

Oracle Insurance Allocation Manager for Enterprise Profitability

Installation and Configuration Guide

Release 8.1.1.0.0

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ORACLE
Financial Services

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Oracle Insurance Allocation Manager for Enterprise Profitability Pack Installation and Configuration Guide

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Document Control

Version Number	Revision Date	Change Log
1.0	Apr-2021	Created the document with instructions for the installation of the Oracle Insurance Allocation Manager for Enterprise Profitability Pack Release 8.1.1.0.0.

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1 Preface

This section provides information about the Oracle Insurance Allocation Manager for Enterprise Profitability Pack Pack (PFT-INS Pack) Installation and Configuration Guide.

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

Before you begin the installation, ensure that you have access to [My Oracle Support](#) with the required login credentials to quickly notify us of any issues at any stage.

Topics:

- [Audience](#)
- [How this Guide is Organized](#)
- [Related Documents](#)
- [Conventions](#)
- [Abbreviations](#)

1.1 Audience

The PFT-INS 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:

- PFT-INS Pack 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:

- [Complete Installation Checklist](#)
- [Pre-installation](#)
- [Installation](#)
- [Post-installation](#)
- [Upgrade](#)
- [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 <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

1.4 Related Documents

We strive to keep this document and all other related documents updated regularly; visit the [OHC Documentation Library](#) to download the latest version available. The list of related documents is provided here.

- Oracle Insurance Allocation Manager for Enterprise Profitability Release Notes, Release 8.1.1.0.0
- Oracle Insurance Allocation Manager for Enterprise Profitability User Guide, Release 8.1.1.0.0
- Oracle Insurance Allocation Manager for Enterprise Profitability Security Guide Release 8.1.0.0.0
- Oracle Insurance Allocation Manager for Enterprise Profitability Cloning Guide Release 8.1.0.0.0

OHC Documentation Library for OFS AAI Application Pack:

- [OFS Advanced Analytical Applications Infrastructure Installation Guide Release 8.1.1.0.0](#)
- [OFS Advanced Analytical Applications Infrastructure User Guide Release 8.1.1.0.0](#)
- [OFS Analytical Applications Infrastructure Environment Check Utility Guide Release 8.1.x](#)
- [OFS Analytical Applications Infrastructure Application Pack Administration and Configuration Guide Release 8.1.x](#)
- [OFS AAI Application Security Guide Release 8.1.x](#)
- [OFS Analytical Applications Infrastructure Cloning Guide Release 8.1.x](#)
- [OFSAA Licensing User Manual, Release 8.1.1.0.0](#)

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

- [OFS Analytical Applications 8.1.1.0.0 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.

Convention	Meaning
<i>italic</i>	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.
Hyperlink	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
JVM	Java Virtual Machine

Abbreviation	Meaning
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
OHC	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

2 About Oracle Financial Services Analytical Applications (OFSAA)

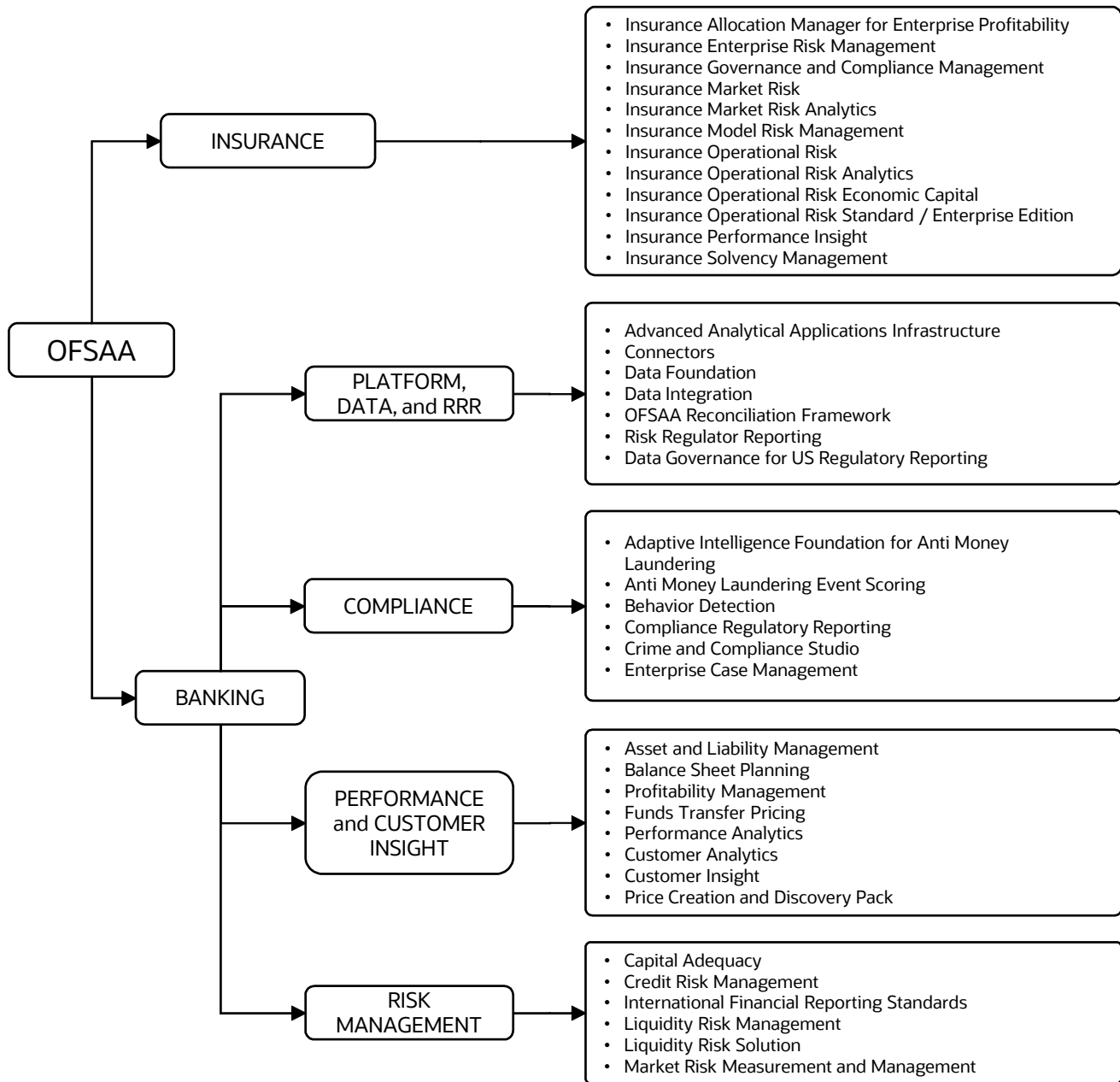
In today's turbulent markets, financial institutions require a better understanding of their risk-return, while strengthening competitive advantage and enhancing long-term customer value. Oracle Financial Services Analytical Applications (OFSAA) enable financial institutions to measure and meet risk-adjusted 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



Topics:

- [Oracle Financial Services Analytical Applications Infrastructure \(OFS AAI\)](#)
- [OFS PFT-INS 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.

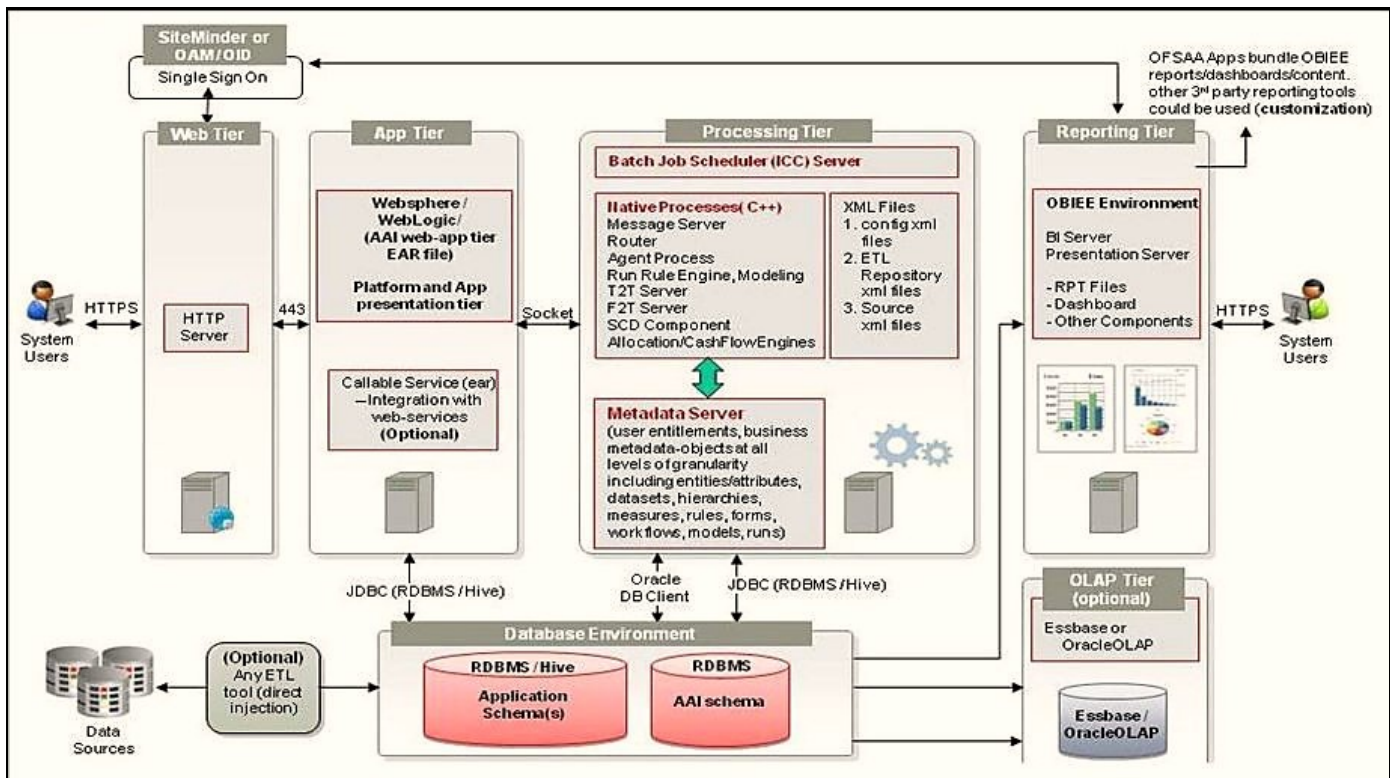
2.1.1 Components of OFSAA Infrastructure

