## **Oracle Financial Services Profitability Management Pack (OFS PAM PACK)**

Installation and Configuration Guide

Release 8.1.2.0.0

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OFS Profitability Management Pack (OF PAM PACK) Installation and Configuration Guide

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# **Document Control**

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1.0	Dec-2021	Created the document with instructions for the installation of the OFS Profitability Management Pack Release 8.1.2.0.0.
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# 1 Preface

This section provides information about the Oracle Financial Services Profitability Management Pack (OFS PAM Pack) Installation and Configuration Guide.

You can find the latest copy of this document in the <u>OHC Documentation Library</u> which includes all the recent additions and revisions (if any) done to date.

Before you begin the installation, ensure that you have access to <u>My Oracle Support</u> with the required login credentials to quickly notify us of any issues at any stage.

### **Topics:**

- <u>Audience</u>
- How this Guide is Organized
- Access to Oracle Support
- Related Documents
- <u>Conventions</u>
- <u>Abbreviations</u>

## 1.1 Audience

The Oracle Financial Services Profitability Management Pack Installation and Configuration Guide is intended for administrators, and implementation consultants who are responsible for installing and maintaining the application pack components.

Anyone performing the installation is expected to be experienced in installing enterprise components and possess basic knowledge of the following:

- OFS Profitability Management Application Pack components
- OFSAA architecture
- UNIX commands
- Database concepts
- Web server or web application server

## **1.2** How this Guide is Organized?

The Installation Guide consists of the following sections:

- <u>Complete Installation Checklist</u>
- Pre-installation
- Installation
- Post-installation
- <u>Upgrade</u>

• Frequently Asked Questions (FAQs) and Error Dictionary

## **1.3** Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For more information, visit <u>http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info</u> or visit <u>http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs</u> if you are hearing impaired.

## **1.4 Related Documents**

We strive to keep this document and all other related documents updated regularly; visit the <u>OHC</u> <u>Documentation Library</u> to download the latest version available. The list of related documents is provided here.

<u>OHC Documentation Library</u> for the OFS Profitability Management Pack (OFS PAM Pack) Release 8.1.2.0.0:

- OFS Profitability Management Release Notes, Release 8.1.2.0.0
- OFS Profitability Management User Guide Release 8.1.2.0.0
- Oracle Financial Services Profitability Management Security Guide Release 8.1.x
- Oracle Financial Services Profitability Management Application Cloning Guide Release 8.1.x

OHC Documentation Library for OFS AAAI Application Pack:

- OFS Analytical Applications Infrastructure Installation Guide Release 8.1.2.0.0
- OFS Analytical Applications Infrastructure User Guide Release 8.1.2.0.0
- OFS Analytical Applications Infrastructure Environment Check Utility Guide Release 8.1.x
- OFS Analytical Applications Infrastructure Application Pack Administration and Configuration <u>Guide Release 8.1.x</u>
- OFS AAAI Application Security Guide Release 8.1.x
- OFS Analytical Applications Infrastructure Cloning Guide Release 8.1.x
- OFSAA Licensing User Manual, Release 8.1.2.0.0

You can access the common document from the OHC Documentation Library:

- OFS Analytical Applications 8.1.2.0.0 Technology Matrix
- OFS Data Model Utilities Guide
- OFS Cash Flow Engine Reference Guide

## **1.5** Conventions

The following text conventions are used in this document.

**Table 1: Document Conventions** 

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, file names, text that appears on the screen, or text that you enter.
<u>Hyperlink</u>	Hyperlink type indicates the links to external websites and internal document links.

# 1.6 Abbreviations

The following table lists the abbreviations used in this document:

#### **Table 2: Abbreviations**

Abbreviation	Meaning
AIX	Advanced Interactive eXecutive
BDP	Big Data Processing
DBA	Database Administrator
DDL	Data Definition Language
DEFQ	Data Entry Forms and Queries
DML	Data Manipulation Language
EAR	Enterprise Archive
EJB	Enterprise JavaBean
ERM	Enterprise Resource Management
FTP	File Transfer Protocol
HDFS	Hadoop Distributed File System
HTTPS	Hypertext Transfer Protocol Secure
J2C	J2EE Connector
J2EE	Java 2 Enterprise Edition
JCE	Java Cryptography Extension
JDBC	Java Database Connectivity
JDK	Java Development Kit
JNDI	Java Naming and Directory Interface
JRE	Java Runtime Environment

Abbreviation	Meaning
JVM	Java Virtual Machine
LDAP	Lightweight Directory Access Protocol
LHS	Left Hand Side
MFA	Multi-Factor Authentication
MOS	My Oracle Support
OFSAA	Oracle Financial Services Analytical Applications
OFSAAI	Oracle Financial Services Analytical Application Infrastructure
OFSAAAI	Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack
онс	Oracle Help Center
OLAP	On-Line Analytical Processing
OLH	Oracle Loader for Hadoop
ORAAH	Oracle R Advanced Analytics for Hadoop
OS	Operating System
RAM	Random Access Memory
RDBMS	Relational Database Management System
RHEL	Red Hat Enterprise Linux
SFTP	Secure File Transfer Protocol
SID	System Identifier
SSL	Secure Sockets Layer
TNS	Transparent Network Substrate
URL	Uniform Resource Locator
VM	Virtual Machine
WAR	Web Archive
XML	Extensible Markup Language

# About Oracle Financial Services Analytical Applications (OFSAA)

In today's turbulent markets, financial institutions require a better understanding of their risk-return, while strengthening competitive advantage and enhancing long-term customer value. Oracle Financial Services Analytical Applications (OFSAA) enable financial institutions to measure and meet risk-adjusted performance objectives, cultivate a risk management culture through transparency, lower the costs of compliance and regulation, and improve insight into customer behavior.

OFSAA uses industry-leading analytical methods, shared data models, and applications architecture to enable integrated risk management, performance management, customer insight, and compliance management. OFSAA actively incorporates risk into decision making, enables to achieve a consistent view of performance, promote a transparent risk management culture, and provide pervasive intelligence.

Oracle Financial Services Analytical Applications delivers a comprehensive, integrated suite of financial services analytical applications for both banking and insurance domains.

The following figure depicts the various application packs that are available across the OFSAA Banking and Insurance domains.

### Figure 1: OFSAA Application Packs

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#### ORACLE FINANCIAL SERVICES ANALYTICAL APPLICATIONS INFRASTRUCTURE (OFS AAI)



#### Topics:

- Oracle Financial Services Analytical Applications Infrastructure (OFS AAI)
- OFS Profitability Management Pack

## 2.1 Oracle Financial Services Analytical Applications Infrastructure (OFS AAI)

Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) powers the Oracle Financial Services Analytical Applications family of products to perform the processing, categorizing, selection,

and manipulation of data and information required to analyze, understand and report on specific performance, risk, compliance, and customer insight issues by providing a strong foundation for the entire family of Oracle Financial Services Analytical Applications across the domains of Risk, Performance, Compliance and Customer Insight.

## 2.1.1 Components of OFSAA Infrastructure

The OFSAA Infrastructure includes frameworks that operate on and with the Oracle Financial Services Analytical Applications Data Model and forms the array of components within the Infrastructure.

The OFSAA Infrastructure components/frameworks are installed as two layers; primarily, the metadata server and Infrastructure services run on one layer, while the UI and presentation logic run on the other. The UI and presentation layer are deployed on any of the supported J2EE Servers.

The following figure depicts the various frameworks and capabilities that make up the OFSAA Infrastructure.



### Figure 2: Components of OFSAAI

## 2.1.2 OFSAA Infrastructure High Availability

The current release of the OFSAA Infrastructure supports only the "Single Instance" installation for the Infrastructure components. However, the High Availability (HA) for the Database Server and/ or the Web application server clustering and deployment is supported in this release.

This release supports the Active-Passive model of implementation for OFSAAI components. For more information, see the <u>Oracle Financial Services Analytical Applications Configuration for High</u> <u>Availability Best Practices Guide</u>.

## 2.1.3 Deployment Topology

The following figure illustrates the deployment topology of OFSAA application packs.





# 2.2 OFS Profitability Management Pack (OFS PAM Pack)

OFS Profitability Management Pack (OFS PAM Pack) includes the following applications:

- **Financial Services Analytical Applications Infrastructure**: This application powers the Oracle Financial Services Analytical Applications family of products to perform the processing, categorizing, selection, and manipulation of data and information required to analyze, understand and report on specific performance, risk, compliance, and customer insight issues by providing a strong foundation for the entire family of Oracle Financial Services Analytical Applications across the domains of Risk, Performance, Compliance and Customer Insight.
- Oracle Financial Services Profitability Management: OFS Profitability Management helps Banks and Financial Services Institutions measure and manage profitability at the lowest level of detail - the account level, allowing for a rollup of profitability results across any dimension including customer, channel, product, or organizational unit. The application provides robust allocation functionality supporting both top-down and bottom-up allocation methodologies and allows the user to construct customized solutions to generate multidimensional Management Accounting profitability views including but not limited to the Organizational View, the Product View, the Customer View, and the Channel View.

# 2.3 OFS AAI Extension Pack

The Oracle Financial Services Analytical Applications Infrastructure Extension (OFS AAIE) Pack adds a set of new advanced features for the 8.1.2.0.0 Release across OFSAA applications. This pack can be installed on an OFSAA instance having one or more OFSAA application packs.

The Oracle Financial Services Analytical Applications Infrastructure Extension Pack includes the following advanced features and functionalities:

- Distributed Processing Capabilities
- Analytic Pipeline and Process models
- Attribution Analysis
- Content Management Interoperability Services

**NOTE** The pack is enabled by the procurement of an additional license. For more information, see the OFS AAIE Release Notes and Installation Guide on the <u>OHC Documentation Library</u>.

# 2.4 Installation Overview

Release 8.1.2.0.0 of OFS Profitability Management Pack (OFS PAM Pack) supports fresh installation and also upgrades from versions 8.1.1.x.0.

The following illustration shows the sequence of steps you need to follow to perform the installation.

#### Figure 4: Installation Flow of OFSAA Application Packs



# 3 Complete Installation Checklist

For a successful installation, perform the steps listed in the Complete Installation Checklist. You can use this checklist to have a quick glance at everything that you will be doing to install this application. The link provided in each step takes you to a section either within this document or to another referenced document.

SI. No.	Pre-installation Activity
1	Install all the prerequisite hardware and software given in the Tech Stack.
2	Verify the System Environment using the Environment Check Utility.
3	Configure the Database Instance settings.
4	Install and configure the web application server.
5	Configure the HTTP settings on the webserver.
6	<ul> <li><u>Create</u> the Installation, Download, and Metadata Repository Directories:</li> <li>Installation directory</li> <li>Temporary directory</li> <li>Staging Area/Metadata Repository</li> <li>Download directory</li> </ul>
7	<ul> <li><u>Configure</u> the following Operating System and File System settings:</li> <li>File Descriptor</li> <li>Total number of processes</li> <li>Port(s)</li> <li>.profile file permissions</li> <li>Add FTP/SFTP configuration for file transfer</li> </ul>
8	<ul> <li>Update the following Environment Settings required for the installation in the .profile file:</li> <li>Java Settings</li> <li>Oracle Database Server and Client Settings</li> <li>Add TNS entries in the tnsnames.ora file</li> <li>Oracle Essbase Settings</li> <li>Time Zone Settings</li> </ul>
9	Download the installer kit and erwin data models.
10	Perform prerequisites for installation.

### **Table 3: Pre-installation Checklist**

### Table 4: Installation Checklist

SI. No.	Installation Activity
1	Extract the installer kit.
2	Configure the OFS_PAM_PACK.xml file.

SI. No.	Installation Activity
3	Configure the OFS_PAM_SCHEMA_IN.xml file.
4	Execute the Schema Creator Utility in Offline, Online, or TCPS modes and verify the log file.
5	Configure the OFSAAI_InstallConfig.xml file.
6	Configure the Silent.props file.
7	Trigger the application installation.

### Table 5: Post-installation Checklist

SI. No.	Post-installation Activity
1	Verify the installation logs.
2	Back up the SCHEMA_CREATOR.xml,OFS_PAM_SCHEMA_OUTPUT.xml, and Silent.props files.
3	Stop the OFSAA Infrastructure services.
4	Create and deploy EAR/WAR files.
5	Start the OFSAA Infrastructure services.
6	Configure the webserver.
7	Configure the Resource Reference in web application servers.
8	Configure the Work Manager in the Web Application Servers.
9	Access the OFSAA application.
10	OFSAA Landing Page
11	Configure the excludeURLList.cfg file.
12	Change the ICC batch ownership.
13	Create Application Users.
14	Map the Application User(s) to User Groups.
15	Set TDE and Data Redaction in OFSAAI.
16	Implement Data Protection in OFSAA.

