# Oracle Insurance Allocation Manager for Enterprise Profitability

## Installation and Configuration Guide

**Release 8.1.0.0.0**

**Dec 2020**

**F33214-01**

ORACLE
Financial Services

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Oracle Insurance Allocation Manager for Enterprise Profitability Installation and Configuration Guide

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# Document Control

| Version Number | Revision Date | Change Log |
|---|---|---|
| 1.3 | 09-August-2020 | Added information for the mandatory one-off patch 31605076 in the Download the Application Pack Installer and Erwin Data Models and Extract the Software sections and included Patch OFSAA Infrastructure Installation sections. |
| 1.2 | July-2020 | Added information for the mandatory one-off patch 31545589 in the Download the Application Pack Installer and Erwin Data Models and Extract the Software sections. |
| 1.1 | 20-July-2020 | Added information for the one-off patch 31509494 for Solaris in the Download the Mandatory OFS AAI Patch section. |
| 1.0 | 17-Jul-2020 | Created the document with instructions for the installation of the Oracle Insurance Allocation Manager for Enterprise Profitability Pack Release 8.1.0.0.0. |

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# 1 Preface

This preface provides information required for installing the Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack.

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. To obtain login credentials, contact Oracle Support.

**Topics:**


- Intended Audience
- How this Guide is Organized
- Related Documents
- Conventions
- Abbreviations


## 1.1 Intended Audience

The Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack Installation and Configuration Guide is intended for administrators, business users, strategists, and data analysts, who install and maintain the application pack.

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

- Oracle Insurance Allocation Manager for Enterprise Profitability 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 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.

OHC Documentation Library for the Oracle Insurance Allocation Manager for Enterprise Profitability Release 8.1.0.0.0:

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

For documents related to OFS AAAI Application Pack Release 8.1.0.0.0, access documentation online from this page on the OHC Documentation Library.

- OFS Advanced Analytical Applications Infrastructure Installation Guide Release 8.1.0.0.0
- OFS Advanced Analytical Applications Infrastructure User Guide Release 8.1.0.0.0
- OFS Advanced Analytical Applications Infrastructure Environment Check Utility Guide Release 8.1.0.0.0
- OFS Advanced Analytical Applications Infrastructure Application Pack Administration and Configuration Guide Release 8.1.0.0.0
- OFS AAAI Application Security Guide Release 8.1.x
- Oracle Financial Services Analytical Applications Infrastructure Cloning Guide Release 8.1.x
- OFSAA Licensing User Manual, Release 8.1.0.0.0
- Oracle Financial Services Analytical Applications Technology Matrix

## 1.4 Conventions

The following text conventions are used in this document.

**Table 1:Document Conventions**

| Convention | Meaning |
|---|---|
| **boldface** | Boldface type indicates graphical user interface elements associated with an action or terms defined in text or the glossary. |
| *italic* | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values. |
| `monospace` | Monospace type indicates commands within a paragraph, URLs, code in examples, file names, text that appears on the screen, or text that you enter. |

| Convention | Meaning |
|---|---|
| Hyperlink | Hyperlink type indicates the links to external websites and internal document links. |

## 1.5 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 |
| LDAP | Lightweight Directory Access Protocol |
| LHS | Left Hand Side |
| MFA | Multi-Factor Authentication |
| MOS | My Oracle Support |

| Abbreviation | Meaning |
|---|---|
| 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 Introduction

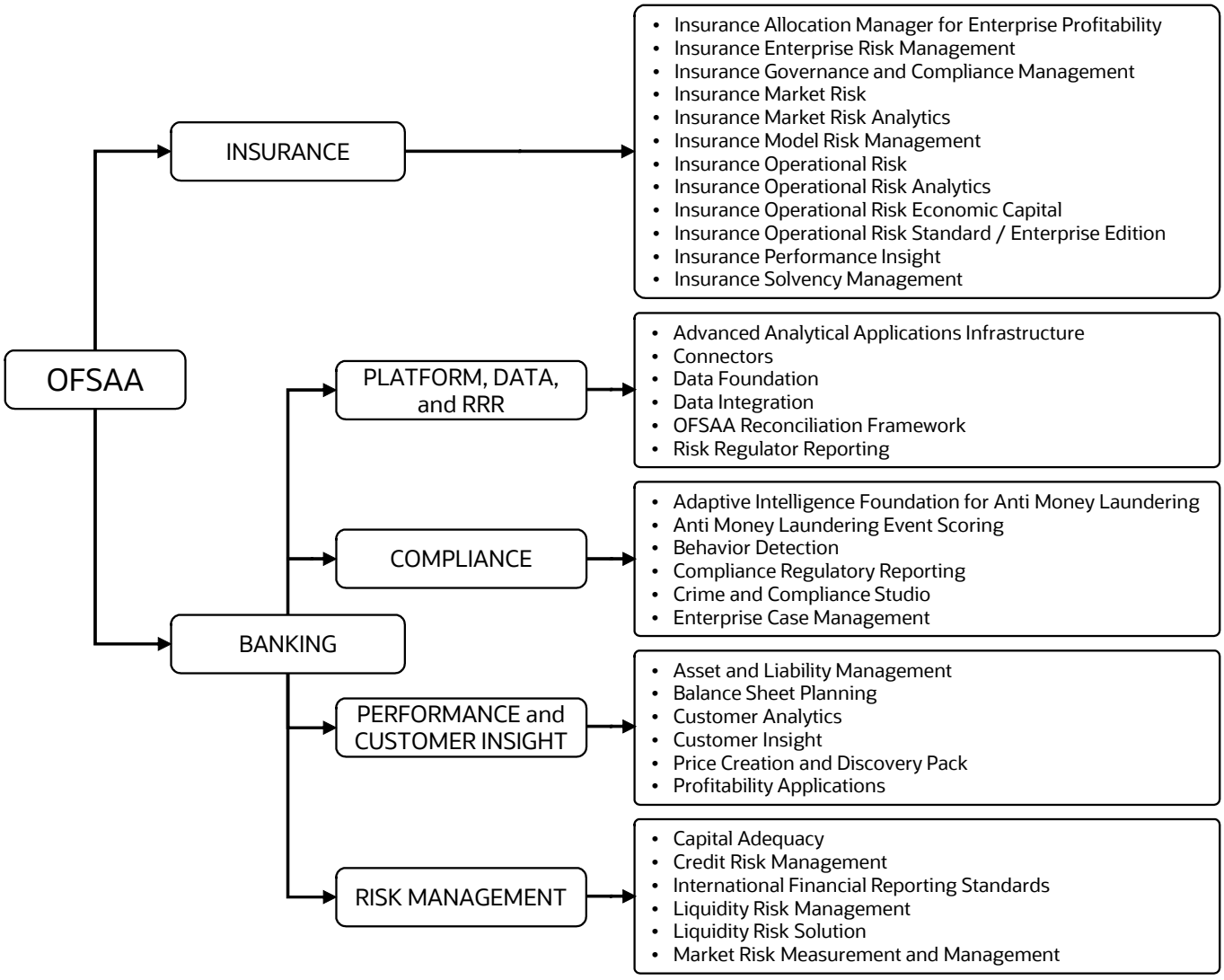
In today's turbulent markets, financial institutions require a better understanding of their risk-return, while strengthening competitive advantage and enhancing long-term customer value. Oracle Financial Services Analytical Applications (OFSAA) enable financial institutions to measure and meet risk-adjusted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

**Topics**:

- Components of OFSAA Infrastructure
- OFSAA Infrastructure High Availability
- Deployment Topology

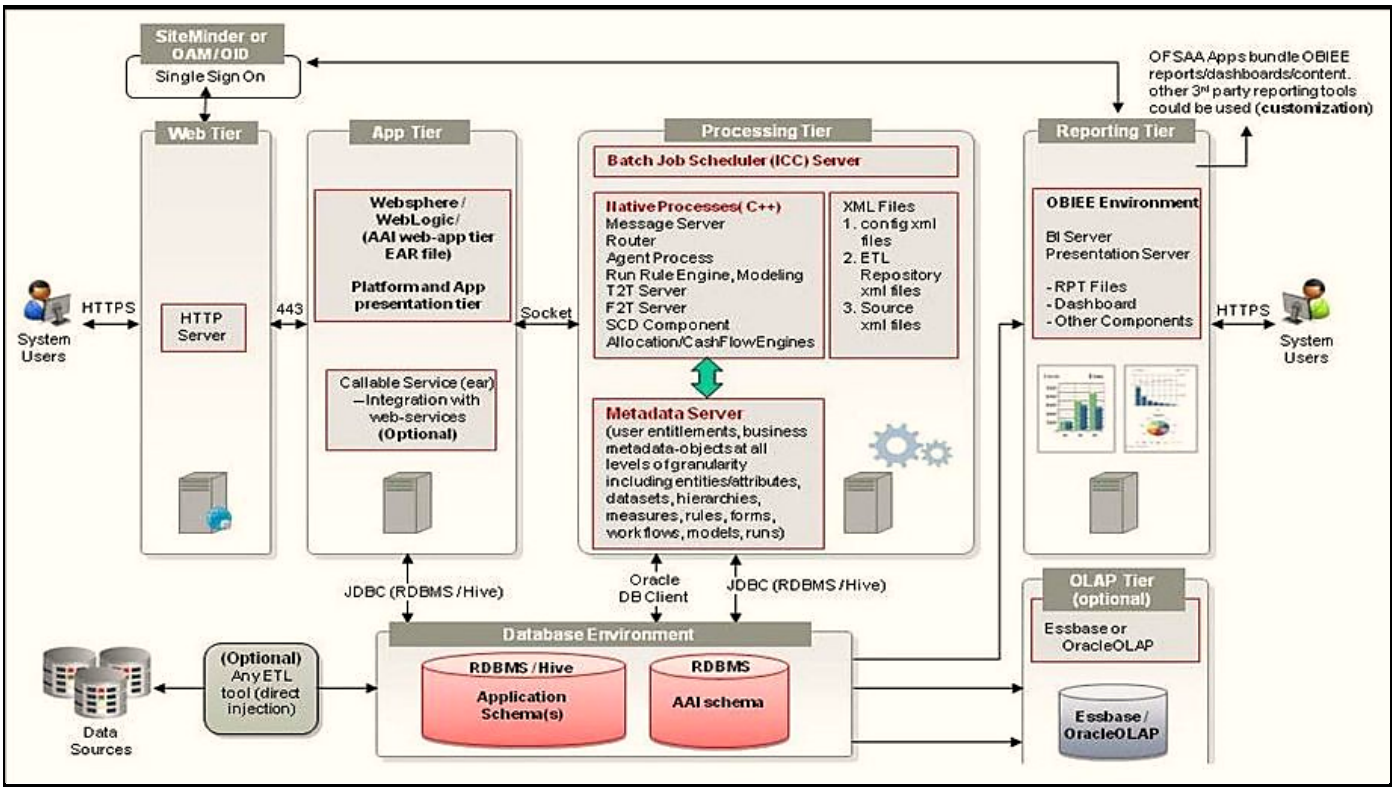

## 2.1.1 Components of OFSAA Infrastructure

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 layers 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

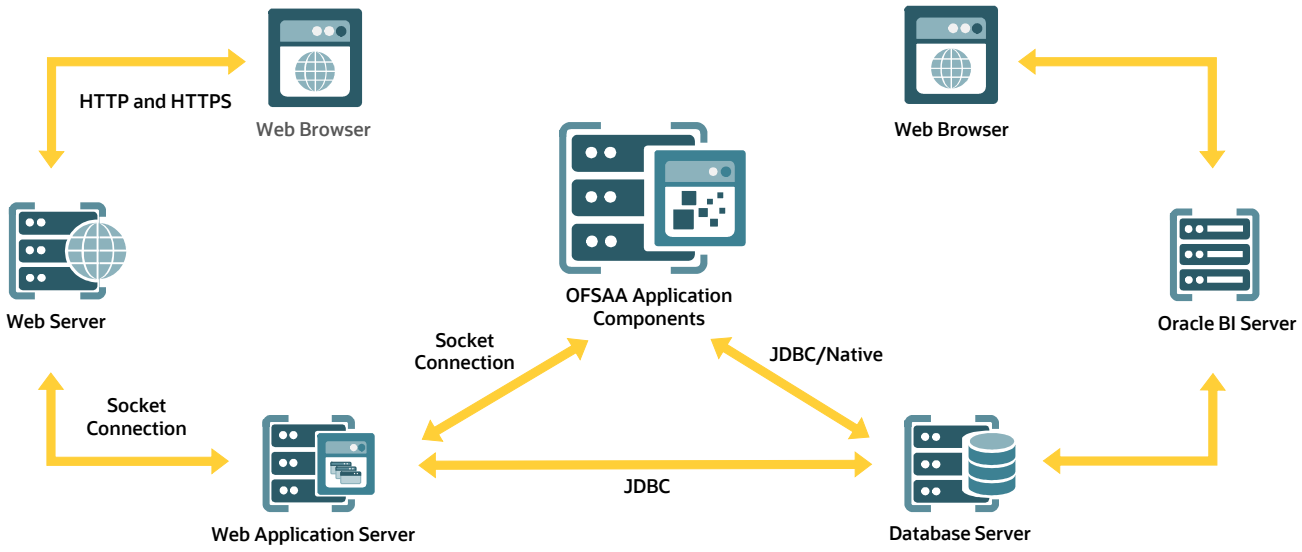
The current release of the OFSAA Infrastructure supports only the "Single Instance" installation for the Infrastructure components. However, the High Availability (HA) for the Database Server and/ or the Web application server clustering and deployment is supported in this release.