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

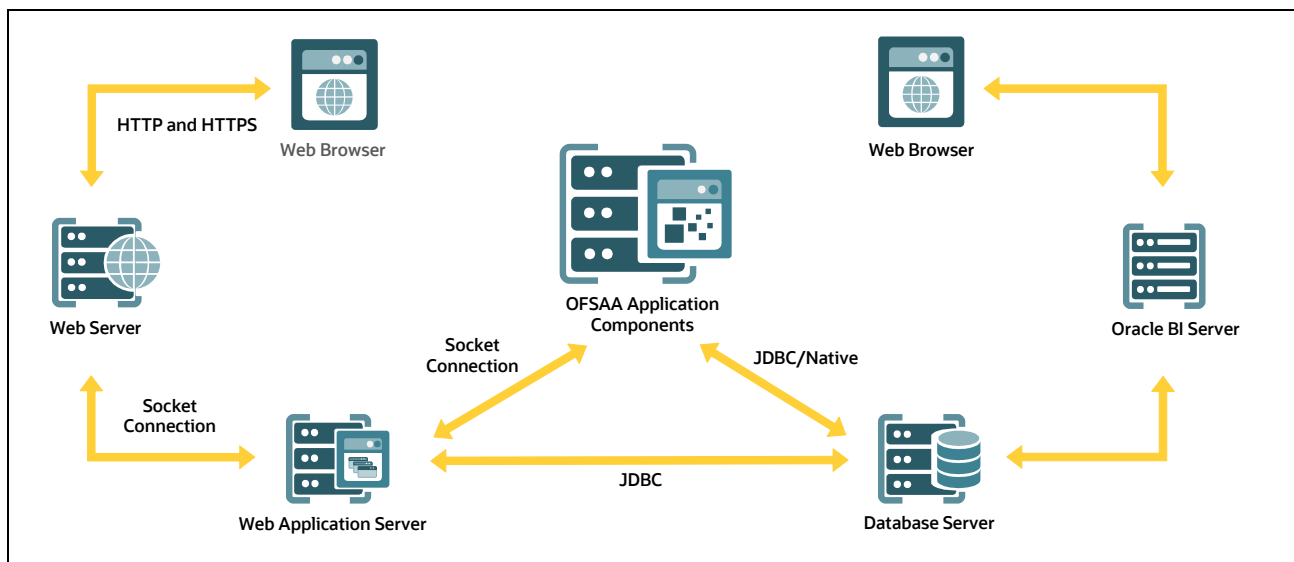
The current release of the OFSAA Infrastructure supports only the "Single Instance" installation for the Infrastructure components. However, the High Availability (HA) for the Database Server and/ or the Web application server clustering and deployment is supported in this release.

This release supports the Active-Passive model of implementation for OFSAAI components. For more information, see the [Oracle Financial Services Analytical Applications Configuration for High Availability Best Practices Guide](#).

2.1.3 Deployment Topology

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

Figure 3: Logical Architecture Implemented for OFSAA Application Packs



2.2 OFS PFT-INS Pack

Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack 8.1.1.0.0 Pack includes the following applications:

- Oracle Financial Services Analytical Applications Infrastructure:** 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 needed 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 Insurance Allocation Manager for Enterprise Profitability:** Oracle Insurance Allocation Manager for Enterprise Profitability enables financial services institutions to calculate profitability by products, channels, segments, and even individual customers. These profitability calculations are adjusted for risk, and they drive Risk-Adjusted Performance Management

(RAPM), an imperative for financial services institutions operating in this rapidly evolving and complex industry.

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 8.1.1.0.0 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

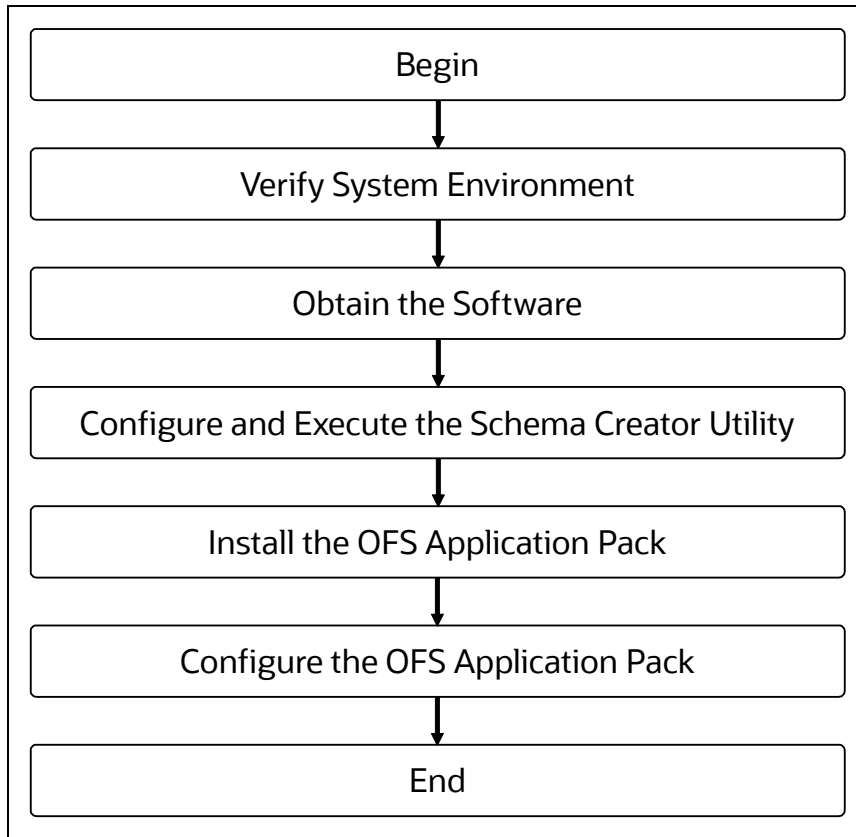
The pack is enabled by the procurement of an additional license. For more information, see the OFS AAIE Release Notes and Installation Guide on the [OHC Documentation Library](#).

2.4 Installation Overview

Release 8.1.1.0.0 of PFT-INS Pack supports fresh installation and also upgrade from versions 8.1.x.

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.

Table 3: 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	<p>Create the Installation, Download, and Metadata Repository Directories:</p> <ul style="list-style-type: none"> • Installation directory • Temporary directory • Staging Area/Metadata Repository • Download directory
7	<p>Configure the following Operating System and File System settings:</p> <ul style="list-style-type: none"> • File Descriptor • Total number of processes • Port(s) • <code>.profile</code> file permissions • Add FTP/SFTP configuration for file transfer
8	<p>Update the following Environment Settings required for the installation in the <code>.profile</code> file:</p> <ul style="list-style-type: none"> • Java Settings • Oracle Database Server and Client Settings • Add TNS entries in the <code>tnsnames.ora</code> file • Oracle Essbase Settings • Time Zone Settings
9	Download the installer kit and erwin data models.
10	Perform prerequisites for installation.

Table 4: Installation Checklist

Sl. No.	Installation Activity
1	Extract the installer kit.
2	Configure the OFS_PFT_INS_PACK.xml file.
3	Configure the OFS_PFT_INS_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

Sl. No.	Post-installation Activity
1	Verify the installation logs.
2	Back up the SCHEMA_CREATOR.xml, OFS_PFT_INS_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.
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 PFT-INS Pack is qualified.

Topics:

- [Third-Party Licensing Information](#)
- [Verify System Environment](#)

NOTE OFS PFT-INS Pack installation can be performed on both Virtual and Physical servers.

See the [OFSAA Technology Matrix](#) for the hardware and software required to install OFS PFT-INS Pack Release 8.1.1.0.0.

The following software combinations are recommended.

Table 7: Recommended Software Combinations

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

4.1 Third-party Licensing Information

For details on the third-party software tools used in OFS PFT-INS Pack Pack, see the [OFSAA Licensing Information User Manual Release 8.1.1.0.0](#).

Also, ensure that you have the following Python licenses:

- cx_Oracle 8.0.0.
- imbalanced-learn 0.7.0
- matplotlib 3.2.2
- NumPy 1.19.4
- Pandas 1.0.5
- Python 3.8.3
- scikit-learn 0.23.1
- SciPy 1.5.1
- Seaborn 0.10.1
- SQLAlchemy 1.3.18

- statsmodels 0.11.1

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 [Oracle Financial Services Analytical Applications Infrastructure Environment Check Utility Guide](#).

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. NOTE: See the Configure the Web Server section for the Web Server configuration.

5 Pre-installation

This section contains the pre-installation requirements to install the OFS PFT-INS Pack.