### Table 6: Additional Configuration

Sl. No.	Additional Configuration Activity
1	Add the FTP/SFTP configuration for file transfer.
2	Configure the Infrastructure Server Memory.
3	Retrieve the Patch Information
4	Change IP/Hostname, Ports, Deployed Paths of the OFSAA Instance.

SI. No.	Additional Configuration Activity
5	Configure the Infrastructure LDAP.
6	Configure and deploy the OFSAAI web services.
7	Enable the parallel execution of DML statements.
8	Configure the message details in the Forms Designer.
9	Clear the application cache.
10	Configure the password changes.
11	Configure the Java Virtual Machine.
12	Configure the internal service (Document Upload/Download).

# 4 Hardware and Software Requirements

This section describes the Operating Systems, Database, Web Servers, and Web Application Server versions, and other variants on which this release of the OFS Profitability Management Pack (OFS PAM Pack) is qualified.

Topics:

- Third-Party Licensing Information
- <u>Verify System Environment</u>

**NOTE** OFS Analytical Applications Profitability Management Pack installation can be performed on both Virtual and Physical servers.

See the <u>OFSAA Technology Matrix</u> for the hardware and software required to install OFS Profitability Management Pack (OFS PAM Pack) Release 8.1.2.0.0.

The following software combinations are recommended.

Operating System	Database	Web Application Server	Web Server
Oracle Linux	Oracle Database	Oracle WebLogic Server/ Apache Tomcat Server/ IBM WebSphere Application Server	Oracle HTTP Server/ Apache HTTP Server/ IBM HTTP Server
Oracle Solaris	Oracle Database	Oracle WebLogic Server/ Apache Tomcat Server	Oracle HTTP Server/ Apache HTTP Server

### Table 7: Recommended Software Combinations

# 4.1 Third-party Licensing Information

For details on the third-party software tools used in OFS Profitability Management Pack (OFS PAM Pack) Pack, see the OFSAA Licensing Information User Manual Release 8.1.2.0.0.

## 4.2 Verify System Environment

To verify that your system environment meets the minimum requirements for the installation, a Pre-Install Check Utility is available within the Install Kit archive file. This utility notifies you if any requirements are not met.

It can also be obtained separately by contacting Oracle Support Services.

Though the system environment verification is an integral and automated part of the installation of this software product, Oracle strongly recommends running this utility before beginning the installation as part of your organization's "Installation Readiness Verification Process".

For more details on the download and usage of this utility, see the <u>Oracle Financial Services Analytical</u> <u>Applications Infrastructure Environment Check Utility Guide</u>.

# 4.3 Web Server Settings

This is an optional requirement. If you have installed an HTTP Server, then configure the appropriate HTTP server settings:

### Table 8: Web Server Settings

Description	Example Value
Apache HTTP Server/ Oracle HTTP Server/ IBM HTTP Server	Configure the HTTP Server and note down the IP/ Hostname and Port details as you will be prompted to enter these details during installation. <b>NOTE:</b> See the <u>Configure the Web Server</u> section for the Web Server configuration.

# 5 Pre-installation

This section contains the pre-installation requirements to install the OFS Profitability Management Pack (OFS PAM Pack).

**Topics:** 

- Pre-installation Checklist
- Hardware and Software Requirements and Specifications
- Preparing for Installation
- <u>Compatibility Matrix</u>

# 5.1 **Pre-installation Checklist**

You can use this checklist to have a quick glance at everything that you will be doing before installing this application. The link provided in each step takes you to a section either within this document or to another referenced document.

#### **Table 9: Pre-installation Checklist**

#### **Pre-installation Checklist**

Sl. No.	Pre-installation Activity
1	Install all the prerequisite hardware and software given in the Tech Stack.
2	Verify the System Environment using the Environment Check Utility.
3	Configure the Database Instance settings.
4	Install and configure the web application server.
5	Configure the HTTP settings on the webserver.
6	Create the Installation, Download, and Metadata Repository Directories:
	Installation directory
	Temporary directory
	Staging Area/Metadata Repository
	Download directory
7	Configure the following Operating System and File System settings:
	File Descriptor
	Total number of processes
	Port(s)
	• .profile file permissions
	Add FTP/SFTP configuration for file transfer

SI. No.	Pre-installation Activity
8	Update the following Environment Settings required for the installation in the .profile file:
	Java Settings
	Oracle Database Server and Client Settings
	<ul> <li>Add TNS entries in the tnsnames.ora file</li> </ul>
	Oracle Essbase Settings
	Time Zone Settings
9	Download the installer kit and erwin data models.
10	Perform prerequisites for installation.

# 5.2 **Preparing for Installation**

This section describes how to download the installer and the mandatory prerequisites you must ensure before installing the OFS Profitability Management Pack (OFS PAM Pack).

## 5.2.1 Download the OFS Profitability Management Pack Installer and Erwin Data Models

To download the OFS Profitability Management Pack (OFS PAM Pack) Installer Release v8.1.2.0.0, follow these steps:

- 1. Log in to <u>My Oracle Support</u>. In the **Patches and Updates** tab, search for the Patch ID **33383864**.under the tab.
  - To perform a simple search using the Number/Name or Bug Number (Simple), type the Patch ID (33383864) in the Patch Name or Number field.

Figure 5: Patches and Updates Tab – Simple Search

Patch Search						- 63-
Search Saved Sear	rches	Recent Searches				
Number/Name or Bug Number (Simple) Product or Family (Advanced)	and	Patch Name or Number ♥ Ø is Platform ♥ Ø is	*	32508224		
JD Edwards Patches	Clear	Save			Searc	:h

 To perform an advanced search using the Product or Family (Advanced) name, type the product name (Oracle Financial Services Profitability Management Pack) in the Product field, and then select the Release number.

Figure 6: Patches & Updates Tab – Advanced Search

Patch Search							
Search Saved Sea	rches	Recent Searches					
Number/Name or Bug Number (Simple) Product or Family (Advanced)	and and and	Platform	Product Release	0	is is is		•
						Show recommended patches only Exclude superseded patches	
JD Edwards Patches	Clear	Save					Search

- 2. Click Search.
- **3.** Download the installer archive and copy (in Binary mode) to the download directory in the setup identified for OFS Profitability Management Pack (OFS PAM Pack) installation.
- 4. Download the following Erwin Data Model from My Oracle Support:
  - OFS Profitability Management Pack (OFS PAM Pack) erwin data model: Patch ID 33762501.

NOTE	Data model patches are now released at the granularity of each application. This is in contrast to the strategy followed for OFS PFT Applications Pack 8.0.x releases, where data model patches were only released at the pack level. Customers must download the data models as per the application licenses they hold and merge with the custom data model.			
	<ul> <li>The installer will only upload the data model of the selected applications. Data models of the unselected or unlicensed applications will not be uploaded, that is data model upload is skipped for the unselected or unlicensed applications.</li> </ul>			
	<ul> <li>The installer will only execute the installer scripts of the selected applications. Scripts of the unselected or unlicensed applications will not be executed and are skipped.</li> </ul>			
	<ul> <li>If all applications in the pack are selected, then the installer handles both the data model upload and the installation scripts execution.</li> </ul>			

**5.** Before proceeding with the domain creation, download and install the required one-off Patch or the latest WLS PSU for 14.1.1 from My oracle Support (Doc ID <u>2806740.2</u>). For more information, refer to Configure WebLogic for Application Deployment in <u>OFS AAI Installation Guide</u>.

### 5.2.2 Prerequisites for Installation

Before beginning the installation, ensure that:

• You have executed the .profile file.

 The FICServer is up and running. For information on restarting the services, see the Start the Infrastructure Services section in the OFS Advanced Analytical Applications Infrastructure Release 8.1.2.0.0 Installation and Configuration Guide.

# 5.3 Compatibility Matrix

This table lists the applications or app combinations that must not be installed on a single Infodom (pack-on-pack scenario).

### Table 10: Compatibility Matrix

If you are installing	Do not install
OFS Profitability Management Pack (OFS	OFS Behavior Detection (OFS BD)
PAM PACK)	OFS Compliance Regulatory Reporting (OFS CRR)

NOTE	If you are upgrading the OFSAA Application Pack to release v8.1.2.0.0, you must upgrade the other packs installed in the same environment to release v8.1.2.0.0, to ensure successful deployment.
	For example, If you are upgrading the OFS Profitability Management Pack (OFS PAM Pack) to release v8.1.2.0.0, you must upgrade the other packs (ALM, IFRS, and so on) installed in the same environment to release v8.1.2.0.0, to ensure successful deployment.

# 6 Installation

**NOTE** Ensure that you install all the Oracle Enterprise Performance Management application pack on a single infodom.

This section provides detailed steps to install the OFS Profitability Management Pack (OFS PAM Pack).

### **Topics:**

- Installation Checklist
- Extract the Software
- <u>Configure the OFS\_PAM\_PACK.xml File</u>
- <u>Configure Schema Creator Utility</u>
- <u>Configure the OFSAAI\_InstallConfig.xml File</u>
- Configure the Silent.props file
- Install the OFS PAM Pack

## 6.1 Installation Checklist

You can use this checklist to have a quick glance at everything that you will be doing to install this application. The link provided in each step takes you to a section either within this document or to another referenced document.

Sl. No.	Installation Activity
1	Extract the installer kit.
2	Configure the OFS_PAM_PACK.xml file.
3	Configure the OFS_PAM_SCHEMA_IN.xml file.
4	Execute the Schema Creator Utility in Offline, Online, or TCPS modes and verify the log file.
5	Configure the OFSAAI_InstallConfig.xml file.
6	Configure the Silent.props file.
7	Trigger the application installation.

## 6.2 Extract the Software

You must be logged in to the UNIX operating system as a non-root user to perform the following steps.

1. If you already have an unzip utility to extract the contents of the downloaded archive, skip this step.

Download the unzip utility (OS-specific) unzip\_<os>. Z and copy it in Binary mode to the directory that is included in your PATH variable.

Uncompress the unzip installer file with the command:

```
uncompress unzip <os>.Z
```

**NOTE** If an error message "uncompress: not found [No such file or directory]" is displayed, contact your UNIX administrator.

2. Assign 751 permission to the file using the following command:

```
chmod 751 unzip_<OS>
```

For example chmod 751 unzip sparc

**3.** Extract the contents of the OFS Profitability Management Pack (OFS PAM Pack) Release 8.1.2.0.0 installer archive file in the download directory using the following command:

unzip OFS PAM PACK.zip

**4.** Navigate to the download directory and assign 755 permission to the installer directory using the following command:

chmod -R 755 OFS PAM Pack

# 6.3 Configure the OFS\_PAM\_PACK.xml File

This section provides information about the tags and parameters available in the OFS\_PAM\_PACK.xml file and the values you must update before installing the OFS Profitability Management Pack (OFS PAM Pack).

To configure the OFS PAM PACK.xml file, follow these steps:

- 1. Navigate to the OFS\_PAM\_PACK/conf directory.
- 2. Open the OFS PAM PACK.xml file in a text editor.





3. Configure the OFT\_PAM\_PACK.xml file as mentioned in the following table.

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Comments
APP_PACK_ID	Unique Application Pack Identifier	Y	Unique Seeded Value. Do not modify this value.
APP_PACK_NAME	Unique Application Pack Name	Υ	Unique Seeded Value. Do not modify this value.
APP_PACK_DESCRIPTION	Unique Application Pack Description	Y	Unique Seeded Value. Do not modify this value.
VERSION	Unique release version	Y	Unique Seeded Value. Do not modify this value.
APP	Unique Application Entries	Y	Unique Seeded Value. Do not modify this value.
APP_ID	Unique Application Identifier	Υ	Unique Seeded Value. Do not modify this value.
APP_ID/ PREREQ	Prerequisite Application or Product	Y	Unique Seeded Value. Do not modify this value.
APP_ID/ DEF_SEL_FLAG	Default Selected Flag	Y	In all Application Packs, Infrastructure would have this value set to YES. Do not modify this value.
APP_ID/ ENABLE	Enable Application or Product	Y	Default YES for Infrastructure
APP_NAME	Unique Application or Product Name	Y	Unique Seeded Value. Do not modify this value.
APP_DESCRIPTION	Unique Application or Product Name	Y	Unique Seeded Value. Do not modify this value.