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 About Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack

Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack 8.1.0.0.0 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 8.1.0.0.0 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

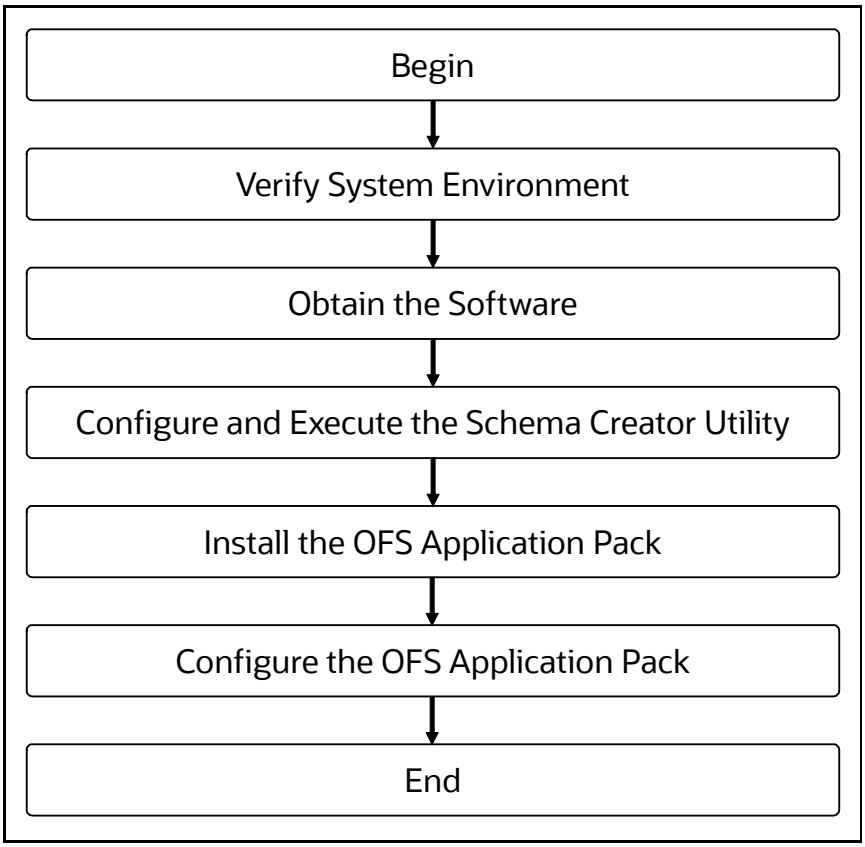
> **NOTE** The pack is enabled by the procurement of an additional license. For more information, see the OFS AAIE Release Notes and Installation Guide on the OHC Documentation Library.

## 2.4 Installation Overview

Release 8.1.0.0.0 of Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack supports fresh installation and also upgrade from versions 8.0.8.1.0 or later.

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

To install and configuring the software, you must perform the steps listed in the Complete 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:<br>• Installation directory<br>• Temporary directory<br>• Staging Area/Metadata Repository<br>• Download directory |
| 7 | Configure the following Operating System and File System settings:<br>• File Descriptor<br>• Total number of processes<br>• Port(s)<br>• `.profile` file permissions<br>• Add FTP/SFTP configuration for file transfer |
| 8 | Update the following Environment Settings required for the installation in the `.profile` file:<br>• Java Settings<br>• Oracle Database Server and Client Settings<br>• Add TNS entries in the `tnsnames.ora` file<br>• Oracle Essbase Settings<br>• Time Zone Settings |
| 9 | Download the installer kit and erwin data models. |
| 10 | Perform prerequisites for installation. |

| Sl. No. | Installation Activity |
|---|---|
| 1 | Extract the installer kit. |
| 2 | Install the Pre-installation Patches. |
| 3 | Configure the `OFS_PFT_INS_PACK.xml` file. |
| 4 | Configure the `OFS_PFT_INS_SCHEMA_IN.xml` file. |
| 5 | Execute the Schema Creator Utility in Offline, Online, or TCPS modes and verify the log file. |

| Sl. No. | Installation Activity |
|---|---|
| 6 | Configure the `OFSAAI_InstallConfig.xml` file. |
| 7 | Configure the `Silent.props` file. |
| 8 | Trigger the application installation. |

| Sl. No. | Post-installation Activity |
|---|---|
| 1 | Verify the installation logs. |
| 2 | Patch OFSAA Infrastructure Installation. |
| 3 | Back up the `SCHEMA_CREATOR.xml`, `OFS_PFT_INS_SCHEMA_OUTPUT.xml`, and `Silent.props` files. |
| 4 | Stop the OFSAA Infrastructure services. |
| 5 | Create and deploy EAR/WAR files. |
| 6 | Start the OFSAA Infrastructure services. |
| 7 | Configure the webserver. |
| 8 | Configure the Resource Reference in web application servers. |
| 9 | Configure the Work Manager in the Web Application Servers. |
| 10 | Access the OFSAA application. |
| 11 | Configure the `excludeURLList.cfg` file |
| 12 | Change the ICC batch ownership. |
| 13 | Add TNS entries in the `tnsnames.ora` file. |
| 14 | Create Application Users. |
| 15 | Map the Application User(s) to User Groups. |
| 16 | Excel upload mapping and template. |
| 17 | Set TDE and Data Redaction in OFSAAI. |
| 18 | Implement Data Protection in OFSAA. |

| Sl. No. | Additional Configuration Activity |
|---|---|
| 1 | Add FTP/SFTP Configuration for File Transfer. |
| 2 | Configure the Infrastructure Server Memory. |
| 3 | Retrieve the Patch Information |
| 4 | Change IP or Hostname, Ports, Deployed Paths of the OFSAA Instance. |
| 5 | Execute the OFSAAI Setup Information Fetching Tool. |

| Sl. No. | Additional Configuration Activity |
|---|---|
| 6 | Execute the Encryption changer. |
| 7 | Configure the Infrastructure LDAP Configuration. |
| 8 | Configure and deploy the OFSAAI web services. |
| 9 | Enable Parallel Execution of DML statements. |
| 10 | Configure the Message details in the Forms Designer. |
| 11 | Clear the application cache. |
| 12 | Configure password changes. |
| 13 | Configure Java Virtual Machine. |
| 14 | Configure Internal Service (Document Upload/Download). |

# 4 Pre-installation

This section contains the pre-installation requirements to install the Oracle Insurance Allocation Manager for Enterprise Profitability Applications Pack.

**Topics:**


- Pre-installation Checklist
- Hardware and Software Requirements and Specifications
- Preparing for Installation
- Installation Overview
- Installation and Upgrade Scenarios
- Compatibility Matrix


## 4.1 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 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 | Create the Installation, Download, and Metadata Repository Directories:<br>• Installation directory<br>• Temporary directory<br>• Staging Area/Metadata Repository<br>• Download directory |
| 7 | Configure the following Operating System and File System settings:<br>• File Descriptor<br>• Total number of processes<br>• Port(s)<br>• `.profile` file permissions<br>• Add FTP/SFTP configuration for file transfer |

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

## 4.2 Hardware and Software Requirements and Specifications

For a list of all the hardware and software requirements including operating systems, database, web servers, and web application server versions for which this release of the Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack is qualified can be found in the OFS Analytical Applications Technology Matrix.

### 4.2.1 License Information

For details of the third-party software tools used, see the OFSAA Licensing Information User Manual Release 8.1.0.0.0.

### 4.2.2 Verify System Environment

To verify 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 can also be obtained separately by contacting My Oracle Support.

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 information on downloading and using this utility, see the Oracle Financial Services Analytical Applications Infrastructure Environment Check Utility Guide.

## 4.3 Preparing for Installation

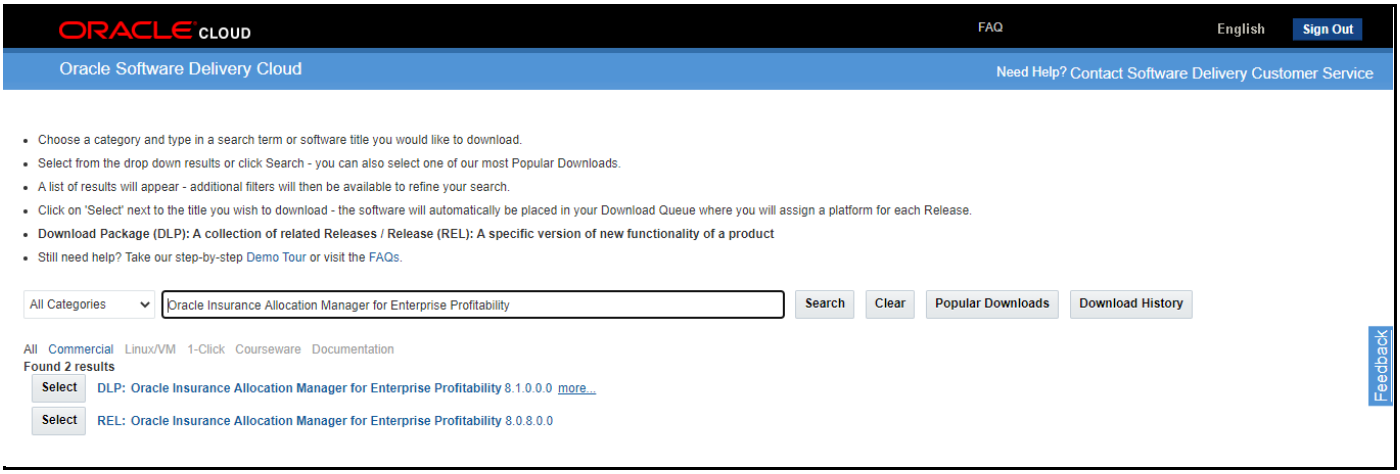
This section describes how to download the installer and the mandatory prerequisites you must ensure installing the Oracle Insurance Allocation Manager for Enterprise Profitability Pack.

### 4.3.1 Download the Application Pack Installer and Erwin Data Models

To download the Oracle Insurance Allocation Manager for Enterprise Profitability Applications Pack Installer Release v8.1.0.0.0, follow these steps:

1. Log in to the Oracle Software Delivery Cloud with a valid Oracle account.
2. Search for the full product name **Oracle Insurance Allocation Manager for Enterprise Profitability Applications Pack** and download the installer archive.

**Figure 5: Oracle Software Delivery Cloud Page**




3. Download the installer archive and copy (in Binary mode) to the download directory in the setup identified for Oracle Insurance Allocation Manager for Enterprise Profitability Applications Pack installation.
4. Download the Oracle Insurance Allocation Manager erwin data model: Patch **31605592** from My Oracle Support.

   You can search for the patch number in the **Patches and Updates** tab and download it.
5. Download the erwin data model patch **31605592** from My Oracle Support.

   You can search for the patch number in the **Patches and Updates** tab and download it.

**NOTE** Data model patches are now released at the granularity of each application. This is in contrast to the strategy followed for Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack 8.0.x releases, where data model patches were only released at the pack level. Customers must download the data models as per the application licenses they hold and merge with the custom data model.

- The installer will only upload the data model of the selected applications. Data models of the unselected or unlicensed applications will not be uploaded, that is data model-upload is skipped for the unselected or unlicensed applications.
- The installer will only execute the installer scripts of the selected applications. Scripts of the unselected or unlicensed applications will not be executed and are skipped.
- If all applications in the pack are selected, then the installer handles both the data model upload and the installation scripts execution

### 4.3.2 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 8.1.0.0.0 Installation and Configuration Guide.

## 4.4 Compatibility Matrix

This table lists the applications or app-combinations that must not be installed on a single infodom.

**Table 4: Compatibility Matrix**

| If you are installing | Do not install |
|---|---|
| OFS_PFT_PACK | Oracle Insurance Allocation Manager for Enterprise Profitability Pack<br>OFS_BD_PACK<br>OFS_CRR_PACK? |
| Oracle Insurance Allocation Manager for Enterprise Profitability Pack | OFS_PFT_PACK<br>OFS_ALM_PACK<br>OFS_BSP_PACK |
| OFS_ALM_PACK | Oracle Insurance Allocation Manager for Enterprise Profitability Pack |
| OFS_BSP_PACK | Oracle Insurance Allocation Manager for Enterprise Profitability Pack |

**NOTE** If you are upgrading the OFSAA Application Pack to release v8.1.0.0.0, you must upgrade the other packs installed in the same environment to release v8.1.0.0.0, to ensure successful deployment.

For example, If you are upgrading the PFT-INS Application Pack to release v8.1.0.0.0, you must upgrade the other packs (PFT, ALM, IFRS, and so on) installed in the same environment to release v8.1.0.0.0, to ensure successful deployment.

# 5 Installation

This section provides detailed steps to install the Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack.