Topics:

- [Pre-installation Checklist](#)
- [Hardware and Software Requirements and Specifications](#)
- [Preparing for Installation](#)

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: <ul style="list-style-type: none"> • Installation directory • Temporary directory • Staging Area/Metadata Repository • Download directory
7	Configure the following Operating System and File System settings: <ul style="list-style-type: none"> • File Descriptor • Total number of processes • Port(s) • <code>.profile</code> file permissions • Add FTP/SFTP configuration for file transfer
8	Update the following Environment Settings required for the installation in the <code>.profile</code> file: <ul style="list-style-type: none"> • Java Settings • Oracle Database Server and Client Settings • Add TNS entries in the <code>tnsnames.ora</code> file • Oracle Essbase Settings • Time Zone Settings

Sl. No.	Pre-installation Activity
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 installing the OFS PFT-INS Pack.

5.2.1 Download the OFS PFT-INS Pack Installer and Erwin Data Models

To download the OFS PFT-INS Pack Installer Release v8.1.1.0.0, follow these steps:

- Log in to [My Oracle Support](#), and search for Patch ID **32522928** under the **Patches and Updates** tab.
- Download the installer archive and copy (in Binary mode) to the download directory in the setup identified for OFS PFT-INS Pack installation.

Log in to [My Oracle Support](#), search for the **33663417** Mandatory Patch in the **Patches & Updates** Tab and download it.

ATTENTION On the 10th of December 2021, Oracle released Security Alert CVE-2021-44228 in response to the disclosure of a new vulnerability affecting Apache Log4J prior to version 2.15. The application of the **33663417** Mandatory Patch fixes the issue.
 For details, see the My Oracle Support Doc ID [2827801.1](#).

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 8.1.1.0.0 Installation and Configuration Guide](#).
-

ATTENTION You must apply the OFS AAI patch **32530173** in case of Pack-on-Pack v8.1.1.0.0 installation. Do not apply this patch, if you have already applied it as part of another application pack's installation.

NOTE

If you are upgrading the OFSAA Application Pack to release v8.1.1.0.0, you must upgrade the other packs installed in the same environment to release v8.1.1.0.0, to ensure successful deployment.

For example, If you are upgrading the OFS PFT-INS Pack to release v8.1.1.0.0, you must upgrade the other packs (ALM, IFRS, and so on) installed in the same environment to release v8.1.1.0.0, to ensure successful deployment.

6 Installation

This section provides detailed steps to install the OFS PFT-INS Pack.

Topics:

- [Installation Checklist](#)
- [Extract the Software](#)
- [Configure OFS_PFT_INS_PACK.xml File](#)
- [Configure Schema Creator Utility](#)
- [Configure the OFSAAI_InstallConfig.xml File](#)
- [Configure the Silent.props file](#)
- [Install the OFS PFT-INS 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.

Table 10: Installation Checklist

Sl. No.	Installation Activity
1	Extract the installer kit.
2	Configure the OFS_PFT_INS_PACK.xml file.
3	Configure the OFS_PFT_INS_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 PAM Pack Release 8.1.1.0.0 installer archive file in the download directory using the following command:

```
OFS_PFT_INS_8.1.1.0.0.<OS>.zip
```

4. Navigate to the download directory and assign 750 permission to the installer directory using the following command:

```
chmod -R 750 OFS_PFT_INS_PACK
```

6.3 Configure the OFT_PFT_INS_PACK.xml File

The `OFT_PFT_INS_PACK.xml` file contains details on the various products that are packaged in the OFS PFT INS Pack.

The `OFT_PFT_INS_PACK.xml` file has details of the products that are packaged in the OFS PFT INS Pack. This section provides information about the tags and parameters available in this file and the values you must update before installing the OFS PFT INS Pack. Enable licenses as per your Service Level Agreement (SLA).

To configure the `OFT_PFT_INS_PACK.xml` file, follow these steps:

1. Navigate to the `OFS_PFT_INS/conf` directory.
2. Open the `OFT_PFT_INS_PACK.xml` file in a text editor.

Figure 5: Sample OFT_PFT_INS_PACK.xml File

```

<APP_PACK_CONFIG>
  <APP_PACK_ID>OFS_PFT_INS_PACK</APP_PACK_ID>
  <APP_PACK_NAME>Oracle Insurance Allocation Manager for Enterprise Profitability
  Pack</APP_PACK_NAME>
  <APP_PACK_DESCRIPTION>Application Pack for PFT Allocation Manager in Insurance
  Domain</APP_PACK_DESCRIPTION>
  <VERSION>8.1.1.0.0</VERSION>
  <APP>
    <APP_ID PREREQ="" DEF_SEL_FLG="YES" ENABLE="YES">OFS_AAI</APP_ID>
    <APP_NAME>Financial Services Analytical Applications Infrastructure</APP_NAME>
    <APP_DESCRIPTION>Base Infrastructure for Analytical Applications
    </APP_DESCRIPTION>
    <VERSION>8.1.1.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="YES">OFS_PFT_INS</APP_ID>
    <APP_NAME>Oracle Insurance Allocation Manager for Enterprise Profitability
    </APP_NAME>
    <APP_DESCRIPTION>Application for PFT Allocation Manager in Insurance Domain
    </APP_DESCRIPTION>
    <VERSION>8.1.1.0.0</VERSION>
  </APP>
</APP_PACK_CONFIG>

```

3. Configure the OFT_PFT_INS_PACK.xml file as mentioned in the following table.

Table 11: OFT_PFT_INS_PACK.xml File Parameters

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	Y	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	Y	Unique Seeded Value. Do not modify this value.

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Comments
APP_ID/ PREREQ	Prerequisite Application or Product	Y	Unique Seeded Value. For most applications, the prerequisite that is set is OFS AAAI. For all other applications, the default Application ID is set to none. You can set it for the applications you want to install. 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	<ul style="list-style-type: none"> • Default YES for Infrastructure • NO for others Set this attribute value to YES against every APP_ID which is licensed and must be enabled for use. NOTE: The Application/Product cannot be disabled once enabled. Only Applications/Products which are enabled are installed. In order to enable other licensed Applications/Products, you need to reinstall by making the flag as Y for the App_ID. However, in case of reinstallation to enable the other Applications/Products, execution of the schema creation utility must be skipped if it does not include any additional sandboxes to be created.
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.
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 PFT-INS 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 PFT INS Pack.

Topics:

- [Prerequisites](#)

- [Configure Schema Creator Utility for RDBMS Installation](#)
- [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_PFT_INS_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_PFT_INS_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_PFT_INS_SCHEMA_IN.xml`. Update the required values in this file before executing the Schema Creator Utility.

To configure the `OFS_PFT_INS_SCHEMA_IN.xml` file, follow these steps:

1. Log in to the system as a non-root user.
2. Navigate to the `OFS_PFT_INS_PACK/schema_creator/conf` directory.
3. Edit the `OFS_PFT_INS_SCHEMA_IN.XML` file using a text editor and configure the values as mentioned in the following table.

Figure 6: Sample OFS_PFT_INS_SCHEMA_IN.xml File

```
<APPPACKSCHEMA>
  <APP_PACK_ID>OFS_PFT_INS_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=
      "USERS" TEMPTABLESPACE="TEMP" QUOTA="UNLIMITED" />
    <SCHEMA TYPE="ATOMIC" NAME="" PASSWORD="" APP_ID="OFS_PFT_INS" INFODOM=""
      DEFAULTTABLESPACE="USERS" TEMPTABLESPACE="TEMP" QUOTA="UNLIMITED" />
  </SCHEMAS>
</APPPACKSCHEMA>
```

Table 12: OFS_PFT_INS_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>	Seeded unique ID for the OFS Application Pack.	Y	Seeded	Do not modify this value.
<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>	<p>Enter the JDBC URL.</p> <p>You can enter the RAC/ NON-RAC enabled database connectivity URL.</p>	Y	<p>Example:</p> <p>jdbc:oracle:thin:@< DBSERVER IP/ HOST/ IP>:<PORT>:<SID></p> <p>or</p> <p>jdbc:oracle:thin:@//[HOST][:PORT]/SERVICE</p> <p>or</p> <p>jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=[HOST])(port=[PORT]))(ADDRESS=(PROTOCOL=TCP)(HOST=[HOST])(PORT=[PORT])(LOAD_BALANCE=yes)(FAILOVER=yes)(CONNECT_DATA=(SERVICE_NAME=[SERVICE]))))</p> <p>For example:</p> <p>jdbc:oracle:thin:@//dbhost1.server.com:1521/service1</p> <p>or</p> <p>jdbc:oracle:thin:@//dbhost1.server.com:1521/scan-1</p> <p>or</p> <p>jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=dbhost1.server.com)(port=1521))(ADDRESS=(PROTOCOL=TCP)(HOST=dbhost2.server.com)(PORT=1521))(LOAD_BALANCE=yes)(FAILOVER=yes)(CONNECT_DATA=(SERVICE_NAME=service1)))</p>	<p>Ensure that you add an entry (with SID/ SERVICE NAME) in the <code>tnsnames.ora</code> file on the OFSAA server. The entry must match the SID/ SERVICE NAME used in the JDBC URL.</p> <p>Ensure that you have configured:</p> <ol style="list-style-type: none"> 1. The correct Oracle Wallet with the credentials for stored Sys, Config, and Atomic Users. 2. The JDBC URL as follows: <pre>jdbc:oracle:thin:@</pre> <p>For more information on how to configure Oracle Wallets for OFSAA Installation and Data Sources, see the OFS Analytical Applications Infrastructure Administration Guide.</p>