Table 12: OFT\_PAM\_PACK.xml File Parameters

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Comments
VERSION	Unique release version	Y	Unique Seeded Value. Do not modify this value.

**4.** Save and close the file.

## 6.4 Configure the Schema Creator Utility

Creating database users/schemas (RDBMS) is one of the primary steps in the complete OFS Profitability Management Pack (OFS PAM Pack) installation process. The Schema Creator utility enables you to quickly get started with the installation by creating Database User (or Users) or Schema (or Schemas) (RDBMS), assigning the necessary GRANT (or Grants), creating the required entities in the schemas, and so on.

Configure and execute the schema creator utility before installing the OFS Profitability Management Pack (OFS PAM Pack).

### **Topics:**

- <u>Prerequisites</u>
- <u>Configure Schema Creator Utility for RDBMS Installation</u>
- Execute the Schema Creator Utility

### 6.4.1 Prerequisites

To configure the Schema Creator Utility, ensure that you obtain the following details:

- Oracle User ID and Password with SYSDBA privileges
- JDBC Connection URL for RAC or Non-RAC database
- The HOSTNAME and IP of the server on which OFSAA is being installed.

### 6.4.2 Configure the Schema Creator Utility for RDBMS Installation

If the installation is performed for RDBMS, provide the application-specific schema details in the OFS PAM SCHEMA IN.xml file.

You can configure the following schema types:

- **CONFIG**: This schema holds the entities and other objects required for OFSAA setup configuration information. Only one CONFIG schema per OFSAA instance.
- **ATOMIC**: This schema holds the data model entities. One ATOMIC schema is attached to one Information Domain. You can have multiple ATOMIC schemas for a single OFSAA instance.

### 6.4.2.1 Configure the OFS\_PAM\_SCHEMA\_IN.xml File

This section describes how to create database schemas, objects within schemas, and assign appropriate grants.

Specify the database schemas required for the installation in the OFS\_PAM\_SCHEMA\_IN.xml. Update the required values in this file before executing the Schema Creator Utility.

To configure the OFS PAM SCHEMA IN.xml file, follow these steps:

- 1. Log in to the system as a non-root user.
- 2. Navigate to the OFS PAM PACK/schema creator/conf directory.
- **3.** Edit the OFS\_PAM\_SCHEMA\_IN.XML file using a text editor and configure the values as mentioned in the following table.

Figure 8: Sample OFS\_PAM\_SCHEMA\_IN.xml File

```
<APPPACKSCHEMA>
   <app pack id>ofs pam pack</app pack id>
   <IS TCPS>FALSE</IS TCPS>
   <JDBC URL></JDBC URL>
   <JDBC DRIVER>oracle.jdbc.driver.OracleDriver</JDBC DRIVER>
   <HOST><<HOST NAME>></HOST>
   <setupinfo name="dev" prefix schema name="y"/>
   <PASSWORD APPLYSAMEFORALL="Y" DEFAULT="" />
   <!-- Uncomment for data encryption and redaction -->
<!--
   <ADV SEC OPTIONS>
        <option NAME="TDE" VALUE="FALSE"/>
        <OPTION NAME="DATA REDACT" VALUE="TRUE" />
   </ADV SEC OPTIONS>
-->
    <TABLESPACES>
        <TABLESPACE NAME="OFSAA CONF TBSP" VALUE="OFSAA CONF" DATAFILE="" SIZE="128M" AUTOEXTEND="ON"
       ENCRYPT="OFF" />
       <TABLESPACE NAME="OFSAA DATA TBSP" VALUE="OFSAA DATA" DATAFILE="" SIZE="512M" AUTOEXTEND="ON"
       ENCRYPT="OFF" />
   </TABLESPACES>
   <SCHEMAS>
        <SCHEMA TYPE="CONFIG" NAME="" PASSWORD="" APP ID="OFS AAI" DEFAULTTABLESPACE=</pre>
        "##OFSAA CONF TBSP##" TEMPTABLESPACE="TEMP" QUOTA="UNLIMITED" />
        <SCHEMA TYPE="ATOMIC" NAME="" PASSWORD="" APP ID="OFS PFT" APP GRP="1" INFODOM=""</pre>
        DEFAULTTABLESPACE="##OFSAA DATA TBSP##" TEMPTABLESPACE="TEMP" QUOTA="UNLIMITED" />
   </SCHEMAS>
</APPPACKSCHEMA>
```

Table 13: OFS\_PAM\_SCHEMA\_IN.xml file (APPPACKSCHEMA Parameters)

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Default Value or Permissible Value	Comments
<app_pack_id></app_pack_id>	Seeded unique ID for the OFS Application Pack.	Y	Seeded	Do not modify this value.
<is_tcps></is_tcps>	Enter if the TCPS configuration is required.	Y	Seeded, with FALSE as the default value.	Modify this to TRUE if you require the installer to uptake the configuration.

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Default Value or Permissible Value	Comments
<jdbc_url></jdbc_url>	Enter the JDBC URL. You can enter the RAC/ NON-RAC enabled database connectivity URL.	Y	Example: jdbc:oracle:thin:@ <dbserver <br="" host="" ip="">IP&gt;:<port>:<sid> or jdbc:oracle:thin:@//[HOS T][:PORT]/ SERVICE or jdbc:oracle:thin:@(DESCRI PTION=(ADDRESS_LIST=(ADDRESS=(PROT OCOL=TCP)(HOST=[HO ST])(port=[PORT]))(ADD RESS=(PROTOCOL=TCP) (HOST=[HOST])(PORT=[ PORT]))(LOAD_ BALANCE=yes)(FAILOV ER=yes))(CONNECT_ DATA=(SERVICE_NAME=[SERVICE]))) For example: jdbc:oracle:thin:@//dbhos t.server.com:1521/service 1 or jdbc:oracle:thin:@//dbsho st.server.com:1521/scan-1 or jdbc:oracle:thin:@(DESCRI PTION=(ADDRESS_LIST=(ADDRESS=(PROT OCOL=TCP)(HOST=dbho st1.server.com)(port=1521) )(ADDRESS=(PROTOCO L=TCP)(HOST=dbhost2.s erver.com)(PORT=1521))(LOAD_ BALANCE=yes)(FAILOV ER=yes))(CONNECT_ DATA=(SERVICE_</sid></port></dbserver>	Ensure that you add an entry (with SID/ SERVICE NAME) in the tnsnames.ora file on the OFSAA server. The entry must match the SID/ SERVICE NAME used in the JDBC URL. Ensure that you have configured: 1. The correct Oracle Wallet with the credentials for stored Sys, Config, and Atomic Users. 2. The JDBC URL as follows: jdbc:oracle:thin:/@ For more information on how to configure Oracle Wallets for OFSAA Installation and Data Sources, see the OFS Analytical Applications Infrastructure Administration Guide.

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Default Value or Permissible Value	Comments
<jdbc_driver></jdbc_driver>	The name of the driver is seeded.	Y	Example: oracle.jdbc.driver.OracleDriver	Only JDBC Thin Driver is supported. Do not modify this value.
<host></host>	Enter the Hostname/ IP Address of the system on which you are installing the OFSAA components.	Y	Host Name/IP Address	
<setupinfo>/PREFIX_S CHEMA_NAME</setupinfo>	Identifies whether the value specified in <setupinfo>/NAM E attribute must be prefixed to the schema name.</setupinfo>	N	YES or NO	The default value is YES.
<setupinfo>/NAME</setupinfo>	Enter the acronym for the type of implementation. This information is displayed on the OFSAA Home Page. On executing the schema creator utility, this value is prefixed with each schema name. For example: dev_ofsaaconf, uat_ofsaatm.	Y	Accepts strings with a minimum length of two and a maximum of four. Example: DEV, SIT, PROD	This message appears in the OFSAA Landing Page as "Connected To: DEV". The schemas being created get this prefix. For example, dev_nameconf, uat_nameconf, and so on.

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Default Value or Permissible Value	Comments
<password>/ DEFAULT*</password>	Enter the password if you want to set a default password for all schemas. You also must set the APPLYSAMEFORALL attribute as Y to apply the default password for all the schemas.	Ν	The maximum length allowed is 30 characters. Special characters are not allowed.	On successful execution of the utility, the entered password in the OFS_PAM_SCHEMA_IN.xml file is nullified.
<password>/ APPLYSAMEFORALL</password>	If you have entered Y in the APPLYSAMEFORALL attribute and also have specified individual passwords for all the schemas, then the specified individual passwords will take precedence.	Y	Default value: N Permissible value: Y or N Enter Y if you want to apply the password specified in the DEFAULT attribute for all the schemas. If you enter N, provide individual passwords for all schemas.	Setting this attribute value is mandatory if the DEFAULT attribute is set.
<schema>/TYPE</schema>	The types of schemas supported in this release are ATOMIC, CONFIG, SANDBOX, and ADDON. By default, the schema types are seeded based on the Application Pack.	Y	ATOMIC/CONFIG/SANDBOX/ADDON SANDBOX and ADDON schemas do not apply to OFS_PAM_PACK.	Only One CONFIG schema can exist in the file. Do not edit this attribute value. This schema identifies as the CONFIGURATION schema that holds the OFSAA setup details and other Metadata information. Multiple ATOMIC/ SANDBOX/ADDON schemas can exist in the file.

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Default Value or Permissible Value	Comments
<schema>/NAME</schema>	The schemas' names are seeded based on the Application Pack by default. You can edit the schema names if required. The Schema Name will have a prefix of the SETUPINFO/ NAME attribute. SCHEMA NAME must be the same for all the ATOMIC Schemas of the applications within an Application Pack.	Y	The permissible length is 15 characters and only alphanumeric characters are allowed. No special characters are allowed except underscore	The SETUPOINFO/NAME attribute value is prefixed to the schema name being created. For example, if a name is set as 'ofsaatm' and setupinfo as 'uat', then the schema created is 'uat_ofsaatm'. NAME must be the same where APP_GRP=1 for all SCHEMA tags (not applicable for this Application).
<schema>/PASSWORD</schema>	Enter the password of the schema to be created. If this attribute is left blank, then the password specified in the <password>/DEFA ULT attribute is taken as the Schema Password.</password>	Ν	The maximum length allowed is 30 characters. Special characters are not allowed.	It is mandatory to enter the password if you have set the <password>/ APPLYSAMEFORALL attribute as N.</password>
<schema>/APP_ID</schema>	The Application ID is seeded based on the Application.	Y	Unique Seeded Value	Identifies the Application/ Product for which the schema is being created. Do not modify this attribute value.

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Default Value or Permissible Value	Comments
<schema>/DEFAULTTA BLESPACE</schema>	Enter the available default tablespace for DB User. If this attribute is left blank, then USERS is set as the default tablespace.	Ν	Default value: USERS Permissible value: Any existing valid tablespace name.	Modify this value to associate any valid tablespace with the schema.
<schema>/TEMPTABLE SPACE</schema>	Enter the available temporary tablespace for DB User. If this attribute is left bank, TEMP is set as the default tablespace.	N	Default value: TEMP Permissible value: Any existing valid temporary tablespace name.	Modify this value to associate any valid tablespace with the schema.
<schema>/QUOTA</schema>	Enter the quota to be set on the DEFAULTTABLESPA CE attribute for the schema/ user. By default, the quota size is set to 500M. Minimum: 500M or Unlimited on default tablespace.	N	Example: 600M or 600m 20G or 20g UNLIMITED or unlimited	Modify this value to grant the specified quota on the mentioned tablespace to the user.