**Topics:**


- Installation Checklist
- Extract the Software
- Install the Pre-installation Patches
- 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 Applications Pack


## 5.1 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 5: Installation Checklist**

| Sl. No. | Installation Activity |
|---|---|
| 1 | Extract the installer kit. |
| 2 | Install the Pre-installation Patches. |
| 3 | Configure the `OFS_PFT_INS_PACK.xml` file. |
| 4 | Configure the `OFS_PFT_INS_SCHEMA_IN.xml` file. |
| 5 | Execute the Schema Creator Utility in Offline, Online, or TCPS modes and verify the log file. |
| 6 | Configure the `OFSAAI_InstallConfig.xml` file. |
| 7 | Configure the `Silent.props` file. |
| 8 | Trigger the application installation. |

## 5.2 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 Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack Release 8.1.0.0.0 installer archive file in the download directory using the following command:

   ```
   OFS_PFT_INS_8.1.0.0.0_<OS>.zip
   ```

4. Extract the following one-off patches in the download directory:

   a. **31545589**

   b. **31605076** (See the **Readme** packaged with the patch for further instructions on how to install the patch).

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

   ```
   chmod -R 750 OFS_PFT_INS_PACK
   ```

## 5.3 Install the Pre-installation Patches

Before installing OFSAAAI 8.1.0.0.0, apply the **31545589** one-off patch. See the **Readme** packaged with the patch for further instructions on how to install it.

See My Oracle Support for more information on the latest release.

## 5.4 Configure the OFS_PFT_INS_PACK.xml File

The `OFS_PFT_INS_PACK.xml` file contains details on the various products that are packaged in the Oracle Insurance Allocation Manager for Enterprise Profitability application pack.

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

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

**Figure 6: Sample OFS_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>8.1.0.0.0</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>8.1.0.0.0</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>8.1.0.0.0</VERSION>
    </APP>
</APP_PACK_CONFIG>
```

3. Configure the `OFS_PFT_INS_PACK.xml` file as mentioned in the following table.

**Table 6: OFS_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. |
| IS_OPT_INSTALL VALUE="TRUE" | Unique Application Entry | 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. |
| APP_ID/ PREREQ | Prerequisite Application or Product | Y | Unique Seeded Value.<br>For most applications, the prerequisite that is set is OFS AAAI. For all other applications, the default Application ID is set to none.<br>You can set it for the applications you want to install.<br>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.<br>Do not modify this value. |

| Tag Name and Attribute Name | Description | Mandatory (Y or N) | Comments |
|---|---|---|---|
| APP_ID/ ENABLE | Enable Application or Product | Y | • Default YES for Infrastructure<br>• NO for Others<br>Set this attribute-value to YES against every APP_ID which is licensed and must be enabled for use.<br>**NOTE**: The Application/Product cannot be disabled once enabled.<br>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.

## 5.5 Configure the Schema Creator Utility

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 more.

Configure and execute the schema creator utility before installing the Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack.

**Topics:**


- Prerequisites
- Configure Schema Creator Utility for RDBMS Installation
- Execute the Schema Creator Utility


### 5.5.1 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.

## 5.5.2 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.

### 5.5.2.1 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 7: 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 7: 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> | Enter the JDBC URL.<br>You can enter the RAC/ NON-RAC enabled database connectivity URL. | Y | Example:<br>jdbc:oracle:thin:@< DBSERVER IP/ HOST/ IP>:<PORT>:<SID><br>or<br>jdbc:oracle:thin:@//[HOS T][:PORT]/ SERVICE<br>or<br>jdbc:oracle:thin:@(DESCRI PTION=(ADDRESS_ LIST=(ADDRESS=(PROT OCOL=TCP)(HOST=[HO ST])(port=[PORT]))(ADD RESS=(PROTOCOL=TCP) (HOST=[HOST])(PORT=[ PORT]))(LOAD_ BALANCE=yes)(FAILOV ER=yes))(CONNECT_ DATA=(SERVICE_ NAME=[SERVICE])))<br>For example:<br>jdbc:oracle:thin:@//dbhos t.server.com:1521/service 1<br>or<br>jdbc:oracle:thin:@//dbsho st.server.com:1521/scan-1<br>or<br>jdbc:oracle:thin:@(DESCRI PTION=(ADDRESS_ LIST=(ADDRESS=(PROT OCOL=TCP)(HOST=dbho<br>st1.server.com)(port=1521)<br>)(ADDRESS=(PROTOCO<br>L=TCP)(HOST=dbhost2.s erver.com)(PORT=1521))( LOAD_ BALANCE=yes)(FAILOV ER=yes))(CONNECT_ DATA=(SERVICE_<br>NAME=service1))) | Ensure that you add an entry (with SID/ SERVICE NAME) in the `tnsnames.ora` file on the OFSAA server. The entry must match the SID/ SERVICE NAME used in the JDBC URL.<br>Ensure that you have configured:<br>1. The correct Oracle Wallet with the credentials for stored Sys, Config, and Atomic Users.<br>2. The JDBC URL as follows: `jdbc:oracle:thin:/@`<br>For more information on how to configure Oracle Wallets for OFSAA Installation and Data Sources, see the OFS Analytical Applications Infrastructure Administration Guide. |

| Tag Name and Attribute Name | Description | Mandatory (Y or N) | Default Value or Permissible Value | Comments |
|---|---|---|---|---|
| <JDBC_DRIVER> | The name of the driver is seeded. | Y | Example: oracle.jdbc.driver.OracleDriver | Only JDBC Thin Driver is supported.<br>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.<br>On executing the schema creator utility, this value is prefixed with each schema name. For example: dev_ofsaaconf, uat_ofsaatm. | Y | Accepts strings with a minimum length of two and a maximum of four.<br>Example: DEV, SIT, PROD | This message appears in the OFSAA Landing Page as "Connected To: DEV".<br>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.<br>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_PFT_INS_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<br>Permissible value: Y or N<br><br>Enter Y if you want to apply the password specified in the DEFAULT attribute for all the schemas.<br>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.<br>By default, the schema types are seeded based on the Application Pack. | Y | ATOMIC/CONFIG/SANDBOX/ADDON<br>SANDBOX and ADDON schemas do not apply to OFS_PFT_INS_PACK. | Only One CONFIG schema can exist in the file.<br>Do not edit this attribute value.<br>This schema identifies as the CONFIGURATION schema that holds the OFSAA setup details and other Metadata information.<br>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 | The schemas' names are seeded based on the Application Pack by default.<br>You can edit the schema names if required.<br>The Schema Name will have a prefix of the SETUPINFO/ NAME attribute.<br>SCHEMA NAME must be the same for all the ATOMIC Schemas of the applications within an Application Pack. | Y | The permissible length is 15 characters and only alphanumeric characters are allowed. No special characters are allowed except underscore _. | The SETUPOINFO/NAME attribute value is prefixed to the schema name being created.<br>For example, if a name is set as 'ofsaatm' and setupinfo as 'uat', then the schema created is 'uat_ofsaatm'.<br>NAME must be the same where APP_GRP=1 for all SCHEMA tags (not applicable for this Application). |
| <SCHEMA>/PASSWORD | Enter the password of the schema to be created.<br>If this attribute is left blank, then the password specified in the <PASSWORD>/DEFAULT attribute is taken as the Schema Password. | 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.<br>If this attribute is left blank, then USERS is set as the default tablespace. | N | Default value: USERS<br>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.<br>If this attribute is left bank, TEMP is set as the default tablespace. | N | Default value: TEMP<br>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.<br>Minimum: 500M or Unlimited on default Tablespace. | N | Example:<br>600M or 600m<br>20G or 20g<br>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.<br>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.<br>For details, see the example following the rows. |
| <ADV_SEC_OPTIONS>/TDE | Tag to enable/disable TDE feature. | N | The default value is FALSE.<br>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.<br>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.<br>For details, see the example that follows the table.<br>When TDE is TRUE in ADV_SEC_OPTIONS,<br>it is mandatory for the<br><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<br>OFSAA_DATA_TBSP | Name, if specified, must be referred in the <SCHEMA DEFAULTTABLESPACE= "##NAME##"> attribute.<br>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.<br>**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>
```

---

# 5.6 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


## 5.6.1 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_PACK/schema_creator/bin` directory.
3. Execute the `osc.sh` file using the following command:

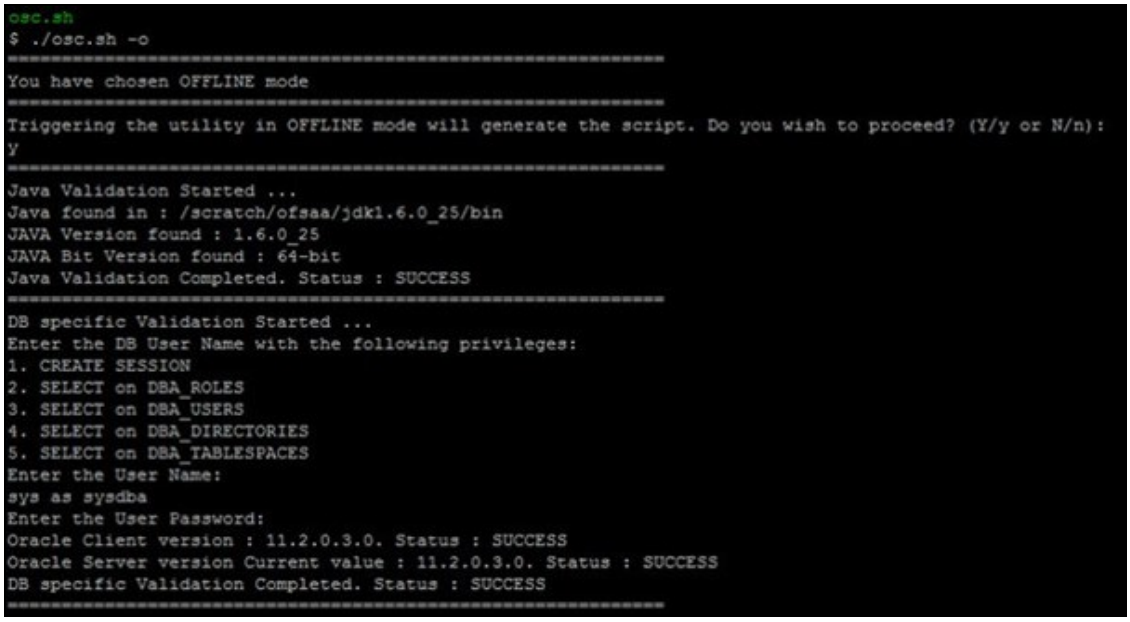
   ```
   ./osc.sh -o -s
   ```

   The following message is displayed:

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

   Enter **Y** to proceed.
4. Enter the DB Username with SELECT privileges.
5. Enter the User Password.

**Figure 8: Schema Creation Offline Mode – Enter User Password**




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

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

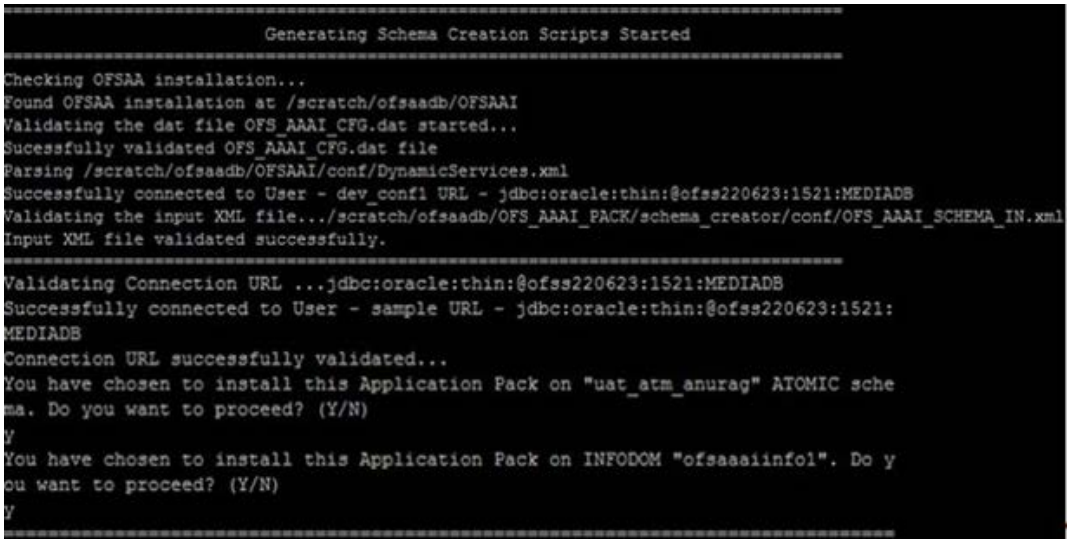
6. Enter **Y** to start the script generation.

   The following message is displayed:

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

   Enter **Y** to proceed.