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Default Value or Permissible Value	Comments
<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>	Enter the Hostname/ IP Address of the system on which you are installing the OFSAA components.	Y	Host Name/IP Address	
<SETUPINFO>/PREFIX_SCHEMA_NAME	Identifies whether the value specified in <SETUPINFO>/NAME attribute must be prefixed to the schema name.	N	YES or NO	The default value is YES.
<SETUPINFO>/NAME	Enter the acronym for the type of implementation. This information is displayed in the OFSAA Home Page. On executing the schema creator utility, this value is prefixed with each schema name. For example: dev_ofsaconf, 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*	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.	N	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	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	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_PFT_INS_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	<p>The schemas' names are seeded based on the Application Pack by default.</p> <p>You can edit the schema names, if required.</p> <p>The Schema Name will have a prefix of the SETUPINFO/NAME attribute.</p> <p>SCHEMA NAME must be the same for all the ATOMIC Schemas of the applications within an Application Pack.</p>	Y	The permissible length is 15 characters and only alphanumeric characters are allowed. No special characters are allowed except underscore _.	<p>The SETUPINFO/NAME attribute value is prefixed to the schema name being created.</p> <p>For example, if a name is set as 'ofsaatm' and setupinfo as 'uat', then the schema created is 'uat_ofsaatm'.</p> <p>NAME must be the same where APP_GRP=1 for all SCHEMA tags (not applicable for this Application).</p>
<SCHEMA>/PASSWORD	<p>Enter the password of the schema to be created.</p> <p>If this attribute is left blank, then the password specified in the <PASSWORD>/DEFAULT attribute is taken as the Schema Password.</p>	N	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.
<SCHEMA>/APP_ID	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>/DEFAULTTABLESPACE	Enter the available default tablespace for DB User. If this attribute is left blank, then USERS is set as the default tablespace.	N	Default value: USERS Permissible value: Any existing valid tablespace name.	Modify this value to associate any valid tablespace with the schema.
<SCHEMA>/TEMPTABLESPACE	Enter the available temporary tablespace for DB User. If this attribute is left blank, 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	Enter the quota to be set on the DEFAULTTABLESPACE 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	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>/	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>/TDE	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>/DATA_REDACT	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>.
<TABLESPACES>	Parent tag to hold <TABLESPACE> elements	N	NA	Uncomment the tag and edit only if tablespaces are to be created as part of the installation. For details, see the example that follows the table. When TDE is TRUE in ADV_SEC_OPTIONS, it is mandatory for the <TABLESPACES> tag to be present in the XML file.

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Default Value or Permissible Value	Comments
<TABLESPACE>/NAME	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##"> attribute. Note the ## syntax.
<TABLESPACE>/VALUE	Physical Name of the tablespace to be created.	Y	NA	Value, if specified, is the actual name of the TABLESPACE.
<TABLESPACE>/DATAFILE	Specifies the location of the data file on the server.	Y	NA	Enter the absolute path of the file to be created.
<TABLESPACE>/AUTOEXTEND	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>/ENCRYPT	Specifies if the tablespace (or tablespaces) must be encrypted using TDE.	Y	ON or OFF	Set to ON to ensure that the tablespaces when created are encrypted using TDE. NOTE: 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="FALSE"/>
<OPTION NAME="DATA_REDACT" VALUE="FALSE" />
</ADV_SEC_OPTIONS>
<TABLESPACES>
```

```
<TABLESPACE NAME="OFS_AAI_TBSP_1" VALUE="TS_USERS1" DATAFILE="/
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_PFT_INS/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 Infodomain>. Do you want to proceed? (Y/N).

Enter **Y** to proceed.

Figure 7: Schema Creation in Offline Mode – Script Generation

```

=====
                          Generating Schema Creation Scripts Started
=====
Checking OFSAA installation...
Found OFSAA installation at /scratch/ofsaadb/OFSAAI
Validating the dat file OFS_AAAI_CFG.dat started...
Successfully validated OFS_AAAI_CFG.dat file
Parsing /scratch/ofsaadb/OFSAAI/conf/DynamicServices.xml
Successfully connected to User - dev_confl URL - jdbc:oracle:thin:@ofss220623:1521:MEDIADB
Validating the input XML file.../scratch/ofsaadb/OFS_AAAI_PACK/schema_creator/conf/OFS_AAAI_SCHEMA_IN.xml
Input XML file validated successfully.
=====
Validating Connection URL ...jdbc:oracle:thin:@ofss220623:1521:MEDIADB
Successfully connected to User - sample URL - jdbc:oracle:thin:@ofss220623:1521:
MEDIADB
Connection URL successfully validated...
You have chosen to install this Application Pack on "uat_atm_anurag" ATOMIC sche
ma. Do you want to proceed? (Y/N)
Y
You have chosen to install this Application Pack on INFODOM "ofsaaiinfo1". Do y
ou want to proceed? (Y/N)
Y
=====

```

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

*Schema Creator executed successfully. Execute the file
scratch/ofsaapp/OFS_PFT_INS/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_PFT_INS_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_PFT_INS/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 [My Oracle Support](#). If there are no errors in the execution, the log file is empty.

As a result of this procedure, the `OFS_PFT_INS_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_PFT_INS/schema_creator/bin` directory.
3. Execute the utility.

For Example: `./osc.sh -s`

The `OFS_PFT_INS_SHCEMA_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 PFT-INS Application 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 8.1.1.0.0 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

<https://blogs.oracle.com/dev2dev/ssl-connection-to-oracle-db-using-jdbc.-tlsv12.-jks-or->

[oracle-wallets](#) and <https://blogs.oracle.com/weblogicserver/weblogic-jdbc-use-of-oracle-wallet-for-ssl>.

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, tnsping, 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 the 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_OFSAATM, then the value for ATOMICALIASNAME must be entered as PRODOFSAATM.

For more detailed information about configuring Wallet with OFSAA, see the *Configuring OFSAA and various Web Application Servers with Oracle Wallet* section in the [OFS Analytical Applications 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_PFT_INS_PACK/schema_creator/conf/OFS_PFT_INS_SCHEMA_IN.xml` file in a text editor. See the tables in [Configure the OFS_PFT_INS_SCHEMA_IN.xml File](#) 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 8: 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/aai81ssl/wallet
Error: - Please provide proper arguments
/scratch/aai81ssl/OFS_AAAI_PACK/schema_creator/bin>./osc.sh -s TCPS /scratch/aai81ssl/wallet
-S
TCPS
/scratch/aai81ssl/wallet
-Doracle.net.tns_admin=/scratch/aai81ssl -Doracle.net.wallet_location=(SOURCE=(METHOD=file) (METHOD_DATA=(DIRECTORY=/scratch/aai81ssl/wallet))) -Doracle.net.ssl_server_dn_match=true -Djavax.net.ssl.trustStoreType=SSO -Djavax.net.ssl.trustStore=wallet.sso -Doracle.net.ssl_version=1.2
exporting wallet FALSE
##Entries created by schema creator ##
=====
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):
Y

```

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 "<ATOMIC_SCHEMA_NAME>" ATOMIC schema. Do you wish to proceed? (Y/y or N/n).

Figure 9: Schema Creation in the TCPS Mode – Install on Atomic Schema

```

0430: 58 8D 05 B2 02 0F 2D 01 0C 00 00 00 00 00 04 X.....-.....
0440: 01 01 02 23 E4 00 02 05 7B 00 00 01 0C 01 0E 03 ...#.....
0450: 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 6F 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 B4 88 52 0F d.a.mQ.`.....R.
0490: A4 F8 CA 1B 2C F2 09 09 09 09 09 09 09 09 .....
You have chosen to install this Application Pack on "t81s_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 10: Schema Creation in the TCPS Mode

```

0030: 05 02 24 2C 00 00 00 00 01 10 00 2B 00 00 00 00 ..$,.....+....
0040: 00 00 00 00 00 00 00 00 58 00 01 01 00 00 00 00 .....X.....
0050: 00 00 EE 63 D9 C7 F0 3C A2 23 E1 34 68 01 68 96 ...c...<.#.4h.h.
0060: 4F 69 FD 59 9F 23 09 09 09 09 09 09 09 09 Oi.Y.#.....
Grants creation scripts execution completed...
=====
Schemas Creation Completed
=====
Schema Creator executed Successfully.Please proceed with the installation.
/scratch/aai81ssl/OFS_AAAI_PACK/schema_creator/bin>

```

6. After the installation is completed, delete the ojdbc7.jar file from 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

When executing the Schema Creator Utility during the installation of a subsequent application pack, you can choose to install the pack either on the same Information Domain/Atomic Schema of the existing application pack or on a new Information Domain/Atomic Schema. 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_PFT_INS_PACK/schema_creator/conf/OFS_PFT_INS_SCHEMA_IN.xml` file in a text editor. See the [OFS_PFT_INS_SCHEMA_IN.xml](#) file for values you must modify in the XML file.
2. Execute the utility.

For Example: `./osc.sh -s`

Figure 11: Schema Creator Utility

```

Validating Connection URL ...jdbc:oracle:thin:@ofss220623:1521:MEDIADB
Successfully connected to User - sample URL - jdbc:oracle:thin:@ofss220623:1521:
MEDIADB
Connection URL successfully validated...
You have chosen to install this Application Pack on "uat_atm_anurag" ATOMIC sche
ma. Do you want to proceed? (Y/N)
Y
You have chosen to install this Application Pack on INFODOM "cfssaainfcl". Do y
ou want to proceed? (Y/N)
Y
=====
====
Generating TableSpace creation Scripts started...
Generating TableSpace creation Scripts completed...
=====
====
Generating Schema creation scripts started...
CONFIG User uat_conf_anurag creation script generated successfully on Default Ta
bleSpace : USERS on Temp TableSpace : TEMP
Generation of grants creation scripts started...
Generation of grants creation scripts completed...
Scripts Generation for CONFIG schema started ...
Scripts Generation for CONFIG schema completed ...
User uat_conf_anurag details updated into the dbmaster table
User uat_atm_anurag details updated into the dbmaster table
User uat_atm_anurag creation script generated successfully on Default TableSpace
 : USERS on Temp TableSpace : TEMP
User uat_atm_anurag creation is skipping as the user is already created.
Generating Schema creation scripts completed...
=====
====
Generating Roles creation Scripts started...
Generating Roles creation Scripts completed...
=====
====
Generating Grants creation scripts started...
Generating Grants creation scripts completed...
=====
====
                                Generating Schema Creation Scripts Completed
=====
====
Schema Creator executed Successfully.Please execute /scratch/cfsaaapp/OFS_AAAI_P
ACK/schema_creator/sysdba_output_scripts.sql before proceeding with the installa
tion.