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Default Value or Permissible Value	Comments
<schema>/ INFODOM</schema>	Enter the name of the Information Domain to associate this schema. The schema creator utility automatically derives an Information Domain Name based on the Application Pack if no value is specified for this attribute.	N	The permissible length is 16 characters and only alphanumeric characters are allowed. No special characters are allowed.	
<adv_sec_options>/</adv_sec_options>	Parent tag to hold Advance Security Options.	N	NA	Uncomment the tag and edit if you want to add security options. For example, TDE and Data Redact. For details, see the example following the rows.
<adv_sec_options>/T DE</adv_sec_options>	Tag to enable/disable TDE feature.	N	The default value is FALSE. To enable TDE, set this value to TRUE.	Ensure this tag is not commented if you have uncommented <adv_sec_options>.</adv_sec_options>
<adv_sec_options>/D ATA_REDACT</adv_sec_options>	Tag to enable/disable the Data Redaction feature.	N	The default value is FALSE. To enable DATA_REDACT, set this value to TRUE.	Ensure this tag is not commented if you have uncommented <adv_sec_options>.</adv_sec_options>
<tablespaces></tablespaces>	Parent tag to hold <tablespace> elements</tablespace>	N	NA	By default, this tag is uncommented. Edit only if tablespaces are to be created as part of the installation.
				For details, see the example that
				When TDE is TRUE in ADV_SEC_OPTIONS, the <tablespaces> tag must be present in the XML file.</tablespaces>
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CONFIGURE THE SCHEMA CREATOR UTILITY

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Default Value or Permissible Value	Comments
<tablespace>/NAME</tablespace>	Logical Name of the tablespace to be created.	Y	OFSAA_CONF_TBSP OFSAA_DATA_TBSP	Name, if specified, must be referred in the <schema DEFAULTTABLESPACE= "##NAME##"&gt; attribute. Note the ## syntax.</schema 
<tablespace>/VALUE</tablespace>	Physical Name of the tablespace to be created.	Y	NA	Value, if specified, is the actual name of the TABLESPACE.
<tablespace>/DATAFI LE</tablespace>	Specifies the location of the data file on the server.	Y	NA	Enter the absolute path of the file to be created.
<tablespace>/AUTOE XTEND</tablespace>	Specifies if the tablespace must be extensible or have a hard limit.	Y	ON or OFF	Set to ON to ensure that the tablespace does not run out of space when full.
<tablespace>/ENCRYP T</tablespace>	Specifies if the tablespace (or tablespaces) must be	Y	ON or OFF	Set to ON to ensure that the tablespaces when created are encrypted using TDE.
	encrypted using TDE.			<b>NOTE</b> : Encryption of tablespaces requires enabling Transparent Data Encryption (TDE) on the Database Server.

#### **4.** Save and close the file.

Example: The following snippet shows that TDE is enabled and hence the tablespace is shown with encryption ON.

<ADV\_SEC\_OPTIONS>
<OPTION NAME="TDE" VALUE="TRUE"/>
<OPTION NAME="DATA\_REDACT" VALUE="TRUE"/>
</ADV\_SEC\_OPTIONS>
<TABLESPACES>

<TABLESPACE NAME="OFS\_AAI\_TBSP\_1" VALUE="TS\_USERS1" DATAFILE="/</pre>

scratch/ora12c/app/oracle/oradata/OFSPQA12CDB/ts\_users1.dbf" SIZE="500M" AUTOEXTEND="ON"
ENCRYPT="ON" />

<TABLESPACE NAME="OFS AAI TBSP 2" VALUE="TS USERS2" DATAFILE="/

scratch/ora12c/app/oracle/oradata/OFSPQA12CDB/ts\_users2.dbf" SIZE="500M" AUTOEXTEND="ON"
ENCRYPT="ON" />

</TABLESPACES>

<SCHEMAS>

<SCHEMA TYPE="CONFIG" NAME="ofsaaconf" PASSWORD="" APP\_ID="OFS\_AAI" DEFAULTTABLESPACE="##OFS AAI TBSP 1##" TEMPTABLESPACE="TEMP"

QUOTA="unlimited"/>

<SCHEMA TYPE="ATOMIC" NAME="ofsaaatm" PASSWORD="" APP\_ID="OFS\_AAAI" DEFAULTTABLESPACE="##OFS\_AAI\_TBSP\_2##" TEMPTABLESPACE="TEMP" QUOTA="unlimited" INFODOM="OFSAAAIINFO"/>

</SCHEMAS>

\_\_\_\_\_

### 6.5 Execute the Schema Creator Utility

Depending on your requirement, select the appropriate schema creator utility execution option.

**Topics:** 

- Execute the Schema Creator Utility in Offline Mode
- Execute the Schema Creator Utility in Online Mode
- Execute the Schema Creator Utility in TCPS Mode
- Execute the Schema Creator Utility while Installing Subsequent Applications Pack

### 6.5.1 Execute the Schema Creator Utility in Offline Mode

Choose the Offline Mode option if you do not have login credentials to the database with SYSDBA privileges.

In this mode, the utility generates an SQL script with all the required DDLs for Users, Objects, and Grants. That script must be executed by the DBA on the appropriate database identified for OFSAA usage.

To execute the schema creator utility in the offline mode, you must have the following privileges:

- SELECT ON DBA\_ROLES
- SELECT ON DBA\_USERS
- SELECT ON DBA\_DIRECTORIES
- SELECT ON DBA\_TABLESPACES
- CREATE SESSION

**NOTE** Explicit Grants to the User are required. Grants assigned through Roles are not supported.

To execute the schema creator utility in the offline mode, follow these steps:

- 1. Log in to the system as a non-root user.
- 2. Navigate to the OFS\_PAM\_PACK/schema\_creator/bin directory.
- **3.** Execute the osc.sh file using the following command:

./osc.sh -o -s

The following message is displayed:

You have chosen OFFLINE mode. Triggering the utility in OFFLINE mode will generate the script. Do you wish to proceed? (Y/y or N/n).

Enter Y to proceed.

- 4. Enter the DB Username with SELECT privileges.
- **5.** Enter the User Password.

The console runs the initial validation checks and displays the following message:

You have chosen to install this Application Pack on <Name of the Atomic Schema> ATOMIC schema. Do you want to proceed? (Y/N).

6. Enter **Y** to start the script generation.

The following message is displayed:

You have chosen to install this Application Pack on <Name of the Infodom>. Do you want to proceed? (Y/N).

Enter Y to proceed.

Figure 9: Schema Creation in Offline Mode - Script Generation



On successful execution of the schema creator utility, the console displays the following status message:

#### Schema Creator executed successfully. Execute the file

scratch/ofsaaapp/OFS\_PAM\_PACK/schema\_creator/sysdba\_output\_scripts.sql
before proceeding with the installation.

**NOTE** If there are any errors during the SQL script execution, reconfigure the OFS\_PAM\_SCHEMA\_IN.xml file and repeat steps in this procedure to execute the utility. This regenerates the script with the correct information.

- 7. Navigate to the OFS PAM PACK/schema creator directory.
- 8. Log in to the database using credentials with SYSDBA privileges.
- 9. Execute the sysdba\_output\_scripts.sql file using the following command:

@sysdba\_output\_scripts.sql

Alternatively, you can copy the sysdba\_output\_scripts.sql file and SQLScripts folder to a remote server, and execute the sysdba\_output\_scripts.sql file after providing appropriate execute permissions.

**NOTE** See the sysdba\_output\_scripts.log file for execution status. If there are any errors, contact <u>My Oracle Support</u>. If there are no errors in the execution, the log file is empty.

As a result of this procedure, the OFS\_PAM\_SHCEMA\_OUTPUT.XML file is generated. Do not modify this file.

### 6.5.2 Execute the Schema Creator Utility in Online Mode

In Online mode, the utility connects to the database and executes the DDLs for Users, Objects, and Grants. If you have SYSDBA privileges you can execute the Schema Creator Utility in Online mode and thereby create the Users, Objects, and Grants during the execution process. To execute the utility in the Online mode, you must connect as "<User> AS SYSDBA".

To execute the utility in Online mode, follow these steps:

- 1. Log in to the system as a non-root user.
- 2. Navigate to the OFS\_PAM\_PACK/schema\_creator/bin directory.
- **3.** Execute the utility.

For Example: ./osc.sh -s

The OFS PAM SCHEMA OUTPUT.XML file is successfully generated. Do not modify this file.

### 6.5.3 Execute the Schema Creator Utility in TCPS Mode

If you intend to run the OFS Profitability Management Pack (OFS PAM Pack) Installer in TCPS mode, it is mandatory to execute the schema creator utility with the -s option and in the Online mode.

#### 6.5.3.1 Prerequisites

The following are the prerequisites for this configuration:

- 1. UNIX user credentials used for installing OFSAA.
- 2. UNIX user credentials with which Web Application Server (Oracle WebLogic (WLS)/Apache Tomcat/ IBM WebSphere) was installed.
- **3.** OFSAAI version must be 8.1.2.0.0 or later.
- **4.** Ensure OFSAA installed and deployed has JAVA 8 (Java version must support Java unlimited cryptographic policy. Java version 1.8.0\_161+ supports the unlimited cryptographic policy.)
- 5. Create Oracle Wallet on the OFSAA processing tier.

For information on Creating and Managing Oracle Wallet, see <u>https://blogs.oracle.com/dev2dev/ssl-connection-to-oracle-db-using-jdbc,-tlsv12,-jks-or-oracle-wallets</u> and <u>https://blogs.oracle.com/weblogicserver/weblogic-jdbc-use-of-oracle-wallet-for-ssl.</u>

**6.** Configure the Oracle Wallet with trusted certificates between the database server with TCPS configured and the database client to enable communication through the SSL protocol. For

example, all the database utils such as sqlplus, thsping, and sqlldr must work between the Client and the Server.

#### 6.5.3.1.1 Configure OFSAA to Store Config Schema, Atomic Schema, and SysDBA Credentials with Oracle Wallet

To configure OFSAA to store the Config and Atomic schema credentials with Oracle Wallet, follow these steps:

- 1. Log in as a UNIX user with permission to modify the Oracle Wallet.
- **2.** Execute the following command to configure Config Schema credentials. Enter the password to store the credentials in the Wallet when prompted.

```
$ORACLE_HOME/bin/mkstore -wrl <WALLET_HOME> -createCredential -nologo
CONFIG <CONFIG DATABASE USERNAME> <CONFIG DATABASE PASSWORD>
```

**3.** Execute the following command to configure the Atomic Schema credentials, Enter the password to store the credentials in the Wallet when prompted.

```
$ORACLE_HOME/bin/mkstore -wrl <WALLET_HOME> -createCredential -nologo
<ATOMICALIASNAME> <ATOMIC_DATABASE_USERNAME>
<ATOMIC_DATABASE_PASSWORD>
```

**4.** Configure SysDBA credentials. Execute the following command to configure SysDBA Schema credentials. Enter the password to store the credentials in the Wallet when prompted.

```
$ORACLE_HOME/bin/mkstore -wrl <WALLET_HOME> -createCredential -nologo
SYS <SYS DATABASE USERNAME> <SYS DATABASE PASSWORD>
```

**NOTE** ATOMICALIASNAME value is a TNS alias for Atomic Schema and must not contain underscores.

For example, if the Atomic Schema Name is PROD\_OFSAAATM, then the value for ATOMICALIASNAME must be entered as PRODOFSAAATM.

For more detailed information about configuring Wallet with OFSAA, see the *Configuring OFSAA and various Web Application Servers with Oracle Wallet* section in the <u>OFS Analytical Applications</u> Infrastructure Application Pack Administration and Configuration Guide Release 8.1.x.

#### 6.5.3.2 Execute the Schema Creator Utility

To execute the utility, follow these steps:

- 1. Edit the OFS\_PAM\_PACK/schema\_creator/conf/OFS\_PAM\_SCHEMA\_IN.xml file in a text editor. See the tables in <u>Configure the OFS\_PAM\_SCHEMA\_IN.xml File</u> for the values that you must modify in the XML file.
- 2. Execute the utility with the -s option.

./osc.sh -s TCPS <WALLET\_HOME>
For example: \$ ./osc.sh -s TCPS /scratch/oraofss/wallet

Figure 10: Schema Creation in the TCPS Mode

/scratch/aai81ssl>cd /scratch/aai81ssl/OFS_AAAI_PACK/schema_creator/bin /scratch/aai81ssl/OFS_AAAI_PACK/schema_creator/bin>./osc.sh TCPS /scratch/aai81ss1/wallet Error: - Please provide proper arguments
/scratch/aai81ss1/OF5_AAAI_FACK/schema_creator/bin>./osc.sh -s TCP5 /scratch/aai81ss1/wallet -S
TCPS
/scratch/aai81ss1/wallet
-Doracle.net.tns_admin=/scratch/aai8lssl -Doracle.net.wallet_location=(SOURCE=(METHOD=file)(METHOD_DATA=(DIRECTORY=/scratc h/aai8lssl/wallet))) -Doracle.net.ssl_server_dn_match=true -Djavax.net.ssl.trustStoreType=SSO -Djavax.net.ssl.trustStore=c wallet.sso -Doracle.net.ssl_version=1.2 exporting wallet FALSE
You have chosen ONLINE mode
Triggering the utility in ONLINE mode will execute the DDLs directly on the Database. Do you wish to proceed? (Y/N):

The following message is displayed:

Triggering the utility in ONLINE mode will execute the DDLS directly on the Database. Do you wish to proceed? (Y/y or N/n).