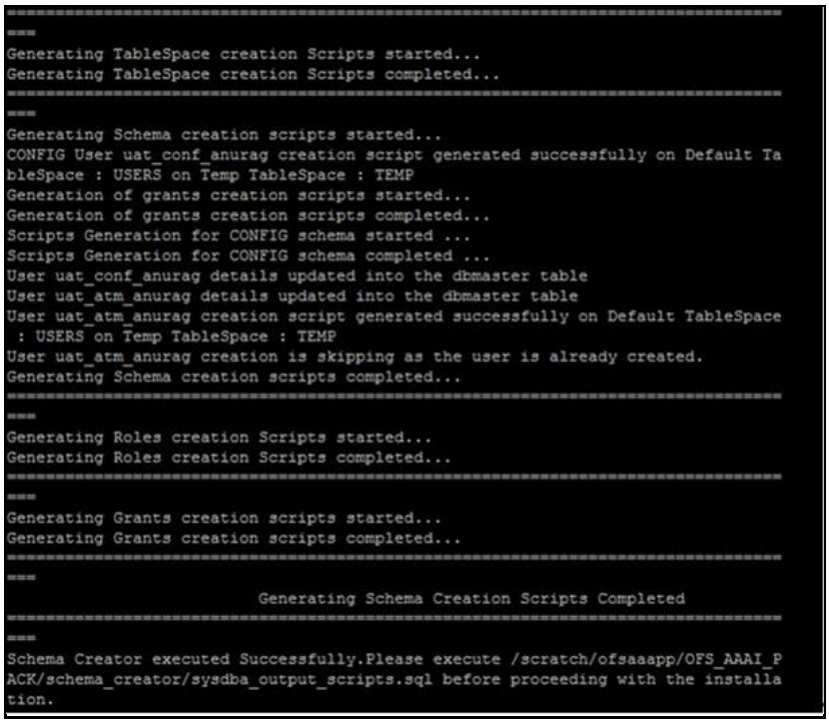
**Figure 9: Script Generation**



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

   *Schema Creator executed successfully. Execute the file scratch/ofsaaapp/OFS_PFT_INS_PACK/schema_creator/sysdba_output_scripts.sql before proceeding with the installation.*

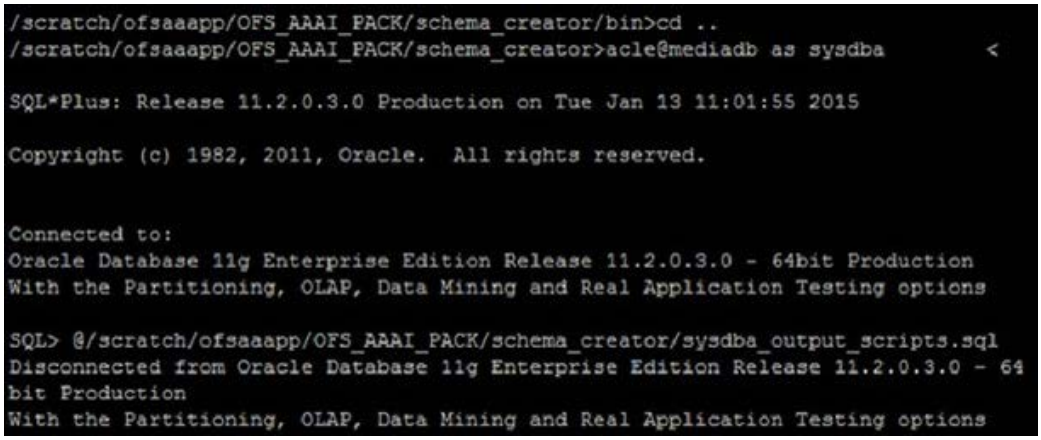
**Figure 10: Message to execute the sysdba_output_scripts.sql file**




> **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.

8. Navigate to the `OFS_PFT_INS_PACK/schema_creator` directory.
9. Log in to the database using credentials with SYSDBA privileges.

**Figure 11: Schema Creator Offline Mode**




10. 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.

The `OFS_PFT_INS_SCHEMA_OUTPUT.XML` file is successfully generated. Do not modify this file.

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

Choose the Online Mode option if you have login credentials to the database with SYSDBA privileges.

In this mode, the utility connects to the database and executes the DDLs for Users, Objects, and Grants.

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_PACK/schema_creator/bin` directory.
3. Execute the utility.

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

The `OFS_PFT_INS_SCHEMA_OUTPUT.XML` file is successfully generated. Do not modify this file.

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

If you intend to run the Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack Installer in TCPS mode, it is mandatory to execute the schema creator utility with the `-s` option and in the Online mode.

#### 5.6.3.1 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 should be 8.1.0.0.0 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.

##### 5.6.3.1.1 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_OFSAAATM, then the value for ATOMICALIASNAME must be entered as PRODOFSAAATM.

### 5.6.3.2 Execute the Schema Creator Utility

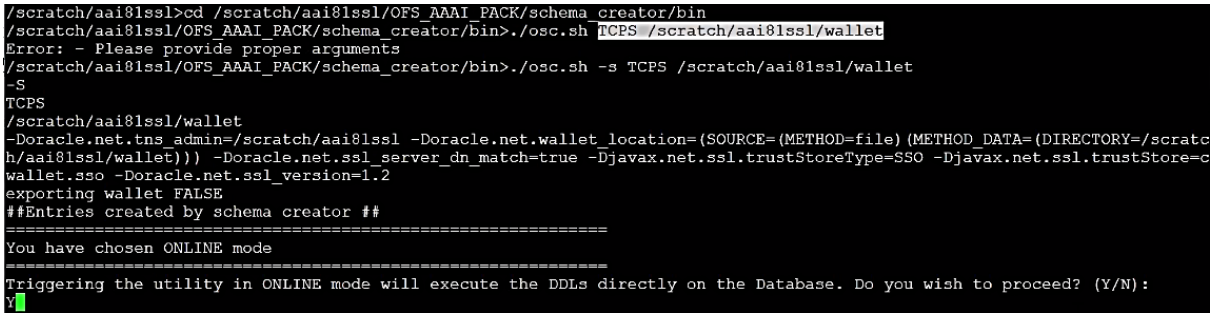
To execute the utility, follow these steps:

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 12: Schema Creation in the TCPS Mode**




The following message is displayed:

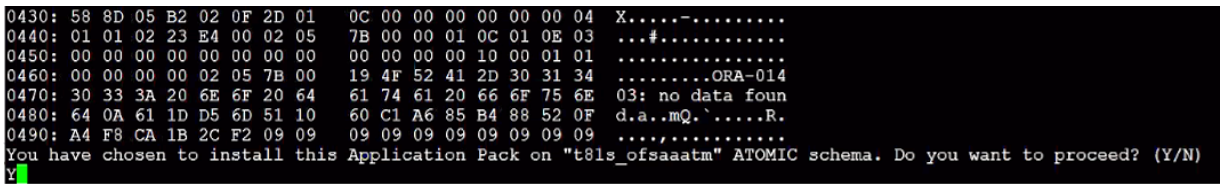
*Triggering the utility in ONLINE mode will execute the DDLS directly on the Database. Do you wish to proceed? (Y/y or N/n).*

3. Enter Y to proceed.

   The following message is displayed:

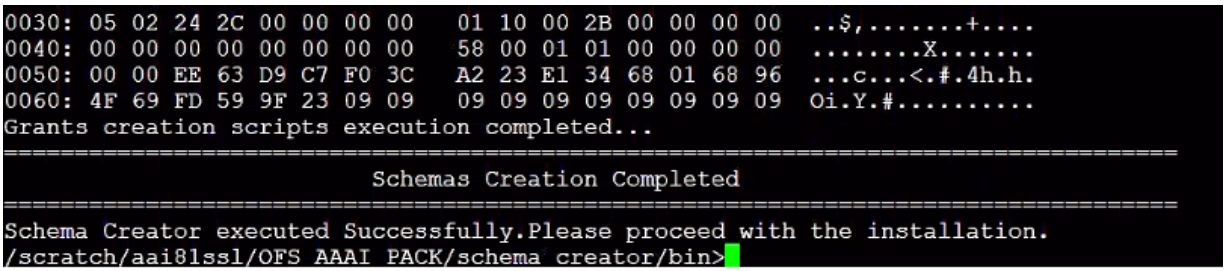
   You have chosen to install this application pack on "<ATOMIC_SCHEMA_NAME>" ATOMIC schema. Do you wish to proceed? (Y/y or N/n).

**Figure 13: Schema Creation in the TCPS Mode – Install on Atomic Schema**




4. Enter Y to proceed.
5. After Schema creation is successful, proceed to Configure the OFSAAI_InstallConfig.xml File.

**Figure 14: Schema Creation in the TCPS Mode**




The result of this task is that the `OFS_PFT_INS_SCHEMA_OUTPUT.XML` file is generated. Do not modify this file.

## 5.6.4 Execute the Schema Creator Utility while Installing Subsequent Applications Pack

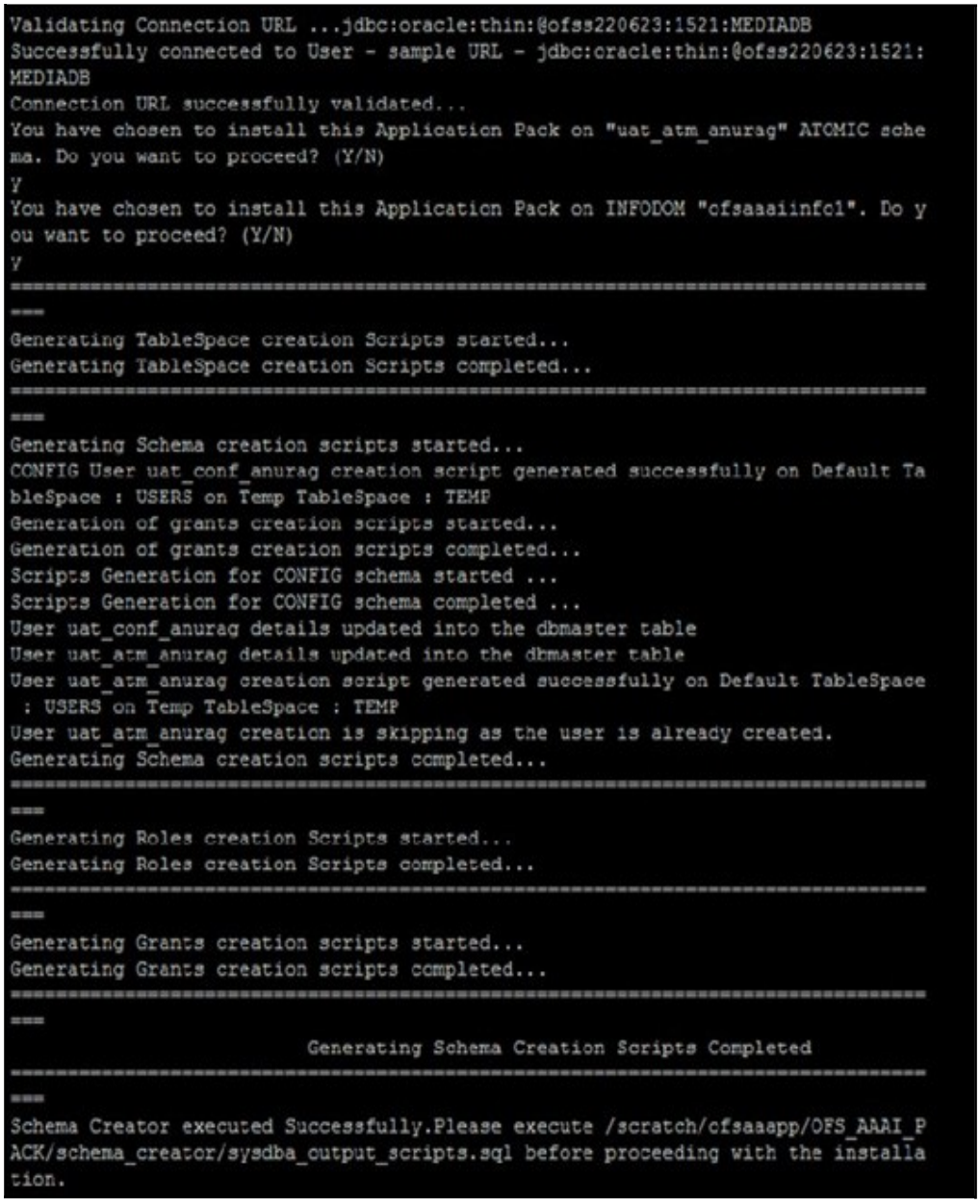
When executing the Schema Creator Utility during the installation of a subsequent application pack, you can choose to install the pack either on the same Information Domain or Atomic Schema of the existing application pack or on a new Information Domain or Atomic Schema. You can execute the Schema Creator 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 Configure 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 15: Schema Creator Utility**

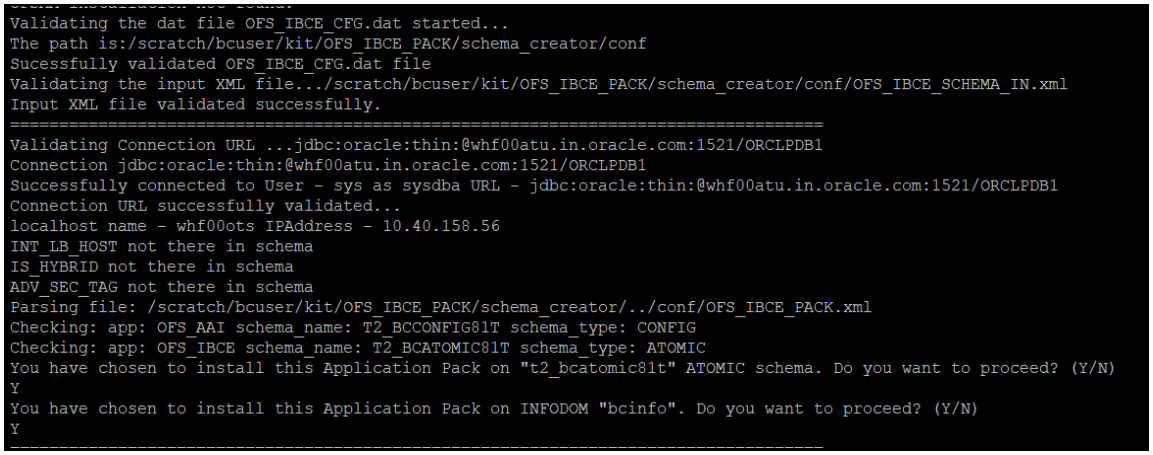



> **NOTE** You must use the same config schema user name as the previous application pack.