```

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 12: Select the Atomic User

```

Validating the dat file OFS_IBCE_CFG.dat started...
The path is:/scratch/bcuser/kit/OFS_IBCE_PACK/schema_creator/conf
Successfully validated OFS_IBCE_CFG.dat file
Validating the input XML file.../scratch/bcuser/kit/OFS_IBCE_PACK/schema_creator/conf/OFS_IBCE_SCHEMA_IN.xml
Input XML file validated successfully.
=====
Validating Connection URL ...jdbc:oracle:thin:@whf00atu.in.oracle.com:1521/ORCLPDB1
Connection jdbc:oracle:thin:@whf00atu.in.oracle.com:1521/ORCLPDB1
Successfully connected to User - sys as sysdba URL - jdbc:oracle:thin:@whf00atu.in.oracle.com:1521/ORCLPDB1
Connection URL successfully validated...
localhost name - whf00ots IPAddress - 10.40.158.56
INT LB_HOST not there in schema
IS_HYBRID not there in schema
ADV_SEC_TAG not there in schema
Parsing file: /scratch/bcuser/kit/OFS_IBCE_PACK/schema_creator/./conf/OFS_IBCE_PACK.xml
Checking: app: OFS_AAI schema_name: T2_BCCONFIG81T schema_type: CONFIG
Checking: app: OFS_IBCE schema_name: T2_BCATOMIC81T schema_type: ATOMIC
You have chosen to install this Application Pack on "t2_bcatomic81t" ATOMIC schema. Do you want to proceed? (Y/N)
Y
You have chosen to install this Application Pack on INFODOM "bcinfo". Do you want to proceed? (Y/N)
Y
=====

```

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_PFT_INS_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 [My Oracle Support](#).

6.6 Configure the OFSAAI_InstallConfig.xml File

To configure the `OFS_InstallConfig.xml` file, follow these steps:

1. Navigate to the `OFS_PFT_PACK/OFS_AAI/conf/` folder.
2. Open the `OFSAAI_InstallConfig.xml` file in a text editor.
3. Configure the `OFSAAI_InstallConfig.xml` 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 13: OFSAA Infrastructure Installation Tasks and Descriptions

InteractionVariable Name	Significance and Expected Value	Mandatory
<Layer name="GENERAL">		
InteractionGroup name="WebServerType"		
WEBAPPSERVERTYPE	<p>Identifies the web application server on which the OFSAA infrastructure web components are deployed.</p> <p>Set the following numeric value depending on the type of web application server:</p> <ul style="list-style-type: none"> • Apache Tomcat = 1 • IBM WebSphere Application Server = 2 • Oracle WebLogic Server = 3 <p>For example, <code><InteractionVariable name="WEBAPPSERVERTYPE">3</InteractionVariable></code></p>	Yes
InteractionGroup name="OFSAA Infrastructure Server Details"		
DBSERVER_IP	<p>Identifies the hostname or IP address of the system on which the Database Engine is hosted.</p> <p>NOTE: For RAC Database, the value must be NA. For example, <code><InteractionVariable name="DBSERVER_ IP">14.15.16.17</InteractionVariable></code> or <code><InteractionVariable name="DBSERVER_ IP">dbhost.server.com</InteractionVariable></code></p>	Yes
InteractionGroup name="Database Details"		
ORACLE_SID/SERVICE_NAME	<p>Identifies the Oracle DB Instance SID or SERVICE_NAME</p> <p>NOTE: The Oracle_SID value must be exactly the same as it is mentioned in JDBC_URL.</p> <p>For example, <code><InteractionVariable name="ORACLE_SID/SERVICE_ NAME">ofsaser</InteractionVariable></code></p>	Yes
ABS_DRIVER_PATH	<p>Identifies the directory where the JDBC driver (ojdbc<version>.jar) exists. This would typically be the \$ORACLE_HOME/jdbc/lib directory.</p> <p>For example, <code><InteractionVariable name="ABS_DRIVER_ PATH">">/oradata6/revwb7/ oracle </InteractionVariable></code></p>	Yes

InteractionVariable Name	Significance and Expected Value	Mandatory
	Note: See the JDBC Jar files to identify the correct <code>ojdbc<version>.jar</code> version to be copied.	
InteractionGroup name="OLAP Detail"		
OLAP_SERVER_IMPLEMENTATION	<p>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:</p> <ul style="list-style-type: none"> • YES: 1 • NO: 0 <p>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:</p> <ul style="list-style-type: none"> • ARBORPATH • HYPERION_HOME • ESSBASEPATH 	No
InteractionGroup name="SFTP Details"		
SFTP_ENABLE	<p>Identifies if the SFTP (Secure File Transfer Protocol) feature is to be enabled. The following numeric value must be set depending on your choice:</p> <ul style="list-style-type: none"> • SFTP: 1 • FTP: 0 	Yes
<p>NOTE: The default value for SFTP_ENABLE is 1, 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 0. You can change this selection later from the OFSAAI administration interface. Set SFTP_ENABLE to -1 to configure ftpshare and weblocal path as a local path mounted for the OFSAAI server.</p>		
FILE_TRANSFER_PORT	<p>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.</p> <p>For example, <code><InteractionVariable name="FILE_TRANSFER_PORT">21</InteractionVariable></code></p>	Yes
InteractionGroup name="Locale 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
	For example, <InteractionVariable name="LOCALE">en_US</InteractionVariable>	
InteractionGroup name="OFSAA Infrastructure Communicating ports"		
Note: The following ports are used internally by the various OFSAA infrastructure services. The default values mentioned are set in the installation. If you intend to specify a different value, update the parameter value accordingly, ensure that the port value is in the range 1025 to 65535, and the respective port 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"		
Note: If the value for HTTPS_ENABLE is set to 1 , ensure that you have a valid certificate available from a trusted CA and it is configured on your web application server. For more details on configuring your setup for HTTPS.		
HTTPS_ENABLE	Identifies whether the UI must be accessed using HTTP or HTTPS scheme. The default value is set to 0 . The numeric value must be set depending on the following options: <ul style="list-style-type: none"> • YES: 1 • NO: 0 For example, <InteractionVariable name="HTTPS_ENABLE">0</InteractionVariable>	Yes
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
	<p>If a separate HTTP Server is not available, then the value must be Web Application Server IP/Hostname.</p> <p>For example, <code><InteractionVariable name="WEB_SERVER_IP">10.11.12.13</InteractionVariable></code></p> <p>or</p> <p><code><InteractionVariable name="WEB_SERVER_IP">myweb.server.com</InteractionVariable></code></p>	
WEB_SERVER_PORT	<p>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.</p> <p>Warning: The installer will not accept the port value as:</p> <ul style="list-style-type: none"> • 80, if the HTTPS_ENABLE variable is 1 • 443, if the HTTPS_ENABLE variable is 0 <p>For example, <code><InteractionVariable name="WEB_SERVER_PORT">80</InteractionVariable></code></p>	No
CONTEXT_NAME	<p>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:</p> <p><code><scheme>://<host>:<port>/<context-name>/login.jsp</code></p> <p>For example: <code>https://myweb:443/ofsaadev/login.jsp</code></p> <p>For example, <code><InteractionVariable name="CONTEXT_NAME">ofsaadev</InteractionVariable></code></p>	Yes
WEBAPP_CONTEXT_PATH	<p>Identifies the absolute path of the exploded EAR file on the web application server.</p> <ul style="list-style-type: none"> • For Tomcat, specify the Tomcat directory path till /webapps. For example: <code>/oradata6/revwb7/tomcat/webapps/</code>. • For WebSphere, specify the WebSphere path as <code><WebSphere profile directory>/installedApps/<NodeCellName></code>. For example: <code>/data2/test//WebSphere/AppServer/profiles/<Profile_Name>/installedApps/aiximfNode01Cell</code>, where aix-imf is the Host name. • For WebLogic, specify the WebLogic home directory path. For example: <code>/<WebLogic home directory path>/bea/wlserver_10.3</code> <p>Note: For WebLogic, the value specified for this attribute is ignored and the value provided against the attribute WEBLOGIC_DOMAIN_HOME is considered.</p>	Yes

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

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

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 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 PFT-INS Pack Release 8.1.1.0.0. In the installer kit path `OFS_PFT_INS_PACK/appsLibConfig/conf/`, rename the `Silent.template` file to `Silent.props`. Edit the `Silent.props` file and modify only the following parameters.

NOTE	<p>In the pack-on-pack scenario, the segment code must be same as the parameters <code>SEGMENT_1_CODE</code> of the previously installed application pack.</p> <p>Do not modify these parameters if there are no other packs than the OFS PFT-INS Pack installed.</p>
-------------	---

Table 14: Parameters for the Silent.props File

Property Name	Description of Property	Permissible Values	Comments
OFS_PFT_SEGMENT_1_CODE	Segment Code	Not Applicable	Mandatory NOTE: The Segment Code should be in upper case.
APPFTP_LOG_PATH	Infodom Maintenance log path (to be created) for the new Infodom for applayer	Not Applicable	# Mandatory if this an App Layer Installation and if you want to create a new infodom. # That is, you have specified INSTALL_APP=1 and INFODOM_TYPE=0
DBFTP_LOG_PATH	Infodom Maintenance log path (to be created) for the new Infodom for DBLayer	Not Applicable	# Mandatory if this an App Layer Installation and if you want to create a new infodom. # That is, you have specified INSTALL_APP=1 and INFODOM_TYPE=0
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_TYPE	Create new ETL App or Src pair or use an existing one	0 = New 1 = Existing	#Mandatory if this an App layer installation. # That is, you have specified INSTALL_APP=1. # 0 = If you want to create a new ETL app or src pair # 1 = If you want to use an existing pair
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	# Mandatory if you want to create a new ETL app or src pair. #That is, you have specified ETL_APPSRC_TYPE=0
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_NAME	ETL Processing source name	Not Applicable	This Source must be mapped to the above ETL Application.