3. Enter Y to proceed.

The following message is displayed:

You have chosen to install this application pack on the "<ATOMIC\_SCHEMA\_NAME>" ATOMIC schema. Do you wish to proceed? (Y/y or N/n).

Figure 11: Schema	a Creation in the	TCPS Mode -	Install on Atomic	Schema
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0430:	58	8D	05	B2	02	0F	2D	01	0C	00	00	00	00	00	00	04	X
0440:	: 01	01	02	23	E4	00	02	05	7B	00	00	01	0C	01	0E	03	ŧ
0450	00	00	00	00	00	00	00	00	00	00	00	00	10	00	01	01	
0460	00	00	00	00	02	05	7B	00	19	4F	52	41	2D	30	31	34	ORA-014
0470:	30	33	3A	20	6E	бF	20	64	61	74	61	20	66	6F	75	6E	03: no data foun
0480:	64	0A	61	1D	D5	6D	51	10	60	C1	A6	85	<b>B4</b>	88	52	OF	d.amQ.`R.
0490:	A4	F8	CA	<b>1</b> B	2C	F2	09	09	09	09	09	09	09	09	09	09	,
You h	nave	cho	sei	1 to	o in	nsta	11	this	App	lid	cat:	ion	Pac	ck d	on '	"t81:	s_ofsaaatm" ATOMIC schema. Do you want to proceed? (Y/N)
Y																	

- **4.** Enter Y to proceed.
- 5. After Schema creation is successful, proceed to Configure the OFSAAI\_InstallConfig.xml File.

Figure 12: Schema Creation in the TCPS Mode

Schemas Creation Completed Schema Creator executed Successfully.Please proceed with the installation.																
Grants creation scripts execution completed																
4F	69	$\mathbf{FD}$	59	9F	23	09	09	09	09	09	09	09	09	09	09	Oi.Y.#
00	00	EE	63	D9	C7	F0	3C	<b>A</b> 2	23	E1	34	68	01	68	96	c<.#.4h.h.
00	00	00	00	00	00	00	00	58	00	01	01	00	00	00	00	X
05	02	24	2C	0.0	00	00	00	01	10	00	2B	00	00	00	00	\$,+
	05 00 00 4F	05 02 00 00 00 00 4F 69	05 02 24 00 00 00 00 00 EE 4F 69 FD	05 02 24 2C 00 00 00 00 00 00 EE 63 4F 69 FD 59	05 02 24 2C 00 00 00 00 00 00 00 00 EE 63 D9 4F 69 FD 59 9F	05 02 24 2C 00 00 00 00 00 00 00 00 00 00 EE 63 D9 C7 4F 69 FD 59 9F 23 creation scripts	05 02 24 2C 00 00 00 00 00 00 00 00 00 00 00 00 EE 63 D9 C7 F0 4F 69 FD 59 9F 23 09 s creation scripts exe	05 02 24 2C 00 00 00 00 00 00 00 00 00 00 00 00 00 00	05 02 24 2C 00 00 00 00 01 00 00 00 00 00 00 00 00 58 00 00 EE 63 D9 C7 F0 3C A2 4F 69 FD 59 9F 23 09 09 09 s creation scripts execution of	05       02       24       2C       00       00       00       01       10         00       00       00       00       00       00       00       00       58       00         00       00       00       00       00       00       00       58       00         00       00       EE       63       D9       C7       F0       3C       A2       23         4F       69       FD       59       9F       23       09       09       09       09         acreation       acripta       execution       common       common       common       common	05       02       24       2C       00       00       00       01       10       00         00 <t< td=""><td>05       02       24       2C       00       00       00       01       10       00       2B         00       00       00       00       00       00       00       00       58       00       01       01         00       00       00       00       00       00       00       58       00       01       01         00       00       EE       63       D9       C7       F0       3C       A2       23       E1       34         4F       69       FD       59       9F       23       09       03       03</td><td>05       02       24       2C       00       00       00       01       10       00       2B       00         00       00       00       00       00       00       00       58       00       01       01       00         00       00       00       00       00       00       00       58       00       01       01       00         00       00       E       63       D9       C7       F0       3C       A2       23       E1       34       68         4F       69       FD       59       9F       23       09</td><td>05       02       24       2C       00       00       00       01       10       02       2B       00       <td< td=""><td>05       02       24       2C       00       00       00       01       10       00       2B       00       <td< td=""><td>05       02       24       2C       00       00       00       01       10       02       2B       00       <td< td=""></td<></td></td<></td></td<></td></t<>	05       02       24       2C       00       00       00       01       10       00       2B         00       00       00       00       00       00       00       00       58       00       01       01         00       00       00       00       00       00       00       58       00       01       01         00       00       EE       63       D9       C7       F0       3C       A2       23       E1       34         4F       69       FD       59       9F       23       09       03       03	05       02       24       2C       00       00       00       01       10       00       2B       00         00       00       00       00       00       00       00       58       00       01       01       00         00       00       00       00       00       00       00       58       00       01       01       00         00       00       E       63       D9       C7       F0       3C       A2       23       E1       34       68         4F       69       FD       59       9F       23       09	05       02       24       2C       00       00       00       01       10       02       2B       00 <td< td=""><td>05       02       24       2C       00       00       00       01       10       00       2B       00       <td< td=""><td>05       02       24       2C       00       00       00       01       10       02       2B       00       <td< td=""></td<></td></td<></td></td<>	05       02       24       2C       00       00       00       01       10       00       2B       00 <td< td=""><td>05       02       24       2C       00       00       00       01       10       02       2B       00       <td< td=""></td<></td></td<>	05       02       24       2C       00       00       00       01       10       02       2B       00 <td< td=""></td<>

6. After the installation is completed, delete the ojdbc7.jar file from the web-INF folder which will be located in the deployed web-app/folder.

The result of this task is that the <pack>\_SCHEMA\_OUTPUT.XML file is generated. Do not modify this file.

#### 6.5.4 Execute the Schema Creator Utility when Installing the Subsequent Applications Pack

You can execute the Schema Creator Utility either in the Online or Offline modes.

To execute the Schema Creator Utility while creating the schemas for a subsequent application pack, follow these steps:

- 1. Edit the OFS\_PAM\_PACK/schema\_creator/conf/OFS\_PAM\_SCHEMA\_IN.xml file in a text editor. See the OFS\_PAM\_SCHEMA\_IN.xml file for values you must modify in the XML file.
- **2.** Execute the utility.

For Example: ./osc.sh -s

#### Figure 13: Schema Creator Utility



NOTE

You must use the same config schema user name as the previous application pack.

- **3.** The utility identifies the application packs that are already installed on the current OFSAA setup and displays the following on the console:
  - Atomic schema of the existing application pack
  - Information Domain Name of the existing pack
  - List of installed application packs
- 4. Select the Atomic User on which you want to install the application pack.

#### Figure 14: Select the Atomic User

You have chosen OFFLINE mode.	
Enter the DB User Name with SELECT privileges on following tabl	Les
1. DBA_ROLES	
2. DBA_USERS	
3. DBA_DIRECTORIES	
4. DBA_TABLESPACES	
sample	
Enter the User Password:	
Schemas Creation Started	
OFSAAI installation status	
OFSAAI is not installed	
validating the dat file OFS_AAAI_CFG.dat started	
Sucessfully validated OFS_AAAI_CFG.dat file	
Validating the input XML file/scratch/	/schema_creator/conf/OFS_AAAI_SCHEMA_IN.xml
XSD validation completed successfully.	
Prechecks Execution started on OFS ADAT SCHEMA IN.xml	
Validating Connection URL idbc:oracle:thin:@	MEDIADB
Successfully connected to User - sample URL - idbc:oracle:thin:	MEDIADB
Connection IIRL successfully validated	
You have chosen to install this Application Back on "	" ATOMIC scheme Do you want to proceed? (X/N)
Tou have chosen to install this application fack on	ATOMIC Schema. Do you want to proceed? (17N)

On successful execution of the Schema Creator Utility, the console displays the following status message:

Success. Please proceed with the installation.

NOTE	1.	See the log file in the OFS_PAM_PACK/schema_creator/logs directory for the execution status.
	2.	See the sysdba_output_scripts.log file for execution status if executed in offline mode. This log will be empty if there are no errors in the execution.
	3.	If there are any errors, contact <u>My Oracle Support</u> .

### 6.6 Configure the OFSAAI\_InstallConfig.xml File

To configure the OFSAAI\_InstallConfig.xml file, follow these steps:

- 1. Navigate to the OFS\_PAM\_PACK/OFS\_AAI/conf/ folder.
- 2. Open the OFSAAI\_InstallConfig.xml file in a text editor and configure the file as mentioned in the following table.

You must manually set the **InteractionVariable** parameter values as mentioned in the table. If a value is not applicable, enter NA. Ensure that the value is not entered as NULL.

#### Table 14: OFSAA Infrastructure Installation Tasks and Descriptions

InteractionVariable Name	Significance and Expected Value	Mandatory							
<layer name="GENERAL"></layer>									
InteractionGroup name="WebServerType"									
WEBAPPSERVERTYPE	Identifies the web application server on which the OFSAA infrastructure web components are deployed.	Yes							
	Set the following numeric value depending on the type of web application server:								
	Apache Tomcat = 1								
	IBM WebSphere Application Server = 2								
	• Oracle WebLogic Server = 3								
	For example, <interactionvariable< td=""><td></td></interactionvariable<>								
	name="WEBAPPSERVERTYPE">3								
InteractionGroup name="OFS	AA Infrastructure Server Details"								
DBSERVER_IP	Identifies the hostname or IP address of the system on which the Database Engine is hosted.	Yes							
	NOTE: For RAC Database, the value must be NA. For example, <interactionvariable< td=""><td></td></interactionvariable<>								
	<pre>name="DBSERVER_ IP"&gt;14.15.16.17 or</pre>								
	<interactionvariable name="DBSERVER_&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;IP">dbhost.server.com</interactionvariable>								
InteractionGroup name="Data	abase Details"								
ORACLE_SID/SERVICE_NAME	Identifies the Oracle DB Instance SID or SERVICE_NAME	Yes							
	<b>NOTE:</b> The Oracle_SID value must be exactly the same as it is mentioned in JDBC_URL.								
	<pre>For example, <interactionvariable name="ORACLE_SID/SERVICE_&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;NAME">ofsaser</interactionvariable></pre>								
ABS_DRIVER_PATH	Identifies the directory where the JDBC driver (ojdbc <version>.jar) exists. This would</version>	Yes							
	typically be the <code>\$ORACLE_HOME/jdbc/lib</code> directory.								
	<pre>For example, <interactionvariable name="ABS_DRIVER_ PATH">"&gt;/oradata6/revwb7/ oracle </interactionvariable></pre>								

InteractionVariable Name	Significance and Expected Value	Mandatory						
	<b>Note:</b> See the JDBC Jar files to identify the correct <code>ojdbc<version>.jar</version></code> version to be copied.							
InteractionGroup name="OLA								
OLAP_SERVER_ IMPLEMENTATION	<ul> <li>Identifies whether the OFSAA infrastructure OLAP component needs to be configured. It depends on whether you intend to use the OLAP feature. The following numeric value must be set depending on your choice: <ul> <li>YES:1</li> <li>NO:0</li> </ul> </li> <li>Note: If the value for OLAP_SERVER_IMPLEMENTATION is set to 1, the installer checks if the following environment variables are set in the .profile file: <ul> <li>ARBORPATH</li> <li>HYPERION_HOME</li> <li>ESSBASEPATH</li> </ul> </li> </ul>	No						
InteractionGroup name="SFTP Details"								
SFTP_ENABLE	Identifies if the SFTP (Secure File Transfer Protocol) feature is to be enabled. The following numeric value must be set depending on your choice: • SFTP: 1 • FTP: 0	Yes						
<b>NOTE:</b> The default value for SF However, you can ignore this re Set SFTP ENABLE to <b>-1</b> to con	<b>NOTE:</b> The default value for SFTP_ENABLE is <b>1</b> , which signifies that SFTP is used. Oracle recommends using SFTP instead of FTP because SFTP is more secure. However, you can ignore this recommendation and use FTP by setting SFTP_ENABLE to <b>0</b> . You can change this selection later from the OFSAAI administration interfac							
 FILE_TRANSFER_PORT	<pre>Identifies the port used for the file transfer service. The default value specified is 22 (SFTP). Specify a value like 21 or any other PORT value if the value for SFTP_ENABLE is 0. For example, <interactionvariable name="FILE_TRANSFER_ PORT">21</interactionvariable></pre>	Yes						
InteractionGroup name="Loca	ale Detail"							
LOCALE	Identifies the locale information to be used during the installation. This release of the OFSAA Infrastructure supports only US English.	Yes						