3. The utility identifies the application packs that are already installed on the current OFSAA setup and displays the following on the console:
   - Atomic schema of the existing application pack
   - Information Domain Name of the existing pack
   - List of installed application packs

4. Select the Atomic User on which you want to install the application pack.

**Figure 16: Select the Atomic User**




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.

## 5.7 Configure the OFSAAI_InstallConfig.xml File

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

1. Navigate to the `OFS_PFT_INS_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 8: OFSAA Infrastructure Installation Tasks and Descriptions**

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

| InteractionVariable Name | Significance and Expected Value | Mandatory |
|---|---|---|
| | **Note:** See the JDBC Jar files to identify the correct `ojdbc<version>.jar` version to be copied. | |
| **InteractionGroup name="OLAP Detail** | | |
| OLAP_SERVER_ IMPLEMENTATION | 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:<br>• YES: 1<br>• NO: 0<br>**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:<br>• ARBORPATH<br>• HYPERION_HOME<br>• ESSBASEPATH | No |
| **InteractionGroup name="SFTP Details"** | | |
| SFTP_ENABLE | Identifies if the SFTP (Secure File Transfer Protocol) feature is to be enabled. The following numeric value must be set depending on your choice:<br>• SFTP: 1<br>• FTP: 0 | Yes |
| **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.<br>Set SFTP_ENABLE to **-1** to configure ftpshare and weblocal path as a local path mounted for the OFSAAI server. | | |
| FILE_TRANSFER_PORT | 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**.<br>For example, `<InteractionVariable name="FILE_TRANSFER_ PORT">21</InteractionVariable>` | 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"**<br>**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"**<br>**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:<br>• YES: 1<br>• NO: 0<br>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 |
|---|---|---|
| | If a separate HTTP Server is not available, then the value must be Web Application Server IP/Hostname.<br>For example, `<InteractionVariable name="WEB_SERVER_ IP">10.11.12.13</InteractionVariable>`<br>or<br>`<InteractionVariable name="WEB_SERVER_ IP">myweb.server.com</InteractionVariable>` | |
| WEB_SERVER_PORT | Identifies the webserver port, which is typically 80 for non SSL and 443 for SSL. If a separate HTTP server exists, the port value must be the value configured for the webserver.<br>**Warning:** The installer will not accept the port value as:<br>• 80, if the HTTPS_ENABLE variable is 1<br>• 443, if the HTTPS_ENABLE variable is 0<br>For example, `<InteractionVariable name="WEB_ SERVER_PORT">80</InteractionVariable>` | No |
| CONTEXT_NAME | Identifies the web application context name which is used to build the URL to access the OFSAA application. You can identify the context name from the following URL format:<br>`<scheme>://<host>:<port>/<context-name>/login.jsp`<br>For example:<br>`https://myweb:443/ofsaadev/login.jsp`<br>For example, <InteractionVariable name="CONTEXT_ NAME">ofsaadev</InteractionVariable> | Yes |
| WEBAPP_CONTEXT_PATH | Identifies the absolute path of the exploded EAR file on the web application server.<br>• For Tomcat, specify the Tomcat directory path till /webapps. For example: `/oradata6/ revwb7/tomcat/webapps/`.<br>• For WebSphere, specify the WebSphere path as <WebSphere profile directory>/installedApps/<NodeCellName>. For example: `/ data2/test//WebSphere/AppServer/profiles/<Profile_Name>/installe dApps/aiximfNode01Cell`, where aix-imf is the Host name.<br>• For WebLogic, specify the WebLogic home directory path. For example: `/<WebLogic home directory path>/bea/wlserver_10.3`<br>**Note:** For WebLogic, the value specified for this attribute is ignored and the value provided against the attribute WEBLOGIC_DOMAIN_HOME is considered. | Yes |

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

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

### 5.7.1 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

## 5.8 Information about Manifest.xml File

The `Manifest.xml` file contains details of the various data models. Depending on the application that is being installed, the application's corresponding data model will be uplaoded.

## 5.9 Configure the Silent.props File

This section is applicable for a new installation of Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack Release 8.1.0.0.0. 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** In the pack-on-pack scenario, the segment code must be the same as the parameters `SEGMENT_1_CODE` of the previously installed application pack.

Do not modify these parameters if there are no other packs than Oracle Insurance Allocation Manager for Enterprise Profitability pack installed.

**Table 9: Parameters for the Silent.props File**

| Property Name | Description of Property | Permissible Values | Comments |
|---|---|---|---|
| SEGMENT_1_CODE | Segment Code | Not Applicable | Mandatory<br>**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.<br># 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.<br># That is, you have specified INSTALL_APP=1 and INFODOM_TYPE=0 |
| UPLOAD_MODEL | To perform the Model Upload. | 0: No<br>1: Yes | Mandatory |
| MODEL_TYPE | The released data model or a customized data model. | 0: Released<br>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. |

| Property Name | Description of Property | Permissible Values | Comments |
|---|---|---|---|
| ETL_APPSRC_TYPE | Create new ETL App or Src pair or use an existing one | 0 = New<br>1 = Existing | #Mandatory if this an App layer installation.<br># That is, you have specified INSTALL_APP=1.<br># 0 = If you want to create a new ETL app or src pair<br># 1 = If you want to use an existing pair |
| 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.<br>#That is, you have specified ETL_APPSRC_TYPE=0 |
| 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.<br>#That is, you have specified ETL_APPSRC_TYPE=0 |
| ETL_APP_1_NAME | ETL application name | Not Applicable | This is for the App Layer installation. |
| ETL_SRC_2_NAME | ETL Staging source name | Not Applicable | This Source must be mapped to the above ETL Application. |

## 5.10 Install the Applications 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 already exists.)
5. Execute the Schema Creator Utility

To install the Oracle Insurance Allocation Manager for Enterprise Profitability Application 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` 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.