6.8 Install the OFS PFT-INS 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 OFS PFT INS PACK.xml File](#)
3. [Configure the OFS PFT INS SCHEMA IN.xml File](#)
4. [Configure the OFSAAI InstallConfig.xml File](#) (Do not configure this file if an installation of OFSAAI 8.1.1 already exists.)
5. [Execute the Schema Creator Utility](#)
6. [Configure the Silent.props File](#)

To install the OFS PFT-INS 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_PFT_INS_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 13: Installation

```
OS specific Validation Started ...
Checking en_US.utf8 locale. Status : SUCCESS
Unix shell found : /bin/ksh. Status : SUCCESS
Total file descriptors : 65536. Status : SUCCESS
Total number of process : 4096. Status : SUCCESS
OS version : 7. Status : SUCCESS
OS specific Validation Completed. Status : SUCCESS
=====
DB specific Validation Started ...
Oracle Client version : 19.0.0.0.0. Status : SUCCESS
client version 19.0
Successfully connected to schema t2_bcatomic81t. Status : SUCCESS
CREATE SESSION has been granted to user. Status : SUCCESS
CREATE PROCEDURE has been granted to user. Status : SUCCESS
CREATE VIEW has been granted to user. Status : SUCCESS
CREATE TRIGGER has been granted to user. Status : SUCCESS
CREATE MATERIALIZED VIEW has been granted to user. Status : SUCCESS
CREATE TABLE has been granted to user. Status : SUCCESS
CREATE SEQUENCE has been granted to user. Status : SUCCESS
SELECT privilege is granted for NLS_INSTANCE_PARAMETERS view. Current value : READ. Status : SUCCESS
NLS_LENGTH_SEMANTICS : BYTE. Current value : BYTE. Status : SUCCESS
NLS_CHARACTERSET : AL32UTF8. Current value : AL32UTF8. Status : SUCCESS
SELECT privilege is granted for V_$parameter view. Current value : SELECT. Status : SUCCESS
Open cursor value is greater than 1000. Current value : 4000. Status : SUCCESS
SELECT privilege is granted for USER_TS_QUOTAS view. Current value : READ. Status : SUCCESS
Schema is granted with at least 500 MB table space for user : t2_bconconfig81t. Current value : 500 MB. Status : SUCCESS
Oracle db version 19
Oracle db R2 version 19.0
Oracle Server version Current value : 19.0.0.0.0. Status : SUCCESS
DB specific Validation Completed. Status : SUCCESS
=====
find: '/scratch/bcuser/OFSAA/ext/lib': No such file or directory
Environment check utility Status : SUCCESS
=====
*****
* Welcome to Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) Installation *
*****
Checking Infrastructure installation status ...
Infrastructure installation does not exist. Proceeding with Infrastructure installation ...
Triggering Infrastructure installation ...

Please enter Infrastructure Application/Database component FTP/SFTP password :
log4j:WARN No appenders could be found for logger (org.apache.commons.vfs2.impl.StandardFileSystemManager).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
hostname is whf00ots
hostname is whf00ots
```

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

Figure 14: OFSAA Processing Tier FTP/SFTP password

```

DB specific Validation Started ...
Oracle Client version : 11.2.0.2.0. Status : SUCCESS
CREATE SESSION has been granted to user. Status : SUCCESS
CREATE PROCEDURE has been granted to user. Status : SUCCESS
CREATE VIEW has been granted to user. Status : SUCCESS
CREATE TRIGGER has been granted to user. Status : SUCCESS
CREATE MATERIALIZED VIEW has been granted to user. Status : SUCCESS
CREATE TABLE has been granted to user. Status : SUCCESS
CREATE SEQUENCE has been granted to user. Status : SUCCESS
SELECT privilege is granted for V_$logs parameters view. Current value : SELECT. Status : SUCCESS
NLS_LENGTH_SEMANTICS : BYTE. Current value : BYTE. Status : SUCCESS
NLS_CHARACTERSET : AL32UTF8. Current value : AL32UTF8. Status : SUCCESS
SELECT privilege is granted for V_$parameter view. Current value : SELECT. Status : SUCCESS
Open cursor value is greater than 1000. Current value : 1000. Status : SUCCESS
SELECT privilege is granted for USER_TS QUOTAS view. Current value : SELECT. Status : SUCCESS
Schema is granted with at least 500 MB table space. Current value : 500 MB. Status : SUCCESS
Oracle Server version Current value : 11.2.0.2.0. Status : SUCCESS
DB specific Validation Completed. Status : SUCCESS
=====
Environment check utility Status : SUCCESS
=====
* Welcome to Oracle Financial Services Advanced Analytical Applications Infrastructure (OFS AAI) Applications Pack Installation
=====
Checking Infrastructure installation status ...
Infrastructure installation does not exist. Proceeding with Infrastructure installation ...
Triggering Infrastructure installation ...

Please enter Infrastructure FTP/SFTP password : █

```

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

Figure 15: OFSAA License Agreement

```

=====
OFSAA APPLICATION PACK LICENSE AGREEMENT
=====
* Warning: This Software System is protected by International copyright law. Unauthorized reproduction or distribution of this Software System, or any portion of it, may result in severe civil and criminal penalties and will be prosecuted to the maximum extent possible under the Law.*
* Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) Application Pack is a group of OFSAA products packaged together in a single installer. Each Application Pack addresses specific functional domains via its products that are grouped together. The Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) being the base infrastructure for deployment of other OFSAA products/Application Packs, is bundled with each Application Pack. With every Application Pack installation, the OFSAA Infrastructure product would be checked for and installed if required.*
* Oracle Financial Services Enterprise Modeling (OFS AAI) and Oracle Financial Services InLine Processing Engine (OFS IPE) products are separately licensable products and should not be enabled unless it has been licensed. Oracle Financial Services Enterprise Modeling (OFS AAI) and Oracle Financial Services InLine Processing Engine (OFS IPE) products are only part of the Oracle Financial Services Advanced Analytics Infrastructure Pack and specific OFSAA Application Packs that require these advanced analytical features of the product. Oracle Financial Services Enterprise Modeling (OFS AAI) or Oracle Financial Services InLine Processing Engine (OFS IPE) product gets pre-selected automatically on selecting any of the OFSAA products within a specific Application Pack that require these products to be enabled and configured.*
* Multiple products being grouped together under a Application Pack, mandate installation and configuration of these products by default. However, during the Application Pack installation, based on the products that are being selected, it would get enabled and should be licensed for. It is important to note that products once selected (enabled) cannot be disabled at a later stage. However, products can only be enabled at any later stage using the OFSAA Infrastructure 'Manage Application Pack Licenses' feature.*
* Enabling a product within a Application Pack automatically implies you agree with this license agreement and the respective terms and conditions.*
=====
Are you accepting the terms and conditions mentioned above? (Y/N):
Y

Please enter password for default Infrastructure administrator user SYSADMIN:
Please re-enter password for default Infrastructure administrator user SYSADMIN:
Please enter password for default Infrastructure authorizer user SYSAUTH:
Please re-enter password for default Infrastructure authorizer user SYSAUTH:
Starting installation...
Preparing to install...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

```

8. The installer installs the OFS AAI application.

Figure 16: OFS AAI Installation

```

-----
Are you accepting the terms and conditions mentioned above? [Y/N]:
Y

Please enter password for default Infrastructure administrator user SYSADMIN:

Please re-enter password for default Infrastructure administrator user SYSADMIN:

Please enter password for default Infrastructure authorizer user SYSAUTH:

Please re-enter password for default Infrastructure authorizer user SYSAUTH:
Starting installation...
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...

-----
OFSAAInfrastructure                                     (created with InstallAnywhere)
-----

-----
Installing...
-----

[-----|-----|-----|-----]
[-----|-----|-----|-----]

```

9. After OFS AAI is installed, the OFS PFT-INS Pack installation begins.

Figure 17: OFS PFT-INS Installation

```

*****
Welcome to OFS_IBCE 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_IBCE_PACK
[DynamicServiceManager][GlobalParameters.ISWEB]false
FIC_HOME:/scratch/bcuser/OFSAA/
Pack ID got for Synch is OFS_IBCE_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 [Verify the Log File Information](#) section.
11. After the installation OFS PFT-INS Pack 8.1.1.0.0 is successful, complete the required [Post-installation](#) steps.

7 Post-installation

After the successful installation of the OFS PFT-INS Pack Release 8.1.1.0.0, follow the post-installation procedures.

Topics:

- [Post-installation Checklist](#)
- [Verify the Log File Information](#)
- [Backup the SCHEMA_CREATOR.xml, OFS_PFT_INS_SCHEMA_OUTPUT.xml, and Silent.props Files](#)
- [Change the ICC Batch Ownership](#)
- [Additional Configuration](#)

7.1 Patch OFSAA Infrastructure Installation

Oracle strongly recommends installing the latest available patch set to be up-to-date with the various releases of the OFSAA product.

Apply the following mandatory patch:

- 33663417

ATTENTION

On the 10th of December 2021, Oracle released Security Alert CVE-2021-44228 in response to the disclosure of a new vulnerability affecting Apache Log4J prior to version 2.15. The application of the **33663417** Mandatory Patch fixes the issue.

For details, see the My Oracle Support Doc ID [2827801.1](#).

7.2 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 [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#) to complete these procedures.

Table 15: Post-installation Checklist

Sl. No.	Post-installation Activity
1	Verify the installation logs.

Sl. No.	Post-installation Activity
2	Back up the SCHEMA_CREATOR.xml, OFS_PFT_INS_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.

7.3 Verify the Log File Information

See the following logs files for more information:

- Pack_Install.log file in the OFS_PFT_INS_PACK/logs/ directory.
- Infrastructure installation log files in the OFS_PFT_INS_PACK/OFS_AAI/logs/ directory.
- PFT-INS installation log file in the OFS_PFT_INS_PACK/OFS_PFT_INS/logs directory

You can ignore the following errors in the OFS_PFT_INS_PACK/ OFS_PFT_INS/logs OFS_PFT_INS_installation_811.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] =====

