_name from user_objects
where object_type in ('FUNCTION','PACKAGE','PACKAGE
BODY','PROCEDURE','TRIGGER','VIEW') and status = 'INVALID'
order by object type , object name;
```

If the preceding query lists out the objects, then you can compile the invalid objects and enable the object registration elements by following these steps:

i. Run the following anonymous block to compile the invalid objects:

```
BEGIN
  FOR cur rec IN ( select object type, object name from
user objects
where object_type in ('FUNCTION', 'PACKAGE', 'PACKAGE
BODY', 'PROCEDURE', 'TRIGGER', 'VIEW') and status = 'INVALID'
order by object type , object name )
  LOOP
    BEGIN
IF cur rec.object type = 'PACKAGE BODY' THEN
 EXECUTE IMMEDIATE 'ALTER PACKAGE ' || ' "' ||
cur rec.object name || '" COMPILE BODY';
              COMMIT;
              ELSE
 EXECUTE IMMEDIATE 'ALTER ' || cur rec.object type || ' "' ||
cur rec.object name || '" COMPILE';
              COMMIT;
    END IF;
    EXCEPTION
      WHEN OTHERS THEN NULL;
    END;
  END LOOP;
END:
```

ii. Run the following scripts to enable the object registration elements:

```
spool <Validpath>/restore_owner.log
alter table REV TABLES TL disable constraint FK REV TABLES TL 1
```

```
alter table REV TABLE CLASS ASSIGNMENT disable constraint
FK V TABLE CLASS ASSIGNMENT 2
alter table REV TAB COLUMNS disable constraint
FK REV TAB COLUMNS 1
alter table REV TABLE LOG CLASS ASMNT disable constraint
FK V TABLE CLASS LOG ASMNT 2
alter table REV_TAB CONSTRAINTS disable constraint
FK REV TAB CONSTRAINTS
alter table REV TAB CONSTRAINT COLUMNS disable constraint
FK REV TAB CONST COLUMNS
alter table REV TAB INDEXES disable constraint
FK REV TAB INDEXES
update FSI DB INFO set owner=USER
update REV COLUMN PROPERTIES set owner=USER
update REV DESCRIPTION TABLES set owner=USER ,
DESCRIPTION TABLE OWNER=USER
update REV TABLES B set owner=USER
update REV TABLES TL set owner=USER
update REV TABLE CLASS ASSIGNMENT set owner=USER
update REV TAB COLUMNS set owner=USER
update REV TAB COLUMNS MLS set owner=USER
update REV VIRTUAL TABLES set owner=USER
update REV VIRTUAL TABLES MLS set owner=USER
```

```
update REV VIRTUAL TABLES TL set owner=USER
update REV TAB CONSTRAINTS set owner=USER
update REV SYNONYMS set table owner=USER
update REV TABLE LOG CLASS ASMNT set owner=USER
update REV TAB CONSTRAINT COLUMNS set owner=USER
update REV TAB INDEXES set owner=USER
update REV TAB REF CONSTRAINTS set owner=USER
alter table REV TABLE LOG CLASS ASMNT enable constraint
FK V TABLE CLASS LOG ASMNT 2
alter table REV TAB CONSTRAINTS enable constraint
FK_REV_TAB_CONSTRAINTS
alter table REV_TAB_CONSTRAINT_COLUMNS enable constraint
FK_REV_TAB_CONST_COLUMNS
alter table REV TAB INDEXES enable constraint FK REV TAB INDEXES
alter table REV TAB COLUMNS enable constraint
FK REV TAB COLUMNS 1
alter table REV_TABLE_CLASS_ASSIGNMENT enable constraint
FK V TABLE CLASS ASSIGNMENT 2
alter table REV TABLES TL enable constraint FK REV TABLES TL 1
commit
spool off
exit;
```

| applications. | <u>le Support</u> (MOS) if you hav | e any queries related to | the EPM, ERM, ar |
|---------------|------------------------------------|--------------------------|------------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Send Us Your Comments

Oracle welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this manual?

If you find any errors or have any other suggestions for improvement, indicate the title and part number of the documentation along with the chapter/section/page number (if available) and contact the Oracle Support.

Before sending us your comments, you might like to ensure that you have the latest version of the document wherein any of your concerns have already been addressed. You can access My Oracle Support site, which has all the revised/recently released documents.