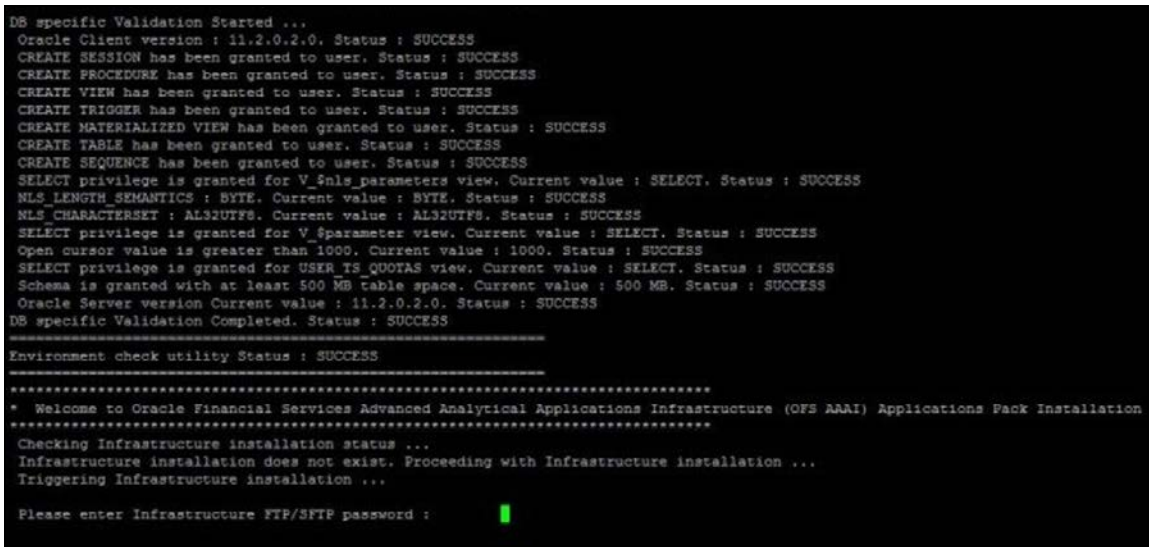
**Figure 17: Installation**

```
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_bcconfig81t. 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 18: OFSAA Processing Tier FTP/SFTP password**

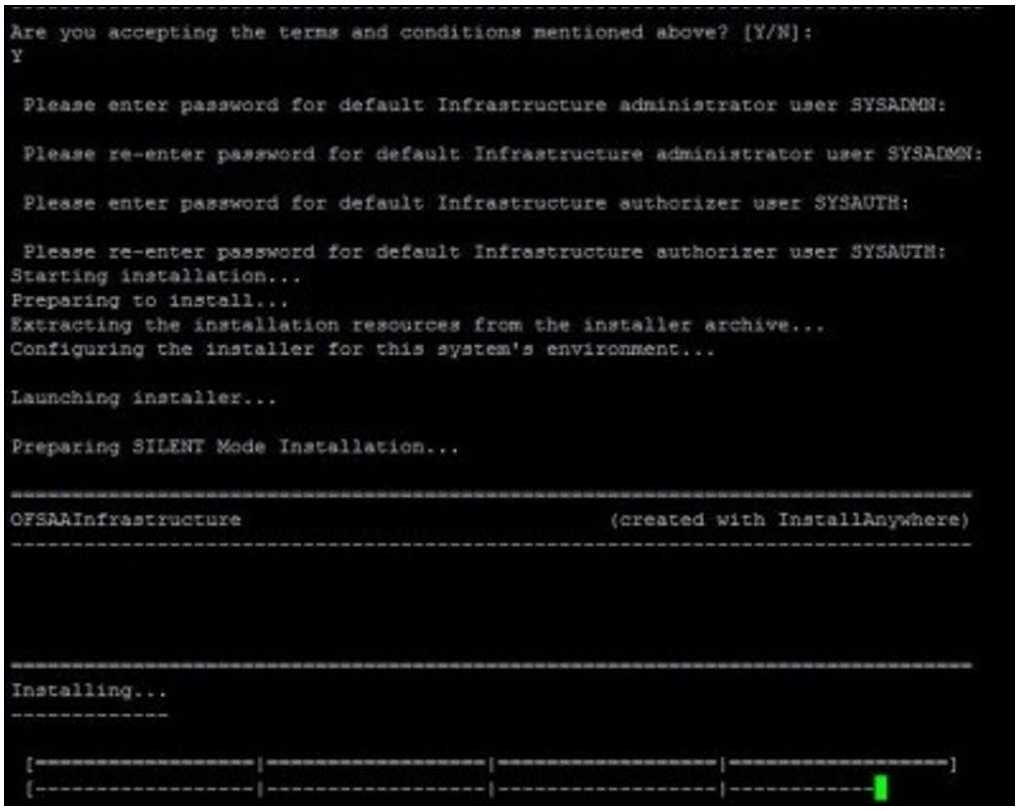



7. The process displays the OFSAA License. Enter **Y** and proceed.

**Figure 19: OFSAA License**

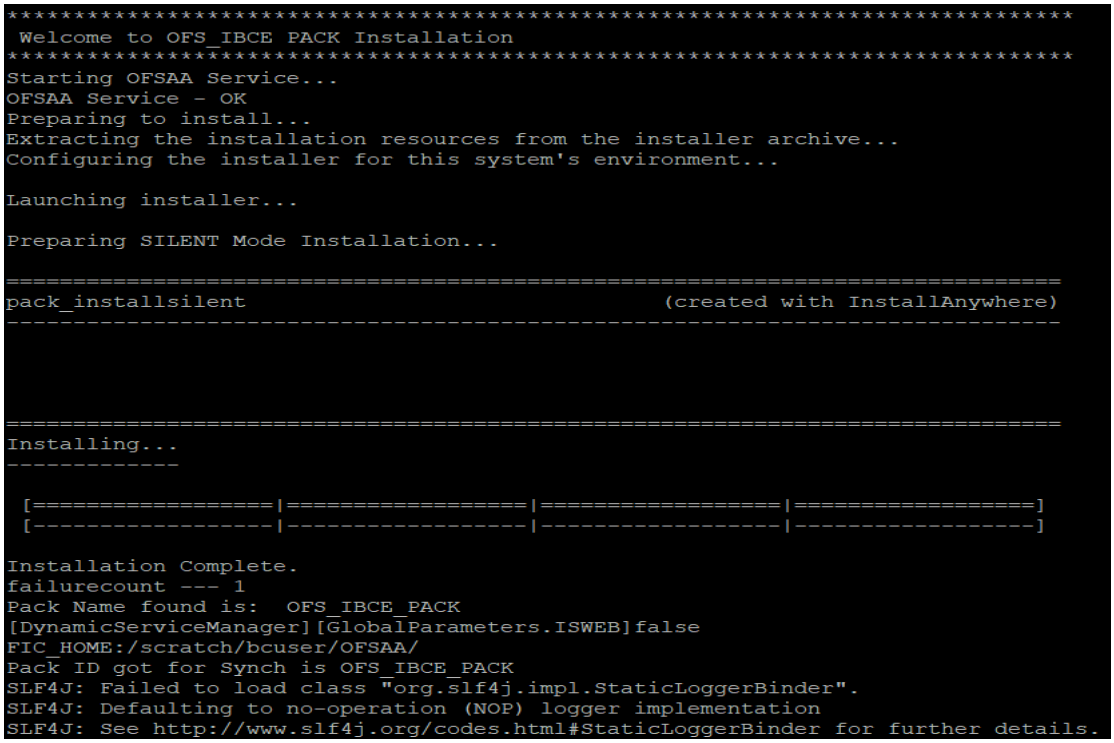
8. The installer installs the OFS AAI application.

**Figure 20: AAI Installation**




**9.** After OFS AAAI is installed, the Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack installation begins.

**Figure 21: OFS PFT Installation**




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.

# 6 Post-installation

After the successful installation of the Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack Release 8.1.0.0.0, follow the post-installation procedures mentioned in Post-installation Checklist.

**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
- Excel Upload Mapping and Template
- FTP Web Service Configuration
- Additional Configuration


## 6.1 Post-installation Checklist

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

> **NOTE** See the *Post-Installation* section in the OFS AAI Release 8.1.0.0.0 Installation and Configuration Guide to complete these procedures.

**Table 10: Post-installation Checklist**

| Sl. No. | Post-installation Activity |
|---|---|
| 1 | Verify the installation logs. |
| 2 | Patch OFSAA Infrastructure Installation. |
| 3 | Back up the `SCHEMA_CREATOR.xml`, `OFS_PFT_INS_SCHEMA_OUTPUT.xml`, and `Silent.props` files. |
| 4 | Stop the OFSAA Infrastructure services. |
| 5 | Create and deploy EAR/WAR files. |
| 6 | Start the OFSAA Infrastructure services. |
| 7 | Configure the webserver. |
| 8 | Configure the Resource Reference in web application servers. |
| 9 | Configure the Work Manager in the Web Application Servers. |

| Sl. No. | Post-installation Activity |
|---|---|
| 10 | Access the OFSAA application. |
| 11 | Configure the `excludeURLList.cfg` file |
| 12 | Change the ICC batch ownership. |
| 13 | Add TNS entries in the `tnsnames.ora` file. |
| 14 | Create Application Users. |
| 15 | Map the Application User(s) to User Groups. |
| 16 | Excel upload mapping and template. |
| 17 | Set TDE and Data Redaction in OFSAAI. |
| 18 | Implement Data Protection in OFSAA. |

## 6.2 Verify the Log File Information

See the following logs files for more information:

- `OFSAAInfrastucture_Install.log` located at `$FIC_HOME` folder for the Infrastructure installation log.
- `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 files in the `OFS_PFT_INS_PACK/OFS_PFT_INS/logs/` directory.

## 6.3 Patch OFSAA Installation Infrastructure

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

After the installation of OFSAAAI 8.1.0.0.0, apply the **31605076** one-off patch. See the **Readme** packaged with the patch for further instructions on how to install it.

See My Oracle Support for more information on the latest release.

## 6.4 Backup SCHEMA_CREATOR_IN.xml, OFS_PFT_INS_SCHEMA_OUTPUT.xml, and Silent.props Files

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

**Table 11: Directory of Files to Backup**

| File Name | Directory |
|---|---|
| OFS_PFT_INS_SCHEMA_IN.xml | OFS_PFT_INS_PACK/schema_creator/conf |
| OFS_PFT_INS_SCHEMA_OUTPUT.xml | OFS_PFT_INS_PACK/schema_creator/ |
| Silent.props | OFS_PFT_INS_PACK/appsLibConfig/conf |

## 6.5 Change the ICC Batch Ownership

All the seeded batches in the Oracle Insurance Allocation Manager for Enterprise Profitability 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.

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

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

- For Solaris Sparc and X86 systems, append the path `$FIC_DB_HOME/lib/libC++11/` to `LD_LIBRARY_PATH` variable in the `.profile` file.

  For example:

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

- For Solaris Sparc, add the Oracle Developer Studio installed path at the beginning of the `LD_LIBRARY_PATH` variable in the `.profile` file.

  For example:

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

## 6.7 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 8.1.0.0.0 Installation and Configuration Guide to complete these procedures.

**Table 12: Additional Configuration Checklist**

| Installation Stage | Sl. No. | Activity |
|---|---|---|
| Additional Configuration | 1 | Configure the Infrastructure Server Memory. |
| | 2 | Change IP/Hostname, Ports, Deployed Paths of the OFSAA Instance. |
| | 3 | Execute the OFSAAI Setup Information Fetching Tool. |
| | 4 | Execute the Encryption changer. |
| | 5 | Configure the Infrastructure LDAP Configuration. |
| | 6 | Configure and deploy the OFSAAI web services. |
| | 7 | Configure the Message details in the Forms Designer. |
| | 8 | Clear the application cache. |
| | 9 | Configure password changes. |
| | 10 | Configure Java Virtual Machine. |
| | 11 | Configure Internal Service (Document Upload/Download). |

# 7 Upgrade

**Topics:**


- Upgrade Scenarios
- Upgrade from Release 8.0.8.x.0 of Oracle Insurance Allocation Manager for Enterprise Profitability on AIX or Solaris x86 Operating System
- Prepare for Upgrade
- Upgrade from a Release Before 8.0.6.1.0
- Upgrade from a Previous Release (8.0.6.1.0 or Later)
- Upgrade an Already Installed Application Pack From 8.0.6.1.0 or Later
- Install a New Application on an Existing OFSAA Instance from the Same Pack
- Install a New Application Pack on an Existing OFSAA Instance
- Upgrade an Already Installed 8.0.6.1.0 or Later Application and Add New Applications From the Same Pack


## 7.1 Upgrade Scenario

Release 8.1.x.x.x of OFSAA supports the following upgrade scenario as explained in the following table:

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

| Scenario | Upgrade Instructions |
|---|---|
| Upgrade from Oracle Insurance Allocation Manager for Enterprise Profitability Release v8.0.8 on AIX or Solaris x86 Operating System | Release v8.1.0.0.0 of Oracle Insurance Allocation Manager for Enterprise Profitability is not certified for AIX and Solaris x86 Operating Systems. If you are currently running OFSAA v8.0.x on AIX or Solaris x86 Operating Systems and plan to upgrade to Release v8.1.0.0.0, then you must migrate from AIX or Solaris x86 to Linux or Solaris SPARC. See the MOS Doc ID 2700084.1 for details. |
| Upgrade an Already Installed Application Pack From 8.0.8.0.0 or Later<br>**Example**: You are using an application pack in release 8.0.8.1.0 and now want to upgrade it to Release 8.1.0.0.0. | 1. Run the Environment Check Utility tool and ensure that the hardware and software requirements are installed as per the Tech Stack.<br>2. Clone your existing environment to the 8.1.0.0.0 Tech Stack.<br>3. Update the Silent.props file present in the Release 8.1.0.0.0 pack.<br>4. Update the `OFS_PFT_INS_PACK.xml` file to enable ONLY the existing installed applications.<br>5. Trigger the installation. |

## 7.2 Upgrade from Release 8.0.8.x.0 of Oracle Insurance Allocation Manager for Enterprise Profitability on AIX or Solaris x86 Operating System

Release v8.1.0.0.0 of Oracle Insurance Allocation Manager for Enterprise Profitability is not certified for AIX and Solaris x86 Operating Systems. If you are currently running OFSAA v8.0.x on AIX or Solaris x86 Operating Systems and plan to upgrade to Release v8.1.0.0.0, then you must migrate from AIX or Solaris x86 to Linux or Solaris SPARC. See the MOS Doc ID 2700084.1 for details.

## 7.3 Prepare for Upgrade

Before you plan to install/upgrade any of your application packs to Release 8.1.0.0.0, ensure that all the application packs in your current OFSAA instance are available in the Release 8.1.0.0.0 version. Contact My Oracle Support for more information about the release version details.

1. Back up the OFSAA schemas from the Oracle Database server.
2. Backup the following environment files from the `OFS_PFT_INS_PACK>/schema_creator/conf` directory:
   - `OFS_PFT_INS_PACK.xml`
   - `OFS_PFT_INS_SCHEMA_IN.xml`
   - `OFSAAI_InstallConfig.xml`
3. See the Tech Matrix for the hardware and software required to upgrade to OFS AAAI Release 8.1.0.0.0.
4. Enable unlimited cryptographic policy for Java. For more information, see the *Enabling Unlimited Cryptographic Policy* section in the OFS Analytical Applications Infrastructure Administration Guide.
5. 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;
/
--------------------------------------------------------------------
```

## 7.4 Upgrade an Already Installed Application Pack From 8.0.8.1.0 or Later

You are upgrading the application pack from Release 8.0.8.0.0 or later to Release 8.1.0.0.0.

Example: You are on release 8.0.8.0.0 and now want to upgrade to Release 8.1.0.0.0.

### 7.4.1 Clone Your Existing Environment

Clone your existing environment to the 8.1.0.0.0 Tech Stack. For more information, see the OFSAA Cloning Reference Guide for:

- Release 8.0.x
- Release 8.1.x

### 7.4.2 Download the Mandatory OFS AAI Patch

Download the OFS AAI one-off patch **31509494**. This is a mandatory patch for the Solaris Operating System. See the Readme packaged with the patch for further instructions on how to install the patch.

### 7.4.3 Update the Silent.props File in Release 8.1.0.0.0 Pack

Update the Silent.props file present in the Release 8.1.0.0.0 pack.

Most parameters in the Silent.props file for 8.1.0.0.0 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 13: 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<br>1: Yes | Mandatory |

| | | | |
|---|---|---|---|
| MODEL_TYPE | The released data model or a customized data model. | 0: Released<br>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. |

**NOTE** Do not modify any other parameter in the `silent.props` file other than those mentioned in the previous table in case of an upgrade.

### 7.4.4 Update the OFS_PFT_INS_PACK.xml File

Update the `OFS_PFT_INS_PACK.xml` file. Enable only the existing installed applications.

The `OFS_PACK_INS_PACK.xml` file contains details of the various products that are packaged together in the Oracle Insurance Allocation Manager for Enterprise Profitability application pack.

This section provides information about the various tags/ parameters available in the file and the values that you must update. Prior to installing the Oracle Insurance Allocation Manager for Enterprise Profitability applications pack, it is mandatory to update this file.

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

1. Navigate to the `OFS_PFT_INS_PACK/conf` directory.
2. Open the `OFS_PFT_INS_PACK.xml` file in a text editor.
3. Configure the `OFS_PFT_INS_PACK.xml` file as mentioned in the following table.

**Figure 22: Sample OFS_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>8.1.0.0.0</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>8.1.0.0.0</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>8.1.0.0.0</VERSION>
    </APP>
</APP_PACK_CONFIG>
```

**Table 14: OFS_PFT_INS_PACK.xml File Parameters**

| Tag Name | Attribute Name | Value you must enter | Comments |
|---|---|---|---|
| APP_ID | ENABLE | YES, for existing applications that you want to upgrade. | Set this attribute-value to YES for every APP_ID which you want to install or upgrade. |

### 7.4.5 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.

**Figure 23: Installation**

```
/scratch/test81/OFS_AAAI_PACK/bin>./setup.sh SILENT
Current OS Type ----  SunOS
 FIC_HOME : /scratch/test81/OFSAAI_81FULL
Environment check utility started...
============================================================
Java Validation Started ...
 Java found in : /scratch/oraofss/jdk1.8.0_202/bin
JCE IS true
 JAVA Version found : 1.8.0_202
 JAVA Bit Version found : 64-bit
Java Validation Completed. Status : SUCCESS
============================================================
Environment Variables Validation Started ...
 ORACLE_HOME : /scratch/oraofss/app/product/18.3.0/client_1
 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_ofsaaatm. 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
```

3. Enter the OFSAA Processing Tier FTP/SFTP password value and proceed, when prompted.

**Figure 24: 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_ofsaaatm. 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 OFSAA License is displayed. Enter **Y** and proceed.

**Figure 25: Accept the OFSAA License Agreement**

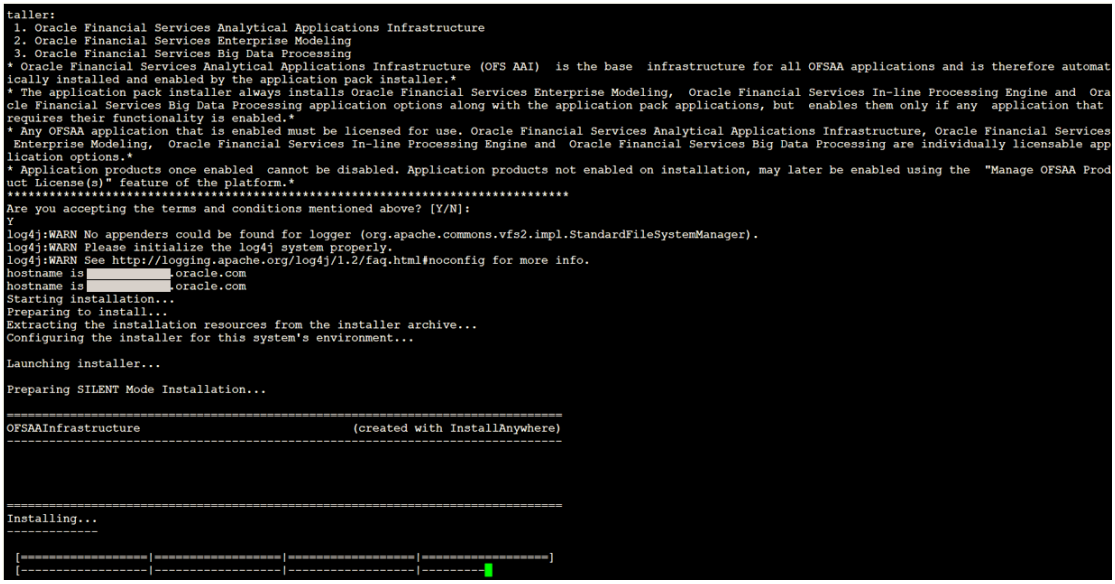
```
 Triggering Infrastructure installation ...