```

[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] =====
[ERROR] Object already exists
[ERROR] 'create table FSI_MIG_OBJ_DEPENDENCIES

[ERROR] Table already has a primary key
[ERROR] 'alter table FSI_MIG_OBJ_DEPENDENCIES
add constraint PK_FSI_MIG_OBJ_DEPENDENCIES primary key (OBJECT_TYPE_ID,
TABLE_NAME,SUB_OBJECT_TYPE_ID,DEPENDANT_COLUMN)

[ERROR] =====
[ERROR] Object already exists
[ERROR] 'create table FSI_MIG_DEPRICATED_COLUMNS

[ERROR]
/u01/OFSAA_Installation/OFSAA/installerScripts/OFS_PFT_INS/scripts/atomic/create/fsi_mig
_deprecated_columns.sql
[ERROR]
[ERROR] =====

```

7.4 Backup SCHEMA_CREATOR_IN.xml, OFS_PFT_INS_SHCEMA_OUTPUT.xml and Silent.props Files

Back up the `SCHEMA_CREATOR.xml`, `OFS_PFT_INS_SHCEMA_OUTPUT.xml`, and `Silent.props` files as they can be reused when upgrading existing applications or installing new applications.

Table 16: Directory of Files to Backup

File Name	Directory
OFS_PFT_INS_SCHEMA_IN.xml	OFS_PFT_INS_PACK/schema_creator/conf

File Name	Directory
OFS_PFT_INS_SHCEMA_OUTPUT.xml	OFS_PFT_INS_PACK/schema_creator/
Silent.props	OFS_PFT_INS_PACK/appsLibConfig/conf

7.5 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>CommonRETServlet</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>
```

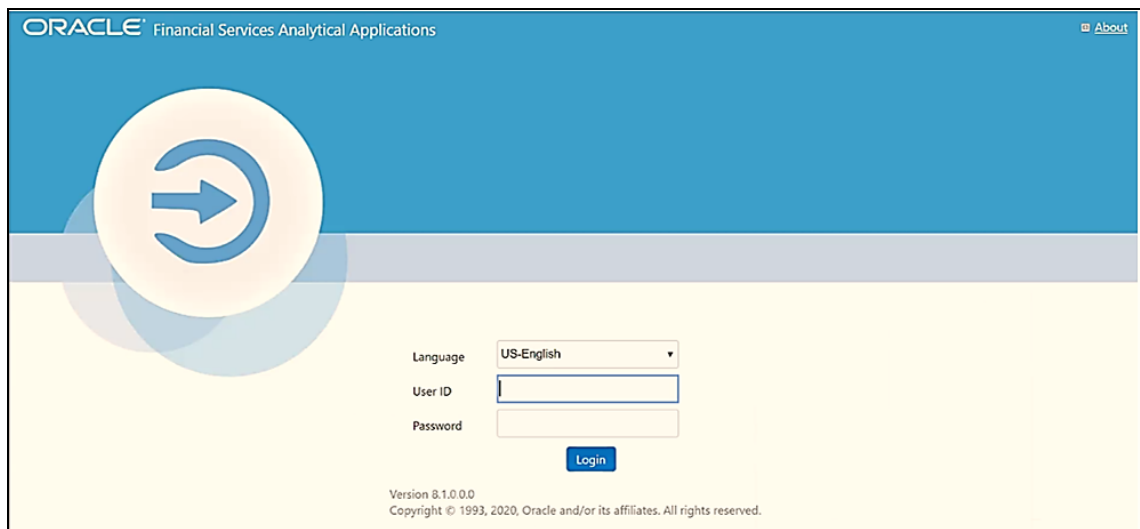
5. Save and close the file.
6. Re-start the application server.

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 18: OFSAA Login Window



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 [MOS Doc ID: 2691681.1](#) for the password.

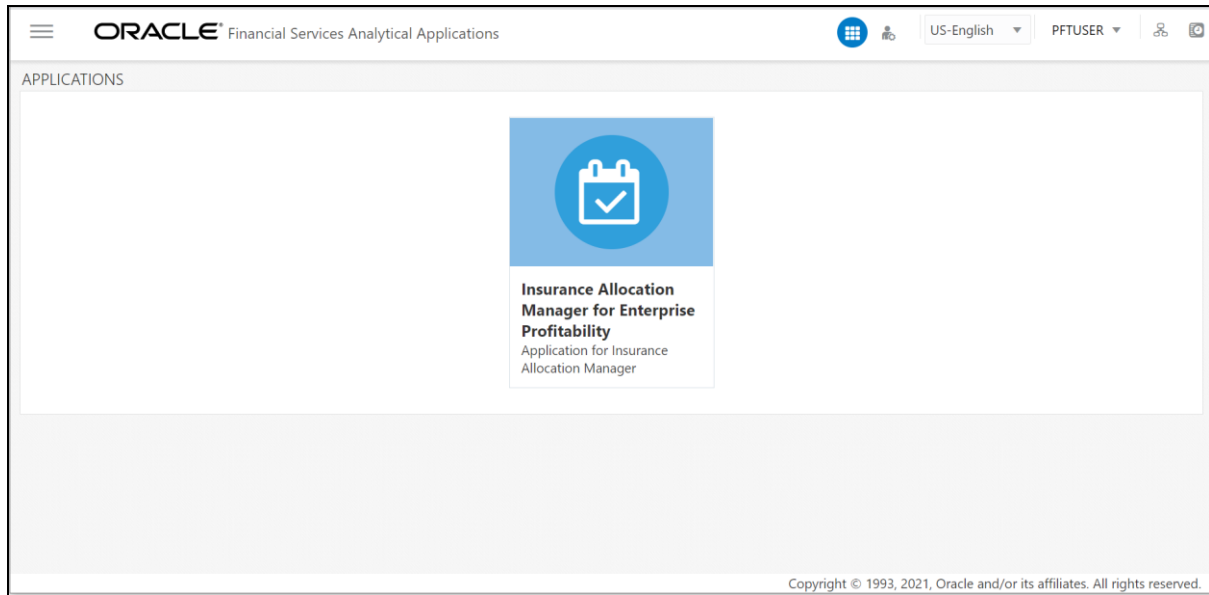
2. Log in to the application using the "SYSADMN" User ID and the default password. After the first log in, you are prompted to change the password.

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

7.7 OFSAA Landing Page

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

Figure 19: OFSAA Landing Page



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 [OFS Analytical Applications Infrastructure User Guide Release 8.1.1.0.0](#).

7.9 Change the ICC Batch Ownership

All the seeded batches in the PFT-INS application are automatically assigned to the SYSADMN user during installation. To see the batches in the Batch Maintenance menu, you must 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 must be transferred
- `infodom` is an optional parameter. If specified, the ownership of the batches pertaining to that `infodom` will be changed.

7.10 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/developerstudio12.5/lib/compile  
rs/CCgcc/lib/sparcv9:$LD_LIBRARY_PATH
```

7.11 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 8.1.1.0.0 Installation and Configuration Guide](#) to complete these procedures.

Table 17: Additional Configuration Checklist

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.
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.

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

8 Upgrade

Topics:

- [Upgrade Scenarios](#)
- [Prepare for Upgrade](#)
- [Post Upgrade Steps](#)

8.1 Download the OFSAAAI Applications Pack Installer and Mandatory Patches

To download the OFSAAAI Applications Pack Installer Release 8.1.2.0.0, follow these steps:

1. Log in to [My Oracle Support](#), search for the **33663417** Mandatory Patch in the **Patches & Updates** Tab and download it.

ATTENTION

On the 10th of December 2021, Oracle released Security Alert CVE-2021-44228 in response to the disclosure of a new vulnerability affecting Apache Log4J prior to version 2.15. The application of the **33663417** Mandatory Patch fixes the issue.

For details, see the My Oracle Support Doc ID [2827801.1](#).

8.2 Upgrade Scenarios

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

ATTENTION

Always ensure you run the upgrade installer only on the cloned environment.

Table 18: Upgrade Scenarios

Scenario	Upgrade Instructions
Upgrade from PFT-INS 8.1.0.1.0 to PFT-INS Pack 8.1.1.0.0	<ol style="list-style-type: none"> 1. Run the Environment Check Utility tool and ensure that the hardware and software requirements are installed as per the Tech Stack. 2. Update the Silent.props file present in the Release 8.1.1.0.0 pack. 3. Trigger the Release 8.1.1.0.0 installation.
Upgrade from PFT-INS 8.1.0.0.0 to PFT-INS Pack 8.1.1.0.0	<ol style="list-style-type: none"> 1. Run the Environment Check Utility tool and ensure that the hardware and software requirements are installed as per the Tech Stack. 2. Update the Silent.props file present in the Release 8.1.1.0.0 pack. 3. Trigger the Release 8.1.1.0.0 installation.

8.3 Prepare for Upgrade

Before you plan to install/upgrade any of your application packs to Release 8.1.1.0.0, ensure that all the application packs in your current OFSAA instance are available in the Release 8.1.1.0.0 version. Contact [My Oracle Support](#) for more information about the release version details.

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

1. Back up the OFSAA schemas from the Oracle Database server.
2. Backup the following environment files:
 - OFS_PFT_INS_PACK.xml from the OFS_PF_INS_PACK/conf directory
 - OFS_PFT_INS_SCHEMA_IN.xml from the OFS_PFT_INS_PACK/schema_creator/conf directory
 - OFSAAI_InstallConfig.xml from the /OFS_PFT_INS_PACK/OFS_AAI/conf directory
3. See the [OFS Analytical Applications Technology Matrix](#), Release 8.1.1.0.0 for the hardware and software required to upgrade to OFS AAI Release 8.1.1.0.0.
4. Enable unlimited cryptographic policy for Java. For more information, see the *Enabling Unlimited Cryptographic Policy* section in the [OFS Analytical Applications Infrastructure Administration and Configuration Guide](#).
5. In an integrated environment where OFS PFT-INS 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;
```

ATTENTION You must apply the OFS AAI patch **32530173** in case of Pack-on-Pack v8.1.1.0.0 installation. Do not apply this patch, if you have already applied it as part of another application pack's installation.