InteractionVariable Name	Significance and Expected Value	Mandatory
	<pre>For example, <interactionvariable name="LOCALE">en_US</interactionvariable></pre>	
InteractionGroup name="OFS	AA Infrastructure Communicating ports"	
<b>Note:</b> The following ports are us a different value, update the part	sed internally by the various OFSAA infrastructure services. The default values mentioned are set in the rameter value accordingly, ensure that the port value is in the range 1025 to 65535, and the respective po	installation. If you intend to specify ort is enabled.
JAVAPORT	9999	Yes
NATIVEPORT	6666	Yes
AGENTPORT	6510	Yes
ICCPORT	6507	Yes
ICCNATIVEPORT	6509	Yes
OLAPPORT	10101	Yes
MSGPORT	6501	Yes
ROUTERPORT	6500	Yes
AMPORT	6505	Yes
InteractionGroup name="Web	Details"	
<b>Note:</b> If the value for HTTPS_E For more details on configuring	NABLE is set to <b>1</b> , ensure that you have a valid certificate available from a trusted CA and it is configured your setup for HTTPS.	d on your web application server.
HTTPS_ENABLE	Identifies whether the UI must be accessed using HTTP or HTTPS scheme. The default value is set to <b>0</b> . The numeric value must be set depending on the following options:	Yes
	• YES:1	
	• NU:U	
	name="HTTPS_ENABLE">0	
WEB_SERVER_IP	Identifies the HTTP Server IP/ Hostname or Web Application Server IP/ Hostname, to be used to access the UI. This IP is typically the HTTP Server IP.	No

InteractionVariable Name	Significance and Expected Value	Mandatory
	If a separate HTTP Server is not available, then the value must be Web Application Server IP/Hostname.	
	<pre>For example, <interactionvariable name="WEB_SERVER_ IP">10.11.12.13</interactionvariable></pre>	
	<pre>or    <interactionvariable name="WEB_SERVER_    IP">myweb.server.com</interactionvariable></pre>	
WEB_SERVER_PORT	Identifies the webserver port, which is typically 80 for non-SSL and 443 for SSL. If a separate HTTP server exists, the port value must be the value configured for the webserver.	No
	Warning: The installer will not accept the port value as:	
	• 80, if the HTTPS_ENABLE variable is 1	
	• 443, if the HTTPS_ENABLE variable is 0	
	<pre>For example, <interactionvariable name="WEB_ SERVER_PORT">80</interactionvariable></pre>	
CONTEXT_NAME	Identifies the web application context name which is used to build the URL to access the OFSAA application. You can identify the context name from the following URL format:	Yes
	<scheme>://<host>:<port>/<context-name>/login.jsp</context-name></port></host></scheme>	
	For example:	
	https://myweb:443/ofsaadev/login.jsp	
	For example, <interactionvariable name="CONTEXT_NAME">ofsaadev</interactionvariable>	
WEBAPP_CONTEXT_PATH	Identifies the absolute path of the exploded EAR file on the web application server.	Yes
	<ul> <li>For Tomcat, specify the Tomcat directory path till /webapps. For example: /oradata6/ revwb7/tomcat/webapps/.</li> </ul>	
	• For WebSphere, specify the WebSphere path as <websphere profile<br="">directory&gt;/installedApps/<nodecellname>. For example: / data2/test//WebSphere/AppServer/profiles/<profile_name>/installe dApps/aiximfNode01Cell, where aix-imf is the Host name.</profile_name></nodecellname></websphere>	
	• For WebLogic, specify the WebLogic home directory path. For example: / <weblogic directory="" home="" path="">/bea/wlserver_10.3</weblogic>	
	<b>Note:</b> For WebLogic, the value specified for this attribute is ignored and the value provided against the attribute WEBLOGIC_DOMAIN_HOME is considered.	

InteractionVariable Name	Significance and Expected Value	Mandatory
WEB_LOCAL_PATH	Identifies the absolute path to any directory on the web application server that can hold temporary files, which are uploaded as part of the application's usage.	Yes
	Set this in the FTPSHARE location.	
	<b>Note:</b> During a clustered deployment, ensure that this path and the directory are the same on all the nodes.	
InteractionGroup name="Web	logic Setup Details"	
WEBLOGIC_DOMAIN_HOME	Identifies the WebLogic Domain Home.	Yes.
	<pre>For example, <interactionvariable name="WEBLOGIC_DOMAIN_HOME">/home/weblogic/bea/user_ projects/ domains/mydomain</interactionvariable></pre>	Specify the value only if WEBAPPSERVERTYPE is set as 3 (WebLogic)
InteractionGroup name="OFS	AAI FTP Details"	
OFSAAI_FTPSHARE_PATH	Identifies the absolute path of the directory that is identified as the file system stage area.	Yes
	<b>Note:</b> The directory must exist on the same system on which the OFSAA infrastructure is being installed (can be on a separate mount).	
	The user mentioned in the APP_SFTP_USER_ID parameter in the following example must have RWX permission on the directory.	
	<pre>For example, <interactionvariable name="APP_FTPSHARE_PATH">"&gt;/oradata6/revwb7/ftpshare</interactionvariable></pre>	
OFSAAI_SFTP_USER_ID	Identifies the user who has RWX permissions on the directory identified for the parameter APP_FTPSHARE_PATH.	Yes
OFSAAI_SFTP_PRIVATE_KEY	Identifies the SFTP private key for OFSAAI. For example,	No
	<pre><interactionvariable name="OFSAAI_SFTP_PRIVATE_KEY">/home/ofsaapp/.ssh/id_rsa</interactionvariable></pre>	
	By default, the value is <b>NA</b> , which indicates that for authentication, you are prompted to enter the password for the user <pre>OFSAAI_SFTP_USER_ID&gt;</pre> .	
	For more information on how to generate an SFTP Private key, see the <u>Setting Up SFTP Private Key</u> section.	

InteractionVariable Name	Significance and Expected Value	Mandatory
OFSAAI_SFTP_PASSPHRASE	Identifies the passphrase for the SFTP private key for OFSAAI.	No
	For example:	
	InteractionVariable name="OFSAAI_SFTP_PASSPHRASE">enter a pass phrase here	
	By default, the value is <b>NA</b> .	
	If the OFSAAI_SFTP_PRIVATE_KEY value is given and the OFSAAI_SFTP_PASSPHRASE value is NA, then the passphrase is identified as empty.	

### 6.6.1 Set Up the SFTP Private Key

Log in to OFSAA UNIX user using the Putty tool, where you plan for installation and generate a pair of authentication keys using the ssh-keygen command. If required, set a passphrase. Otherwise, the OFSAAI\_SFTP\_PASSPHRASE tag must be set to NA.

To generate a private key, enter the commands as shown:

```
ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ofsaapp/.ssh/id_rsa):
Created directory '/home/ofsaapp/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ofsaapp/.ssh/id_rsa.
Your public key has been saved in /home/ofsaapp/.ssh/id_rsa.pub.
The key fingerprint is:
3e:4f:05:79:3a:9f:96:7c:3b:ad:e9:58:37:bc:37:e4
ofsaapp@OFSASERVER:~> cat /home/ofsaapp/.ssh/id_rsa.pub >>
/home/ofsaapp/.ssh/authorized keys
```

Ensure the following permissions exist for the given directories:

- permissions of .ssh must be 700
- permissions of .ssh/authorized\_keys must be 640
- permission of .ssh/id\_rsa must be 400
- Permission of UNIX User created must be 755

# 6.7 Configure the Silent.props File

This section is applicable for a new installation of OFS Profitability Management Pack (OFS PAM Pack) Release 8.1.2.0.0. In the installer kit path OFS\_PAM\_PACK/appsLibConfig/conf/, rename the Silent.template file to Silent.props. Edit the Silent.props file and modify only the following parameters.

ΝΟΤΕ	In the Silent.props file, for the pack-on-pack scenario the parameters OFS_PFT_SEGMENT_1_CODE must be the same as the parameter OFS_PFT_SEGMENT_1_CODE of the previously installed application pack.
	Do not modify these parameters if there are no other packs than the OFS Profitability Management Pack (OFS PAM Pack) installed.

#### Figure 15: Sample Silent.props File

\* ### START OF PACK LEVEL INPUTS ######## \*\*\*\*\* # Specify the Infodom Maintenance log path(to be created) for the new Infodom # Please ignore if you are doing installation on an existing information domain APPFTP LOG PATH=/scratch/pam8110/ftpshare DBFTP LOG PATH=/scratch/pam8110/ftpshare # Specify whether you want to perform Model Upload # 0 = If you have already performed Model Upload and want to skip model upload process # 1 = If you want to perform Model Upload UPLOAD MODEL=1 # Specify whether you want to use the released datamodel or customized datamodel for model upload process # 0 = If you want to upload the released datamodel
# 1 = If you want to upload the customized datamodel MODEL\_TYPE=0 # Specify the path(DM DIRECTORY) and file(DATAMODEL) name for the cutomized datamodel # Mandatory only if you want to upload the customized datamodel # i.e you have specified MODEL\_TYPE=1 DATAMODEL= DM DIRECTORY= \* ### END OF PACK\_LEVEL\_INPUTS ########### \*\*\*\*\*\* \*\*\*\*\*\* ### START OF OFS PAM ########## \*\*\*\*\* # Specify the Profitability Management Segment Code OFS PFT SEGMENT 1 CODE=COMMON #Please specify if you want create new ETL App/Src pair or use an existing one. # 0 = If you want to create a new ETL app/src pair # 1 = If you want to use an existing pair OFS PFT ETL APPSRC TYPE=0 # Please give description for the ETL Sources # Mandatory if you want to create new ETL Sources #i.e you have specified ETL APPSRC TYPE=0 #ETL Staging source description
OFS\_PFT\_ETL\_SRC\_1\_DESC=Stagings #ETL Processing source description OFS\_PFT\_ETL\_SRC\_2\_DESC=Processings # Specify the ETL Source Name into ETL Area Definitions will be deployed #ETL Staging source name OFS\_PFT\_ETL\_SRC\_1\_NAME=STAGINGs #ETL Processing source name OFS\_PFT\_ETL\_SRC\_2\_NAME=PROCESSINGs \*\*\*\*\*\* ### END OF OFS PAM ######### \*\*\*\*\*

#### Table 15: Parameters for the Silent.props File

Property Name	Description of Property	Permissible Values	Comments
OFS_PFT_SEGMENT_1_COD E	Segment Code	Not Applicable	Mandatory <b>NOTE</b> : The Segment Code should be in the upper case.

Property Name	Description of Property	Permissible Values	Comments
APPFTP_LOG_PATH	Infodom Maintenance log path (to be created) for the new Infodom for applayer	Not Applicable	<ul> <li># Mandatory if this an App Layer Installation and if you want to create a new infodom.</li> <li># That is, you have specified INSTALL_APP=1 and INFODOM TYPE=0</li> </ul>
DBFTP_LOG_PATH	Infodom Maintenance log path (to be created) for the new Infodom for DBLayer	Not Applicable	<ul> <li># Mandatory if this an App Layer Installation and if you want to create a new infodom.</li> <li># That is, you have specified INSTALL_APP=1 and INFODOM TYPE=0</li> </ul>
UPLOAD_MODEL	To perform the Model Upload.	0: No 1: Yes	Mandatory
MODEL_TYPE	The released data model or a customized data model.	0: Released 1: Customized	Mandatory only if you want to upload the data model.
DATAMODEL	The path for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.
DM_DIRECTORY	The file name for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.
OFS_PFT_ETL_APPSRC_TYP E	Create a new ETL App or Src pair or use an existing one	0 = New 1 = Existing	<ul> <li>#Mandatory if this an App layer installation.</li> <li># That is, you have specified INSTALL_APP=1.</li> <li># 0 = If you want to create a new ETL app or src pair</li> <li># 1 = If you want to use an existing pair</li> <li><b>NOTE</b>: If any other pack is already installed, then specify the value as 1.</li> </ul>
OFS_PFT_ETL_SRC_1_DESC	Description for the ETL Staging source description	Not Applicable	# Mandatory if you want to create a new ETL app or src pair. #That is, you have specified ETL_APPSRC_TYPE=0

Property Name	Description of Property	Permissible Values	Comments
OFS_PFT_ETL_SRC_2_DESC	Description for the ETL Processing source description	Not Applicable	<ul> <li># Mandatory if you want to create a new ETL app or src pair.</li> <li>#That is, you have specified ETL_APPSRC_TYPE=0</li> </ul>
OFS_PFT_ETL_SRC_1_NAME	ETL Staging source name	Not Applicable	This Source must be mapped to the above ETL Application.
OFS_PFT_ETL_SRC_2_NAM E	ETL Processing source name	Not Applicable	This Source must be mapped to the above ETL Application.