 Please enter Infrastructure 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 [redacted]oracle.com
hostname is [redacted]oracle.com
find: insufficient number of arguments
find: [-H | -L] path-list predicate-list
current dir is /scratch/test81/OFS_AAAI_PACK/bin

********************************************************************************
 OFSAA APPLICATION PACK LICENSE AGREEMENT
********************************************************************************
* Oracle Financial Services Analytical Applications (OFSAA) application packs are groups of OFSAA products packaged together into a single installer. Each ap
plication pack contains  OFSAA applications that address specific functional domains.*
* Every application pack also includes the following OFSAA infrastructure application options which are automatically installed by every application pack ins
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 automat
ically 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  Ora
cle 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 app
lication options.*
* Application products once enabled  cannot be disabled. Application products not enabled on installation, may later be enabled using the  "Manage OFSAA Prod
uct 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...
```

5. The OFS AAAI installation begins.

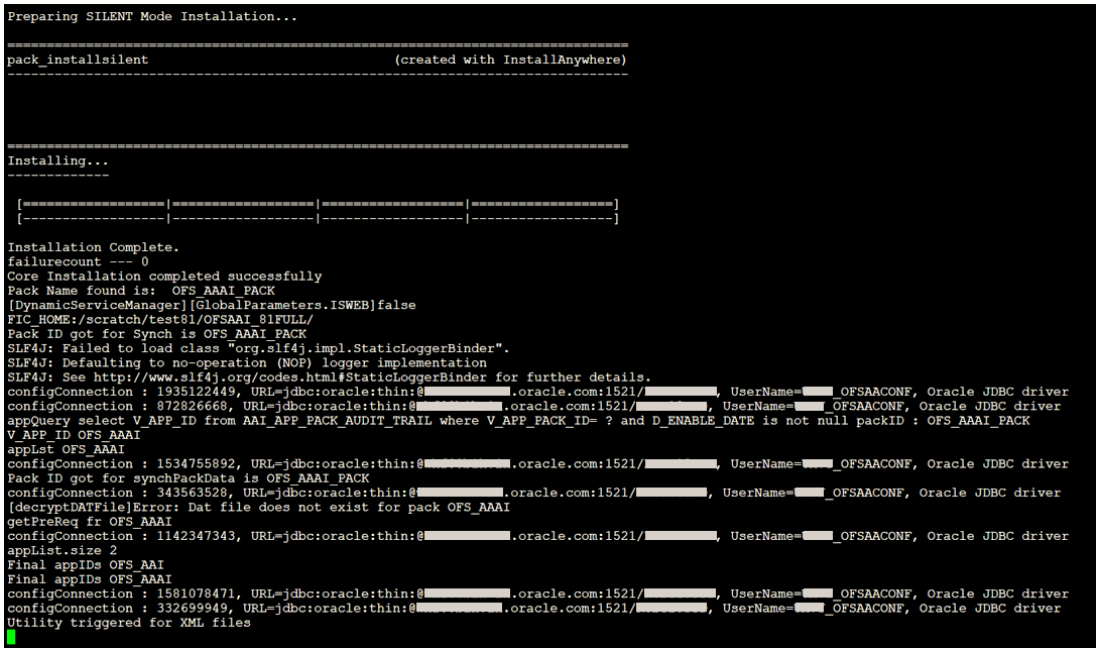
**Figure 26: OFS AAAI Installation**




Data Model Upload may take several hours to complete.

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

**Figure 27: Installation In Progress**




Congratulations! Your installation is complete.

## 7.4.6 Verify the Log File Information

See the following logs files for more information:

- `OFSAAInfrastucture_Install.log` located at `$FIC_HOME` folder for the Infrastructure installation log.
- `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 files in the `OFS_PFT_INS_PACK/OFS_PFT_INS/logs/` directory.

### 7.4.7 Post Upgrade Steps

Follow the steps mentioned in the Post Upgrade Steps section.

## 7.5 Install a New Application 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 8.1.0.0.0.

### 7.5.1 Execute the Schema Creator Utility Only for the New Pack

1. To execute the schema creator, follow these steps:

> **NOTE** While defining the schema details for the applications, provide exactly the same schema details given in the previous installation. The output file (`OFS_PFT_INS_SCHEMA_OUTPUT.xml`) is generated as a result of the schema creation process.

   a. Edit the file: `OFS_PFT_INS_PACK/schema_creator/conf/OFS_PFT_INS_SCHEMA_IN.xml` in a text editor. See Configure the OFS_PFT_INS_SCHEMA_IN.xml File for values to modify in the .XML file.

   a. Execute the utility.

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

2. Follow the steps given in the section Configure the OFS_PFT_IN_SCHEMA_IN.xml File. Configure `OFSAAI_InstallConfig.xml` File is not required.

### 7.5.2 Update the OFS_PFT_INS_PACK.xml File for the Newly Licensed Pack

The `OFS_PFT_INS_PACK.xml` file holds details on the various products that are packaged in Oracle Insurance Allocation Manager for Enterprise Profitability application pack.

This section provides information about the various tags/ parameters available in the file and the values that you must update. Before installing the Oracle Insurance Allocation Manager for Enterprise Profitability pack, it is mandatory to update this file.

To configure the OFS_PFT_INS_PACK.xml file, follow these steps:

1. Navigate to the OFS_PFT_INS_PACK/conf directory.
2. Open the OFS_PFT_INS_PACK.xml file in a text editor.
3. Configure the OFS_PFT_INS_PACK.xml file as mentioned in the following table.

**Figure 28: Sample OFS_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>8.1.0.0.0</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>8.1.0.0.0</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>8.1.0.0.0</VERSION>
    </APP>
</APP_PACK_CONFIG>
```

**Table 15: OFS_PFT_INS_PACK.xml File Parameters**

| Tag Name | Attribute Name | Value you must enter | Comments |
|---|---|---|---|
| APP_ID | ENABLE | • YES, for applications you want to install.<br>For example: OFS_ALM in the preceding illustration.<br>• NO, for applications that are already installed. | Set this attribute-value to YES for every APP_ID which you want to install or upgrade. |

## 7.5.3 Update the Silent.props File of the Newly Licensed Pack

Most parameters in the Silent.props file for 8.1.0.0.0 have default values. Before triggering the installation, ensure that you review them thoroughly and update as required.

Update the Silent.props file in the Release 8.1.x pack ONLY for the newly licensed applications.

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

**Table 16: Parameters for the Silent.props File**

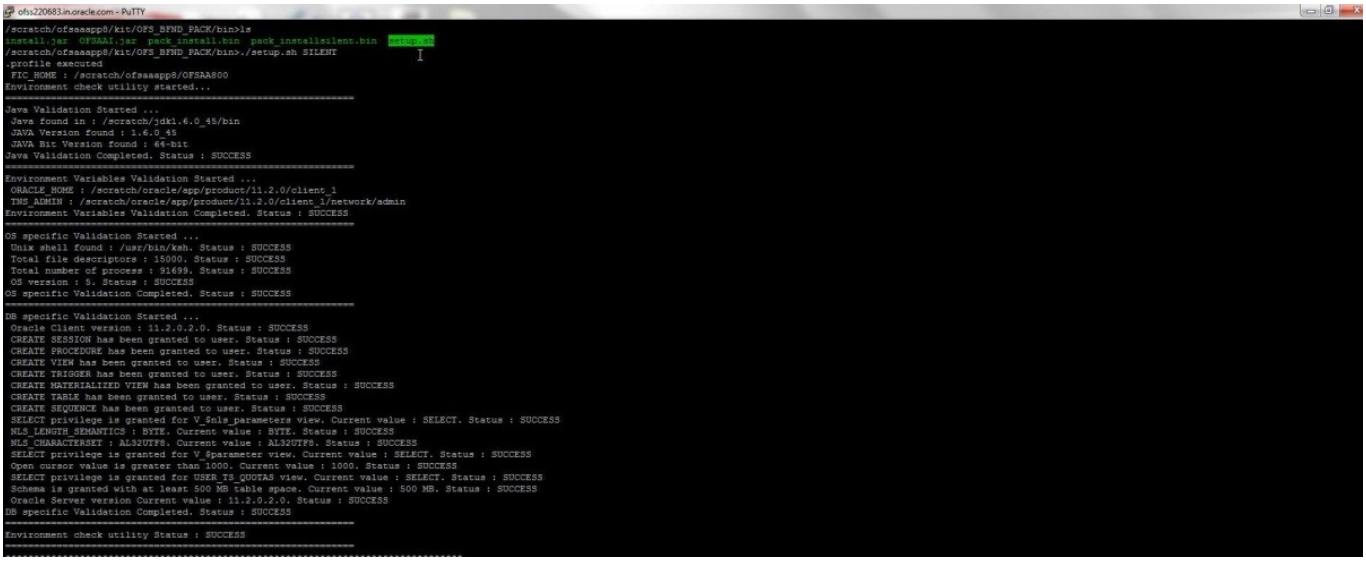
| Property Name | Description of Property | Permissible Values | Comments |
|---|---|---|---|

| | | | |
|---|---|---|---|
| UPLOAD_MODEL | Whether you want to perform the Model Upload. | 0: No<br>1: Yes | Mandatory |
| MODEL_TYPE | The released data model or a customized data model. | 0: Released<br>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. |

### 7.5.4 Trigger the Installation

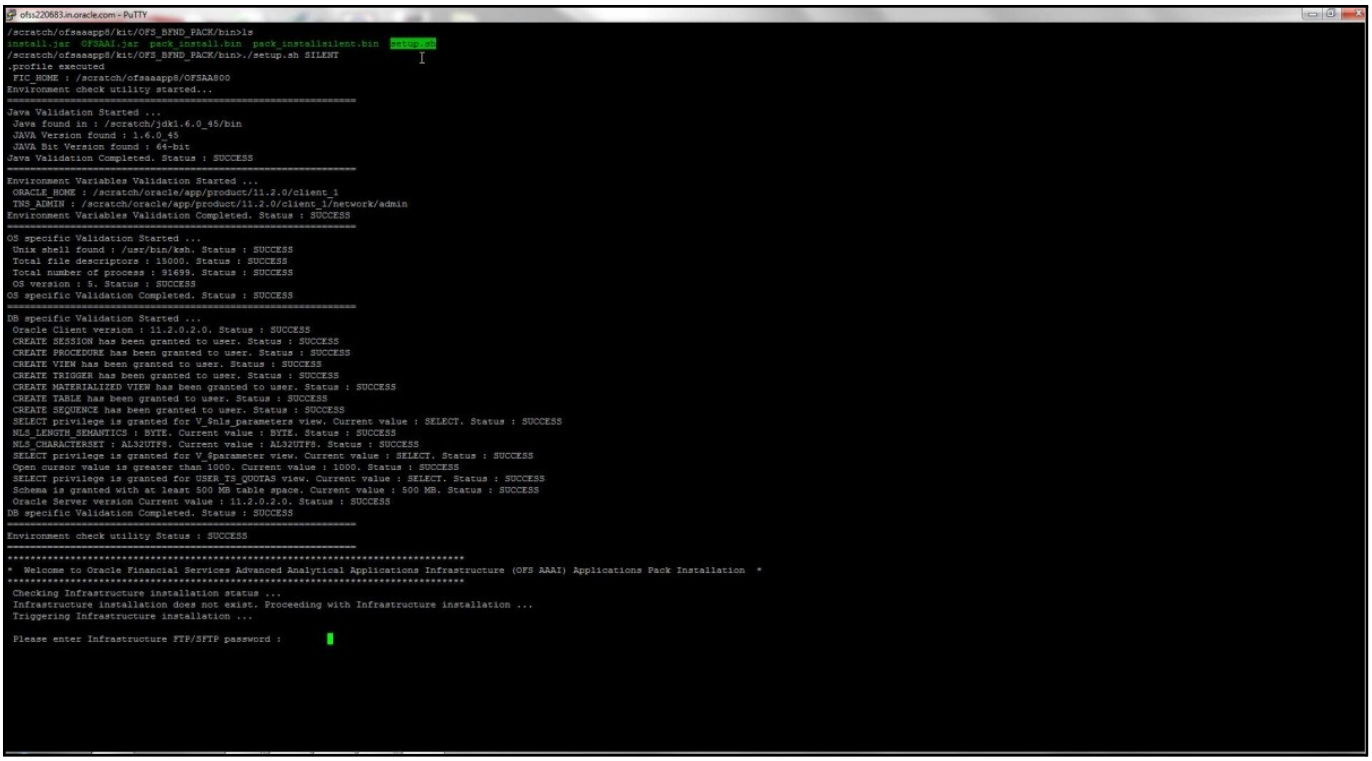
1. Log in to OFSAA Infrastructure Config Schema and execute the following SQL query:
   `ALTER TABLE CONFIGURATION MODIFY PARAMNAME VARCHAR2 (100 CHAR);`
2. Enter the following command in the console to execute the application pack installer.
   `./setup.sh SILENT`
3. The installer proceeds with the pre-installation checks.