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;

/

```

8.3.1 Update the Silent.props File in Release 8.1.1.0.0 Pack

Update the Silent.props file present in the Release 8.1.1.0.0 pack.

Most parameters in the Silent.props file for 8.1.1.0.0 have default values. Before triggering the installation, ensure that you review them thoroughly and update as required.

1. Navigate to the `OFS_PFT_INS_PACK/appsLibConfig/conf` directory.
2. Open the `Silent.props` file and edit only the following parameters:

Table 19: Parameters for the Silent.props File

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_INS_ETL_APP SRC_TYPE	Create new ETL App or Src pair or use an existing one	0 = New 1 = Existing	#Mandatory if this an App layer installation. # That is, you have specified INSTALL_APP=1. # 0 = If you want to create a new ETL app or src pair # 1 = If you want to use an existing pair

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.

8.3.2 Trigger the Installation

1. Log in to OFSAA Infrastructure Config Schema and execute the following SQL query:

```
ALTER TABLE CONFIGURATION MODIFY PARAMNAME VARCHAR2 (100 CHAR);
```
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. Enter the OFSAA Processing Tier FTP/SFTP password value and proceed, when prompted.

Figure 20: OFSAA Processing Tier FTP/SFTP Password Prompt


```

TNS_ADMIN : /scratch/test81
Environment Variables Validation Completed. Status : SUCCESS
=====
OS specific Validation Started ...
Checking en_US.utf8 locale. Status : SUCCESS
Unix shell found : /bin/ksh. Status : SUCCESS
Hardware Architecture - SPARC. Status : SUCCESS
Time zone is configured properly. Current value : asia/kolkatta. Status : SUCCESS
OS version : 5.11. Status : SUCCESS
OS specific Validation Completed. Status : SUCCESS
=====
DB specific Validation Started ...
Oracle Client version : 18.0.0.0.0. Status : SUCCESS
client version 18.0
Successfully connected to schema uavy_ofsaatm. Status : SUCCESS
CREATE SESSION has been granted to user. Status : SUCCESS
CREATE PROCEDURE has been granted to user. Status : SUCCESS
CREATE VIEW has been granted to user. Status : SUCCESS
CREATE TRIGGER has been granted to user. Status : SUCCESS
CREATE MATERIALIZED VIEW has been granted to user. Status : SUCCESS
CREATE TABLE has been granted to user. Status : SUCCESS
CREATE SEQUENCE has been granted to user. Status : SUCCESS
SELECT privilege is granted for NLS_INSTANCE_PARAMETERS view. Current value : READ. Status : SUCCESS
NLS_LENGTH_SEMANTICS : BYTE. Current value : BYTE. Status : SUCCESS
NLS_CHARACTERSET : AL32UTF8. Current value : AL32UTF8. Status : SUCCESS
SELECT privilege is granted for V_$parameter view. Current value : SELECT. Status : SUCCESS
Open cursor value is greater than 1000. Current value : 6000. Status : SUCCESS
SELECT privilege is granted for USER_TS_QUOTAS view. Current value : READ. Status : SUCCESS
Schema is granted with at least 500 MB table space. Current value : Unlimited. Status : SUCCESS
Oracle db version 18
Oracle db R2 version 18.0
Oracle Server version Current value : 18.0.0.0.0. Status : SUCCESS
DB specific Validation Completed. Status : SUCCESS
=====
Environment check utility Status : SUCCESS
=====
*****
* Welcome to Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) Installation *
*****
Checking Infrastructure installation status ...
Infrastructure installation does not exist. Proceeding with Infrastructure installation ...
Triggering Infrastructure installation ...

Please enter Infrastructure FTP/SFTP password : █

```

4. The OFS AAI installation begins.

Figure 21: OFS PFT-INS Installation

```

taller:
1. Oracle Financial Services Analytical Applications Infrastructure
2. Oracle Financial Services Enterprise Modeling
3. Oracle Financial Services Big Data Processing
* Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) is the base infrastructure for all OFSAA applications and is therefore automatically installed and enabled by the application pack installer.*
* The application pack installer always installs Oracle Financial Services Enterprise Modeling, Oracle Financial Services In-line Processing Engine and Oracle Financial Services Big Data Processing application options along with the application pack applications, but enables them only if any application that requires their functionality is enabled.*
* Any OFSAA application that is enabled must be licensed for use. Oracle Financial Services Analytical Applications Infrastructure, Oracle Financial Services Enterprise Modeling, Oracle Financial Services In-line Processing Engine and Oracle Financial Services Big Data Processing are individually licensable application options.*
* Application products once enabled cannot be disabled. Application products not enabled on installation, may later be enabled using the "Manage OFSAA Product License(s)" feature of the platform.*
*****
Are you accepting the terms and conditions mentioned above? [Y/N]:
Y
log4j:WARN No appenders could be found for logger (org.apache.commons.vfs2.impl.StandardFileSystemManager).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
hostname is [redacted] oracle.com
hostname is [redacted] oracle.com
Starting installation...
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...

-----
OFSAAInfrastructure (created with InstallAnywhere)
-----

Installing...

[-----]

```

Data Model Upload may take several hours to complete.

Figure 22: Installation In Progress

```

Preparing SILENT Mode Installation...

=====
pack_installsilent                               (created with InstallAnywhere)
=====

Installing...

[-----|-----|-----|-----]
[-----|-----|-----|-----]

Installation Complete.
failurecount --- 0
Core Installation completed successfully
Pack Name found is: OFS_AAAI_PACK
[DynamicServiceManager][GlobalParameters.ISWEB]false
FIC_HOME:/scratch/test81/OFSAAI_81FULL/
Pack ID got for Synch is OFS_AAAI_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.
configConnection : 1935122449, URL=jdbc:oracle:thin:@.oracle.com:1521/, Username= OFSAACONF, Oracle JDBC driver
configConnection : 872826668, URL=jdbc:oracle:thin:@.oracle.com:1521/, Username= OFSAACONF, Oracle JDBC driver
appQuery select V_APP_ID from AAI_APP_PACK_AUDIT_TRAIL where V_APP_PACK_ID= ? and D_ENABLE_DATE is not null packID : OFS_AAAI_PACK
V_APP_ID OFS_AAAI
appList OFS_AAAI
configConnection : 1534755892, URL=jdbc:oracle:thin:@.oracle.com:1521/, Username= OFSAACONF, Oracle JDBC driver
Pack ID got for synchPackData is OFS_AAAI_PACK
configConnection : 343563528, URL=jdbc:oracle:thin:@.oracle.com:1521/, Username= OFSAACONF, Oracle JDBC driver
[decryptDATFile]Error: Dat file does not exist for pack OFS_AAAI
getPreReq fr OFS_AAAI
configConnection : 1142347343, URL=jdbc:oracle:thin:@.oracle.com:1521/, Username= OFSAACONF, Oracle JDBC driver
appList.size 2
Final appIds OFS_AAI
Final appIds OFS_AAAI
configConnection : 1581078471, URL=jdbc:oracle:thin:@.oracle.com:1521/, Username= OFSAACONF, Oracle JDBC driver
configConnection : 332699949, URL=jdbc:oracle:thin:@.oracle.com:1521/, Username= OFSAACONF, Oracle JDBC driver
Utility triggered for XML files

```

5. The following message is displayed in the console:

Installation completed.

8.3.3 Verify the Log File Information

See the following logs files for more information:

- Pack_install.log file in the OFS_PFT_INS_PACK/logs/ directory.
- Infrastructure installation log files in the OFS_PFT_INS_PACK/OFS_AAI/logs/ directory.
- PFT-INS installation log file in the OFS_PFT_INS_PACK/OFS_PFT_INS/logs directory

8.4 Post Upgrade Steps

Perform the following steps after completing the upgrade:

8.4.1 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>

```

```

<servlet-
class>com.ofs.fsapps.commonapps.core.summary.common.ContextDocLoade
r</servlet-class>

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

</servlet>

```

4. [Create and deploy](#) the EAR/WAR files.

8.4.2 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.

8.5 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/compilers/CC-gcc/lib/sparcv9:$LD_LIBRARY_PATH
```

8.6 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 [OFS Analytical Applications Infrastructure User Guide Release 8.1.1.0.0](#).

9 **Installing OFS PFT-INS 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 8.1.1.0.0. For example, OFS Asset Liability Management is already installed and now you want to install OFS PFT-INS Pack.

For installation instructions the OFS Profitability Management application, see the [Installation](#) section.

10 **Migrate Excel Upload Functionality**

See the [Migrate Excel Upload](#) section in the [OFS Advanced Analytical Applications Infrastructure Installation Guide Release 8.1.1.0.0](#) 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 [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#).

OFSAA Support

Raise a Service Request (SR) in [My Oracle Support \(MOS\)](#) for queries related to the OFSAA applications.

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