# 6.8 Install the OFS Profitability Management Pack (OFS PAM Pack)

ATTENTION	Before you begin the installation, ensure you have configured and executed the following files:		
	1.	Configure the OS File System Settings and Environment Settings in .profile File	
	2.	Configure the OFT_PAM_PACK.xml File	
	3.	Configure the OFS_PAM_SCHEMA_IN.xml File	
	4.	Configure the OFSAAL InstallConfig.xml File (Do not configure this file if an installation of OFSAAL 8.1.2 already exists.)	
	5.	Execute the Schema Creator Utility	
	6.	Configure the Silent.props File	

To install the OFS Profitability Management Pack (OFS PAM Pack), follow these steps:

- 1. Log in to the system as a non-root user.
- 2. Identify a directory for installation and set the same in the user .profile file as follows: FIC\_HOME=<OFSAA Installation Directory> export FIC HOME
- 3. Execute the user .profile file.
  - . ./.profile
- 4. Navigate to the OFS\_PAM\_PACK/bin directory.

**ATTENTION** Do not install the new applications in the same segment if the preinstalled applications use the Run Management functionality of OFSAAI.

5. Enter the following command in the console to execute the application pack installer.

./setup.sh SILENT

The installer proceeds with the pre-installation checks.

#### Figure 16: Installation



**6.** Enter the OFSAA Processing Tier FTP/SFTP password value when prompted in the Command Prompt and proceed.

Figure 17: OFSAA Processing Tier FTP/SFTP password



7. The process displays the OFSAA License. Enter **Y** and proceed.

Figure 18: OFSAA License Agreement



8. The installer installs the OFS AAI application.

Figure 19: OFS AAI Installation



**9.** After OFS AAI is installed, the OFS Profitability Management Pack (OFS PAM Pack) installation begins.

Figure 20: OFS Profitability Management Installation

```
***********************
Welcome to OFS PAM PACK Installation
Starting OFSAA Service ...
OFSAA Service - OK
Preparing to install ...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...
Launching installer...
Preparing SILENT Mode Installation...
            ______
pack installsilent
                                    (created with InstallAnywhere)
            Installing...
Installation Complete.
failurecount --- 1
Pack Name found is: OFS PAM PACK
[DynamicServiceManager] [GlobalParameters.ISWEB] false
FIC HOME:/scratch/bcuser/OFSAA/
Pack ID got for Synch is OFS_PAM_PACK
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details
```

The OFSAA Infrastructure installation performs a post-install health check automatically on the successful installation of the product.

The following message is displayed in the console: Installation completed

- **10.** To verify if the release is applied successfully, check the log files mentioned in the <u>Verify the</u> <u>Log File Information</u> section.
- **11.** After the installation of OFS Profitability Management Pack (OFS PAM Pack) 8.1.2.0.0 is successful, complete the required <u>Post-installation</u> steps.

# 7 Post-installation

After the successful installation of the OFS Profitability Management Pack (OFS PAM Pack) Release 8.1.2.0.0, follow the post-installation procedures.

**Topics:** 

- Post-installation Checklist
- Verify the Log File Information
- Backup the SCHEMA\_CREATOR.xml, OFS\_PAM\_SCHEMA\_OUTPUT.xml, and Silent.props Files
- <u>Change the ICC Batch Ownership</u>
- <u>Configuration for Dimension Management</u>
- Changes for Oracle Database Server 18c and 19C
- Additional Configuration

### 7.1 Post-installation Checklist

You can use this checklist to have a quick glance at everything that you will be doing post-installing this application. The link provided in each step takes you to a section either within this document or to another referenced document.

NOTE

See the *Post-Installation* section in the <u>OFS AAI Release</u> <u>8.1.2.0.0 Installation and Configuration Guide</u> to complete these procedures.

#### Table 16: Post-installation Checklist

SI. No.	Post-installation Activity
1	Verify the installation logs.
2	Back up the SCHEMA_CREATOR.xml,OFS_PAM_SCHEMA_OUTPUT.xml, and Silent.props files.
3	Stop the OFSAA Infrastructure services.
4	Create and deploy EAR/WAR files.
5	Start the OFSAA Infrastructure services.
6	Configure the webserver.
7	Configure the Resource Reference in web application servers.
8	Configure the Work Manager in the Web Application Servers.
9	Access the OFSAA application.
10	OFSAA Landing Page
11	Configure the excludeURLList.cfg file.

Sl. No.	Post-installation Activity
12	Change the ICC batch ownership.
13	Create Application Users.
14	Map the Application User(s) to User Groups.
15	Set TDE and Data Redaction in OFSAAI.
16	Implement Data Protection in OFSAA.

### 7.2 Verify the Log File Information

See the following logs files for more information:

- Pack\_Install.log file in the OFS\_PAM\_PACK/logs/ directory.
- Infrastructure installation log files in the OFS\_PAM\_PACK/OFS\_AAI/logs/ directory.
- OFS\_PFT\_installation.log file in the OFS\_PAM\_PACK/OFS\_PFT/logs directory

```
You can ignore the following errors in the OFS_PAM_PACK/OFS_PAM/logs OFS_PAM_installation_812.err file.
```

```
[ERROR] Object already exists
[ERROR] 'create table FSI MIG OBJ MASTER
[ERROR] Table already has a primary key
 [ERROR] 'alter table FSI MIG OBJ MASTER
add constraint PK FSI MIG OBJ MASTER primary key (OBJECT_TYPE_ID,
APP ID)
[ERROR] Object already exists
 [ERROR] 'create table FSI MIG OBJ DETAILS
[ERROR] Table already has a primary key
[ERROR] 'alter table FSI MIG OBJ DETAILS
add constraint PK FSI MIG OBJ DETAILS primary key (OBJECT TYPE ID,
TABLE NAME)
[ERROR] Object already exists
[ERROR] 'create table FSI MIG OBJ DEPENDENCIES
```

### 7.3 Backup SCHEMA\_CREATOR\_IN.xml, OFS\_PAM\_SCHEMA\_OUTPUT.xml, and Silent.props Files

Back up the SCHEMA\_CREATOR.xml, OFS\_PAM\_SCHEMA\_OUTPUT.xml, and Silent.props files as they can be reused when upgrading existing applications or installing new applications.

Table 17:	Directory	y of Files	to	Backu	p
-----------	-----------	------------	----	-------	---

File Name	Directory	
OFS_PAM_SCHEMA_IN.xml	OFS_PAM_PACK/schema_creator/conf	
OFS_PAM_SHCEMA_OUTPUT.xml	OFS_PAM_PACK/schema_creator/	
Silent.props	OFS_PAM_PACK/appsLibConfig/conf	

#### 7.4

### Updating Atomic Schema Data Source in Web Logic

To Disable the Wrap Data Types for the Atomic schema data source in Weblogic 12.2, execute the following steps:

- 1. In the Change Center of the Administration Console, click Lock & Edit.
- 2. In the Domain Structure tree, expand Services, then select Data Sources.
- 3. On the Summary of Data Sources page, click the data source name.
- 4. Select the Configuration: Connection Pool tab.
- 5. Scroll down and click Advanced to show the advanced connection pool options.
- 6. In Wrap Data Types, de-select the checkbox to disable wrapping.
- 7. Click Save.

- **8.** To activate these changes, in the Change Center of the Administration Console, click Activate Changes.
- 9. Redeploy the Data Source and restart all the services.

### 7.5 Disabling Data Types in Web Logic

By default, data type objects are wrapped with a WebLogic wrapper. You should disable wrapping which can improve performance and allow Profitability Management application to use native driver objects directly.

For detailed instruction to disable the Data Types in Web Logic, see <u>Disable wrapping of data type</u> <u>objects</u>.

### 7.6 Access the OFSAA Application

To access the OFSAA application, follow these steps:

1. Open a browser and enter the URL in the following format:

```
<scheme>://<IP address/ hostname>:<port>/<context-name>/login.jsp
```

For example, https://192.0.2.2/ofsaa/login.jsp

The OFSAA Login window is displayed.

#### Figure 21: OFSAA Login Window

ORACLE <sup>®</sup> Financial Services Analytical Appli	cations	■ <u>About</u>
$\widehat{}$		
	Language US-English 🗸	
	User ID	
	Password	
	Login	
	Version 8.1.1.0.0 Copyright © 1993, 2021, Oracle and/or its affiliates.	

With the installation of every OFSAA Application Pack, there are two seeded user profiles configured in the system:

- SYSADMN System Administrator
- SYSAUTH System Authorizer

The SYSADMN and SYSAUTH users are configured with a default password, which you will require to log in for the first time. See the <u>MOS Doc ID: 2691681.1</u> for the password.

**2.** Log in to the application using the "SYSADMN" User ID and the default password. After the first login, you are prompted to change the password.

**ATTENTION** The password change is required only for a new installation scenario and not for upgrade scenarios.

### 7.7 OFSAA Landing Page

On the successful log-in, the OFSAA Landing page is displayed.

#### Figure 22: OFSAA Landing Page

ORACLE <sup>*</sup> Financial Services Analytical Applications		🌐 歳 US-English 🔻 PFTUSER 🔻 🖧 🙆
APPLICATIONS	<b>*</b>	
	Financial Services Profitability Management Application for Profitability Management	
		Copyright © 1993, 2020 Oracle and/or its affiliates. All rights reserved.

OFSAA Landing page shows the available Applications as tiles, for which a user has access. Click the respective Application tile to launch that particular application. You can change the landing page based on your preference.

### 7.8 View OFSAA Product Licenses after Installation of Application Pack

In an integrated environment, where you have multiple applications installed on the same domain or infrastructure, OFSAAI allows you to see the other licensed applications through the UI. For more information, see the *View OFSAA Product Licenses after Installation of Application Pack* in the <u>OFS</u> <u>Analytical Applications Infrastructure User Guide Release 8.1.2.0.0</u>.</u>

### 7.9 Configuring Tomcat for User Group Authorization, Data Mapping, and Disabling WADL for the Web Service

Users with system authorization roles can access User Group Authorization. However, to make it available on Tomcat web server, you have to perform the following configuration steps:

- 1. Navigate to the \$FIC\_WEB\_HOME/webroot/WEB-INF/ folder and open web.xml file.
- 2. Enter the following in the web.xml file.

```
<init-param>
  <param-name>mappedfile</param-name>
  <param-value>false</param-value>
```

```
</init-param>
```

3. To disable the WADL for the Web Service, navigate to the following snippet in the web.xml file.

#### <servlet>

```
<servlet-name>CommonRESTServlet</servlet-name>
<servlet-
class>org.glassfish.jersey.servlet.ServletContainer</servlet-class>
<init-param>
```

```
<param-name>javax.ws.rs.Application</param-name>
```

```
<param-
value>com.ofs.fsapps.commonapps.util.ApplicationResourceConfig</
param-value>
```

```
</init-param>
```

<load-on-startup>1</load-on-startup>

</servlet>

4. Add the following snippet before the <load-on-startup>1</load-on-startup> attribute.

<init-param>

```
<param-name>jersey.config.server.wadl.disableWadl</param-name>
```

<param-value>true</param-value>

</init-param>

- 5. Save and close the file.
- 6. Restart the server.

### 7.10 Change the ICC Batch Ownership

All the seeded batches in the OFS Profitability Management application are automatically assigned to the SYSADMN user during installation. To see the batches in the Batch Maintenance menu, execute the following query in the Config Schema of the database:

```
begin
AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP ('fromUser','toUser','infodom');
end;
OR
begin
AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP ('fromUser','toUser');
end;
```

#### Where:

- fromUser indicates the user who currently owns the batch
- toUser indicates the user to whom the ownership to be transferred
- infodom is an optional parameter. If specified, the ownership of the batches pertaining to that infodom will be changed.