**Figure 29: Installation**




4. Enter the OFSAA Processing Tier FTP/SFTP password value and proceed, when prompted.

**Figure 30: OFSAA Processing Tier FTP/SFTP password**

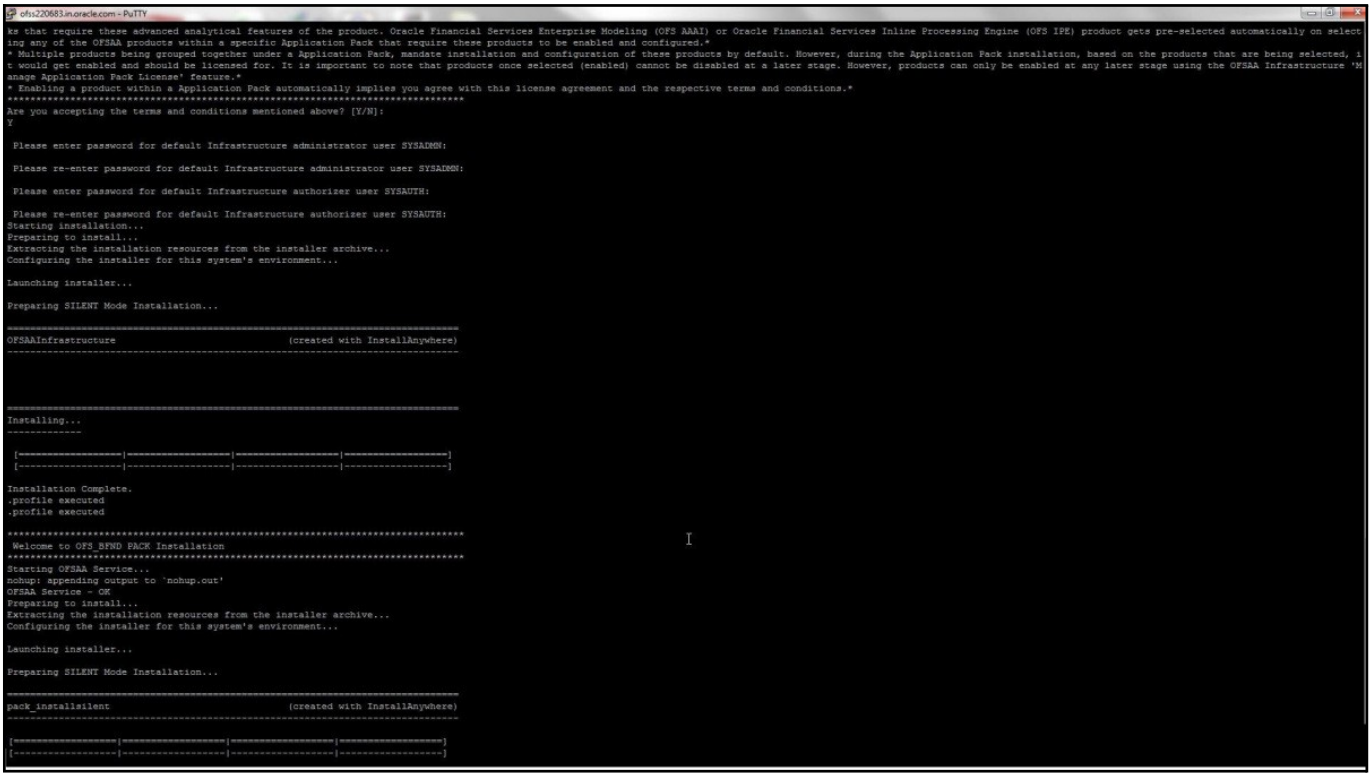



5. The OFSAA License is displayed. Enter **Y** and proceed.

**Figure 31: OFSAA License**

6. The OFS PFT Applications Pack installation begins.

**Figure 32: OFS PFT INS Applications Pack Installation**




Data Model Upload may take several hours to complete.

7. Do not close the console until the installation is complete.

**Figure 33: Installation In Progress**

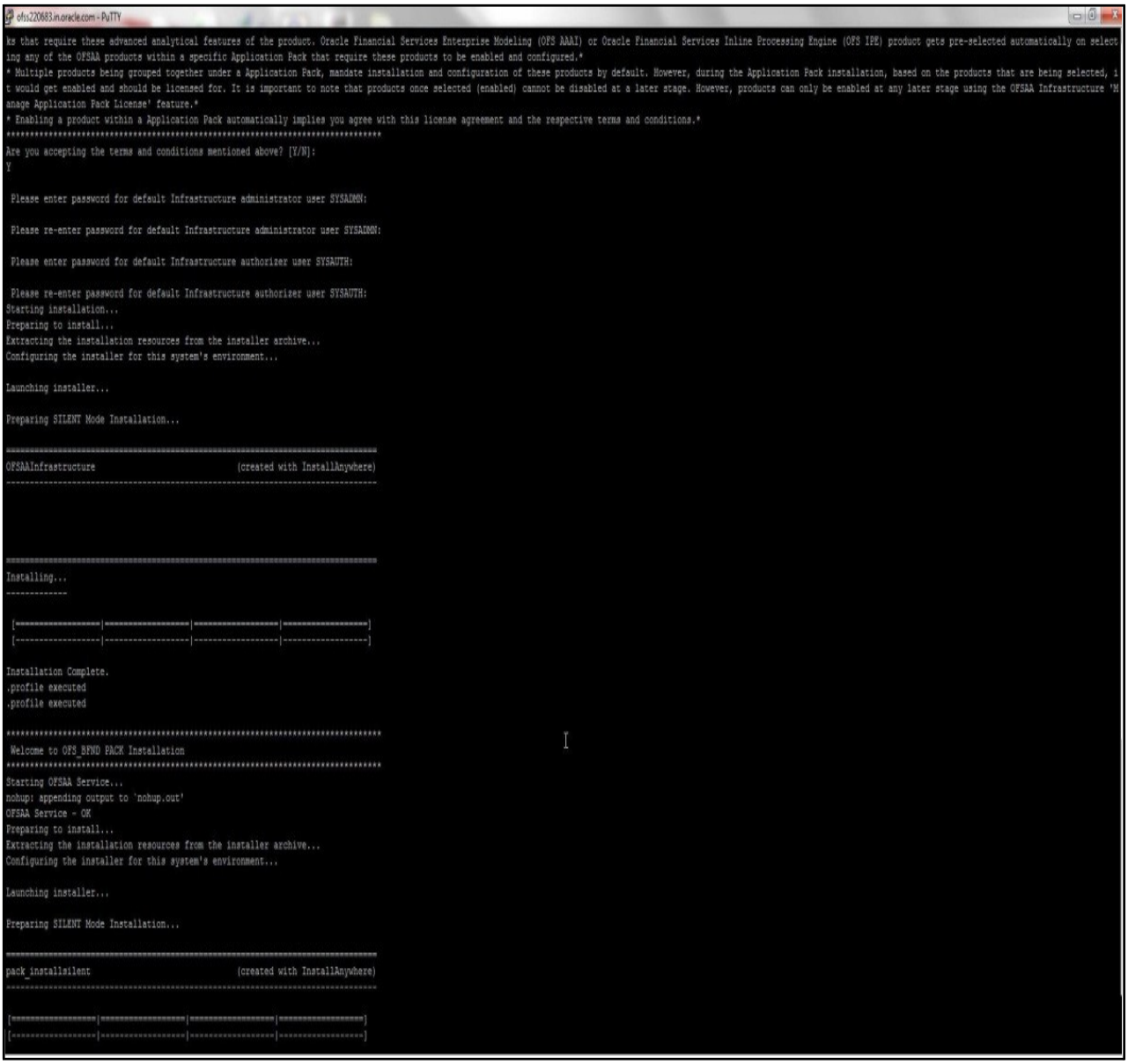



**Figure 34: Installation Complete**

```
We are now in /scratch/ofsaaapp8 ...
**************************************************
.profile executed
.profile executed
Executing "ant"
Buildfile: /scratch/ofsaaapp8/OFSAA800/ficweb/build.xml
Trying to override old definition of datatype resources

existtest:
     [echo] Checking for file /scratch/ofsaaapp8/OFSAA800/ficweb/OFSAAI800.war existense

createwar:
     [echo] Creating /scratch/ofsaaapp8/OFSAA800/ficweb/OFSAAI800.war freshly..
      [war] Building war: /scratch/ofsaaapp8/OFSAA800/ficweb/OFSAAI800.war

BUILD SUCCESSFUL
Total time: 1 minute 13 seconds
OFSAA App Layer Services start-up check started...
Starting startofsaai.sh service...
nohup: appending output to `nohup.out'
OFSAA Service - OK
Starting icc service...
nohup: appending output to `nohup.out'
ICC service - OK
Shutting down icc service...
nohup: appending output to `nohup.out'
Shutting down OFSAA service...
nohup: appending output to `nohup.out'
OFSAAI App Layer Services check Status: SUCCESSFUL.
OFSAAI DB Layer Services check started...
checking Router service...
Router Service - OK
checking AM service...
AM Service - OK
Checking MessageServer service...
DEBUG: main started.
DEBUG: TraceFileName = /scratch/ofsaaapp8/OFSAA800/ficdb/log/msg_trace_file.log
DEBUG: OpenFiles done.
MessageServer Service - OK
OFSAAI DB Layer File Services check Status: SUCCESSFUL.
**************************************************
Installation completed...
**************************************************
/scratch/ofsaaapp8/kit/OFS_BFND_PACK/bin>
```

Congratulations! Your installation is complete.

## 7.5.5 Verify the Log File Information

See the following logs files for more information:

- `OFSAAInfrastucture_Install.log` located at `$FIC_HOME` folder for the Infrastructure installation log.
- `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 files in the `OFS_PFT_INS_PACK/OFS_PFT_INS/logs/` directory.

**NOTE** On applying the Oracle Insurance Allocation Manager Release 8.1 on top of IFRS-17 Release 8.1, the installation log reports the following error:

'Object already exists' while creating the following tables:

- FSI_MIG_OBJ_MASTER
- FSI_MIG_OBJ_DETAILS
- FSI_MIG_OBJ_DEPENDENCIES
- FSI_MIG_DEPRICATED_COLUMNS

You can ignore the error.

### 7.5.6 Post Upgrade Steps

Follow the steps mentioned in the Post Upgrade Steps section.

## 7.6 Post Upgrade Steps

Perform the following steps after completing the upgrade:

- Remove ContextDocLoader from the web.xml File
- Verify FSI_DB_INFO Entries

### 7.6.1 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.

### 7.6.2 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 Additional Configuration for Application Packs

This section provides information for additional configurations required for the OFSAA application packs.

**Table 17: Additional Configuration Checklist**

| Sl. No. | Additional Configuration Activity |
|---|---|
| 1 | Add FTP/SFTP Configuration for File Transfer. |
| 2 | Configure the Infrastructure Server Memory. |
| 3 | Retrieve the Patch Information |
| 4 | Change IP or Hostname, Ports, Deployed Paths of the OFSAA Instance. |
| 5 | Execute the OFSAAI Setup Information Fetching Tool. |
| 6 | Execute the Encryption changer. |
| 7 | Configure the Infrastructure LDAP Configuration. |
| 8 | Configure and deploy the OFSAAI web services. |
| 9 | Enable Parallel Execution of DML statements. |
| 10 | Configure the Message details in the Forms Designer. |
| 11 | Clear the application cache. |
| 12 | Configure password changes. |
| 13 | Configure Java Virtual Machine. |
| 14 | Configure Internal Service (Document Upload/Download). |

# 9 Migrate Excel Upload Functionality

See the Migrate Excel Upload Functionality section in the OFS AAI Release 8.1.0.0.0 Installation and Configuration Guide to complete the procedures.

# 10 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 AAAI Release 8.1.0.0.0 Installation and Configuration Guide.

# OFSAA Support

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

# Send Us Your Comments

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

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

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