### 7.11 Changes in .profile file for Solaris Operating System

For the Solaris operating system, do the following changes in the .profile file present in the user's home directory.

• For Solaris Sparc and X86 systems, append the path \$FIC\_DB\_HOME/lib/libC++11/ to
LD LIBRARY PATH variable in the .profile file.

For example:

```
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$FIC_DB_HOME/lib/libC++11
```

• For Solaris Sparc, add the Oracle Developer Studio installed path at the beginning of the LD LIBRARY PATH variable in the .profile file.

For example:

```
LD_LIBRARY_PATH=/opt/SunProd/studio12u6/developerstudio12.6/lib/compile
rs/CC-gcc/lib/sparcv9:$LD_LIBRARY_PATH
```

### 7.12 Configuration for Dimension Management

These configurations are applicable only if you are using the Dimension Management features provided in OFSAAI.

For more details, see the *General Configurations for Dimension Management Module* section in the OFS Analytical Applications Infrastructure Application Pack Administration and Configuration Guide Release 8.1.x.

### 7.13 Changes for Oracle Database Server 18c and 19C

The following changes are required for Oracle Database Server version 18c and 19c:

1. Shutdown OFSAA services.

2. Update the sqlnet.ora file with the following parameters and verify the update to ensure no garbage characters and no spaces are there in the beginning or at the end. This is important to check.

```
SQLNET.ALLOWED_LOGON_VERSION_CLIENT=8
SQLNET.ALLOWED LOGON VERSION SERVER=8
```

- 3. Restart the listener and database service.
- 4. Reset atomic user password on the database.

The command should be run on the database Server as the sysdba account using the following command:

alter user SCHEMA USERNAME identified by SCHEMA PASSWORD;

The same password used initially can be used during the reset.

- 5. Restart OFSAA services and login as sysadmn user and navigate to the Database Details.
- 6. Update the password via the Database Details User Interface and save it.
- **7.** Start OFSAA services.

### 7.14 Additional Configuration

You can use this checklist to have a quick glance at some additional configurations. The link provided in each step takes you to a section either within this document or to another referenced document.

NOTE	See the Additional Configuration section in the OFS AAI
	Release 8.1.2.0.0 Installation and Configuration Guide to
	complete these procedures.

SI. No.	Additional Configuration Activity
1	Add the FTP/SFTP configuration for file transfer.
2	Configure the Infrastructure Server Memory.
3	Retrieve the Patch Information
4	Change IP/Hostname, Ports, Deployed Paths of the OFSAA Instance.
5	Configure the Infrastructure LDAP.
6	Configure and deploy the OFSAAI web services.
7	Enable the parallel execution of DML statements.
8	Configure the message details in the Forms Designer.
9	Clear the application cache.
10	Configure the password changes.
11	Configure the Java Virtual Machine.

Sl. No.	Additional Configuration Activity
12	Configure the internal service (Document Upload/Download).

# 8 Upgrade

**Topics:** 

- Upgrade Scenarios
- Prepare for Upgrade
- Post Upgrade Steps

## 8.1 Upgrade Scenarios

The possible upgrade scenarios and a high-level sequence of steps to complete the upgrade are summarized in this section.

#### Table 19: Upgrade Scenarios

Scenario	Upgrade Instructions
Upgrade from OFS Profitability Management	<ol> <li>Run the <u>Environment Check Utility</u> tool and ensure that the hardware and</li></ol>
8.1.10 to OFS Profitability Management Pack	software requirements are installed as per the <u>OFS Analytical</u>
(OFS PAM Pack) 8.1.2.0.0	<u>Applications Technology Matrix</u> . <li>Update the Silent.props file present in the Release 8.1.2.0.0 pack.</li> <li>Trigger the Release 8.1.2.0.0 installation.</li>
Upgrade from OFS Profitability Management	<ol> <li>Run the <u>Environment Check Utility</u> tool and ensure that the hardware and</li></ol>
8.1.1.1.0 to OFS Profitability Management Pack	software requirements are installed as per the <u>OFS Analytical</u>
(OFS PAM Pack) 8.1.2.0.0	<u>Applications Technology Matrix</u> . <li>Update the Silent.props file present in the Release 8.1.2.0.0 pack.</li> <li>Trigger the Release 8.1.2.0.0 installation.</li>

### 8.2 Prepare for Upgrade

Before you install/upgrade any of your application packs to Release v8.1.2.0.0, ensure that all the application packs in your current OFSAA instance are available in Release v8.1.2.0.0 or later version. Contact <u>My Oracle Support</u> for more information about the release version details.

ATTENTION	The minimum supported version is 8.1.1.0.0. If upgrading from a release before 8.1.0.0.0, then first upgrade to 8.1.1.0.0 or
	later. After this step, you can upgrade to 8.1.2.0.0.

- 1. Back up the OFSAA schemas from the Oracle Database server.
- 2. Backup the following environment files:
  - OFS\_PAM\_PACK.xml from the OFS\_PAM\_PACK/conf directory
  - OFS\_PAM\_SCHEMA\_IN.xml from the OFS\_PAM\_PACK/schema\_creator/conf directory

- OFSAAI InstallConfig.xml from the /OFS PAM PACK/OFS AAI/conf directory
- 3. See the <u>OFS Analytical Applications Technology Matrix</u>, Release 8.1.2.0.0 for the hardware and software required to upgrade to OFS AAAI Release 8.1.2.0.0.
- **4.** Enable unlimited cryptographic policy for Java. For more information, see the *Enabling Unlimited Cryptographic Policy* section in the <u>OFS Analytical Applications Infrastructure</u> <u>Administration and Configuration Guide</u>.
- 5. In an integrated environment where OFS Profitability Management Pack (OFS PAM Pack) exists with the OFS Balance Sheet Planning (OFS BSP) and or OFS Asset Liability Management (OFS ALM), execute the following SQL script on the ATOMIC schema to avoid the data model upload failure:

```
update rev_tables_b set version=0 where version is null;
commit;
```

**6.** If you are uploading the packaged data model with the installer, execute the following script in the atomic schema:

```
DECLARE
   tbl check NUMBER;
BEGIN
Select count(*) into tbl check from user tables where
table name='FSI IRCS';
   IF( tbl check=1) THEN
   for i in (SELECT CONSTRAINT NAME, TABLE NAME FROM USER CONSTRAINTS
   WHERE R CONSTRAINT NAME = (SELECT CONSTRAINT NAME FROM
   USER CONSTRAINTS WHERE TABLE NAME='FSI IRCS' AND
   CONSTRAINT TYPE='P'))
LOOP
   execute immediate 'ALTER TABLE '||i.table name||' DISABLE CONSTRAINT
   '||i.constraint name||'';
end loop;
   execute immediate 'ALTER TABLE FSI CURRENCIES DROP CONSTRAINT
   FK FSI CURRENCIES 2';
END IF;
EXCEPTION
WHEN OTHERS THEN
   dbms output.put line(sqlerrm);
END;
```

### 8.2.1 Update the Silent.props File

Update the Silent.props file present in the Release 8.1.2.0.0 pack. In the installer kit path OFS\_PAM\_PACK/appsLibConfig/conf/, rename the Silent.template file to Silent.props. Edit the Silent.props file and modify only the following parameters.

Most parameters in the Silent.props file for 8.1.2.0.0 have default values. Before triggering the installation, ensure that you review them thoroughly and update them as required.

- 1. Navigate to the OFS\_PAM\_PACK/appsLibConfig/conf directory.
- 2. Open the Silent.props file and edit only the following parameters:

Property Name	Description of Property	Permissible Values	Comments
UPLOAD_MODEL	Whether you want to perform the Model Upload.	0: No 1: Yes	Mandatory
MODEL_TYPE	The released data model or a customized data model.	0: Released 1: Customized	Mandatory only if you want to upload the data model.
DATAMODEL	The path for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.
DM_DIRECTORY	The file name for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.
OFS_PFT_ETL_APPSRC_ TYPE	Create a new ETL App or Src pair or use an existing one	0 = New 1 = Existing	<ul> <li>#Mandatory if this an App layer installation.</li> <li>In case of an upgrade, this value must be 1.</li> <li># That is, you have specified INSTALL_APP=1.</li> <li># 0 = If you want to create a new ETL app or src pair</li> <li># 1 = If you want to use an existing pair</li> </ul>

#### Table 20: Parameters for the Silent.props File

NOTE

Do not modify any other parameters in the Silent.props file other than those mentioned in the previous table in case of an upgrade.

#### 8.2.2 Trigger the Installation

To trigger the installation, follow these steps:

- 1. Navigate to OFS PAM PACK/bin folder.
- 2. Enter the following command in the console to execute the application pack installer.

./setup.sh SILENT

The installer proceeds with the pre-installation checks.

3. The OFS AAAI installation begins.

Figure 23: OFS Profitability Management Installation



Data Model Upload may take several hours to complete.

Figure 24: Installation In Progress


**4.** The following message is displayed in the console:

Installation completed.

#### 8.2.3 Verify the Log File Information

See the following logs files for more information:

- Pack\_Install.log file in the OFS\_PAM\_PACK/logs/ directory.
- Infrastructure installation log files in the OFS PAM PACK/OFS AAI/logs/directory.
- OFS PFT installation.log file in the OFS PAM PACK/OFS PFT/logs directory

### 8.3 Post Upgrade Steps

Perform the following steps after completing the upgrade.

#### 8.3.1 Remove ContextDocLoader from the web.xml File

To remove the ContextDocLoader from the web.xml file, follow these steps:

- 1. Navigate to the \$FIC\_WEB\_HOME/webroot/WEB-INF folder.
- 2. Open the web.xml file in a text editor.
- 3. Search for ContextDocLoader parameter and remove the following servlet entry:

\_\_\_\_\_

<servlet>

<servlet-name>context</servlet-name>

4. <u>Create and deploy</u> the EAR/WAR files.

#### 8.3.2 Verify FSI\_DB\_INFO Entries

After completing the upgrade process, verify data for the correct schema name (OWNER) and Tablespace (OUTPUT\_TABLESPACE) values in the FSI\_DB\_INFO table in the atomic schema.

### 8.4 Changes in .profile file for Solaris Operating System

For the Solaris operating system, do the following changes in the .profile file present in the user's home directory.

• For Solaris Sparc and X86 systems, append the path \$FIC\_DB\_HOME/lib/libC++11/ to
LD\_LIBRARY\_PATH variable in the .profile file.

For example:

LD\_LIBRARY\_PATH=\$LD\_LIBRARY\_PATH:\$FIC\_DB\_HOME/lib/libC++11

• For Solaris Sparc, add the Oracle Developer Studio installed path at the beginning of the LD\_LIBRARY\_PATH variable in the .profile file.

For example:

```
LD_LIBRARY_PATH=/opt/SunProd/studio12u6/developerstudio12.6/lib/compile
rs/CC-gcc/lib/sparcv9:$LD_LIBRARY_PATH
```

### 8.5 View OFSAA Product Licenses after Installation of Application Pack

In an integrated environment, where you have multiple applications installed on the same domain or infrastructure, OFSAAI allows you to see the other licensed applications through the UI. For more information, see the *View OFSAA Product Licenses after Installation of Application Pack* in the <u>OFS</u> <u>Analytical Applications Infrastructure User Guide Release 8.1.2.0.0</u>.</u>

# 9 Installing OFS Profitability Management Pack on an Existing OFSAA Instance

You have already installed an application pack from release 8.1.x.0.0 and now you want to install another application pack from Release 8.1.2.0.0. For example, OFS Asset Liability Management is already installed and now you want to install OFS Profitability Management Pack (OFS PAM Pack).

For installation instructions the OFS Profitability Management application, see the <u>Installation</u> section.

# **10** Migrate Excel Upload Functionality

See the Migrate Excel Upload section in the <u>OFS Advanced Analytical Applications Infrastructure</u> <u>Installation Guide Release 8.1.2.0.0</u> to complete the procedures.

# 11 Frequently Asked Questions (FAQs) and Error Dictionary

For FAQs and installation error-related information, see the section Frequently Asked Questions (FAQs) and Error Dictionary in the <u>OFS AAI Release 8.1.2.0.0 Installation and Configuration Guide</u>.

## **OFSAA Support**

Raise a Service Request (SR) in <u>My Oracle Support (MOS)</u> for queries related to the OFSAA applications.

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