

Oracle Financial Services Profitability Applications Pack

Installation and Configuration Guide

Release 8.1.0.0.0

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Financial Services

OFS PFT Applications Pack 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 OFS PFT Applications 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 OFS PFT Applications Pack Installer and Extract the Software sections.
1.1	09-July-2020	Added information for the one-off patch 31509494 for Solaris in the Download the Mandatory OFS AAI Patch section.
1.0	24-Jun-2020	Created the document with instructions for the installation of the OFS Profitability Applications Pack Release 8.1.0.0.0.

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1 Preface

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

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

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

Topics:

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

1.1 Intended Audience

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

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

- OFS Profitability 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](#)
- [RPD/ Catalog Deployment and D3 For OAS](#)

- [Migrate Excel Upload Functionality](#)
- [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 Financial Services Profitability Applications Pack (OFS PFT Pack) Release 8.1.0.0.0:

- [Oracle Financial Services Funds Transfer Pricing User Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Profitability Management User Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Enterprise Financial Performance Analytics User Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Institutional Performance Analytics User Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Retail Performance Analytics User Guide Release 8.1.0.0.0](#)

Oracle Financial Services Profitability Applications Pack Security Guides:

- [Oracle Financial Services Funds Transfer Pricing Security Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Profitability Management Security Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Enterprise Financial Performance Analytics Security Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Institutional Performance Analytics Security Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Retail Performance Analytics Security Guide Release 8.1.0.0.0](#)

Oracle Financial Services Profitability Applications Pack Cloning Guides:

- [Oracle Financial Services Profitability Management Application Cloning Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Funds Transfer Pricing Cloning Reference Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Enterprise Financial Performance Analytics Cloning Reference Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Institutional Performance Analytics Cloning Reference Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Retail Performance Analytics Cloning Reference Guide Release 8.1.0.0.0](#)

[OHC Documentation Library](#) for the OFS AAI Application Pack Release 8.1.0.0.0 product documents:

- [Oracle Financial Services Advanced Analytical Applications Infrastructure Installation and Configuration Guide Release 8.1.0.0.0](#)
- [Oracle Financial Services Advanced Analytical Applications Infrastructure User Guide Release 8.1.0.0.0](#)

- [Oracle Financial Services Advanced Analytical Applications Infrastructure Environment Check Utility Guide Release 8.1.x](#)
- [Oracle Financial Services Advanced Analytical Applications Infrastructure Administration and Configuration Guide Release 8.1.x](#)
- [Oracle Financial Services Analytical Applications Infrastructure Process Modelling Framework Orchestration Guide Release 8.1.0.0](#)
- [Oracle Financial Services Analytical Applications \(OFSAA\) Metadata Browser User Guide Release 8.1.0.0](#)
- [OHC Documentation Library](#) for the OFSAA Release 8.1.x generic documents:
 - [Oracle Financial Services Analytical Applications Infrastructure Security Guide Release 8.1.x](#)
 - [Oracle Financial Services Analytical Applications Infrastructure Cloning Reference Guide Release 8.1.x](#)
 - [Oracle Financial Services Analytical Applications \(OFSAA\) Licensing Information User Manual Release 8.1.0.0](#)

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

- [OFS Analytical Applications 8.1.0.0.0 Technology Matrix](#)
- [OFS Data Model Utilities Guide](#)
- [OFS Cash Flow Engine Reference Guide](#)

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.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, file names, text that appears on the screen, or text that you enter.
Hyperlink	Hyperlink type indicates the links to external websites and internal document links.

1.5 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
OFSA	Oracle Financial Services Analytical Applications
OFSAI	Oracle Financial Services Analytical Application Infrastructure
OFSAAI	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

Abbreviation	Meaning
OS	Operating System
RAM	Random Access Memory
RDBMS	Relational Database Management System
RHEL	Red Hat Enterprise Linux
SFTP	Secure File Transfer Protocol
SID	System Identifier
SSL	Secure Sockets Layer
TNS	Transparent Network Substrate
URL	Uniform Resource Locator
VM	Virtual Machine
WAR	Web Archive
XML	Extensible Markup Language

2 About Oracle Financial Services Analytical Applications (OFSAA)

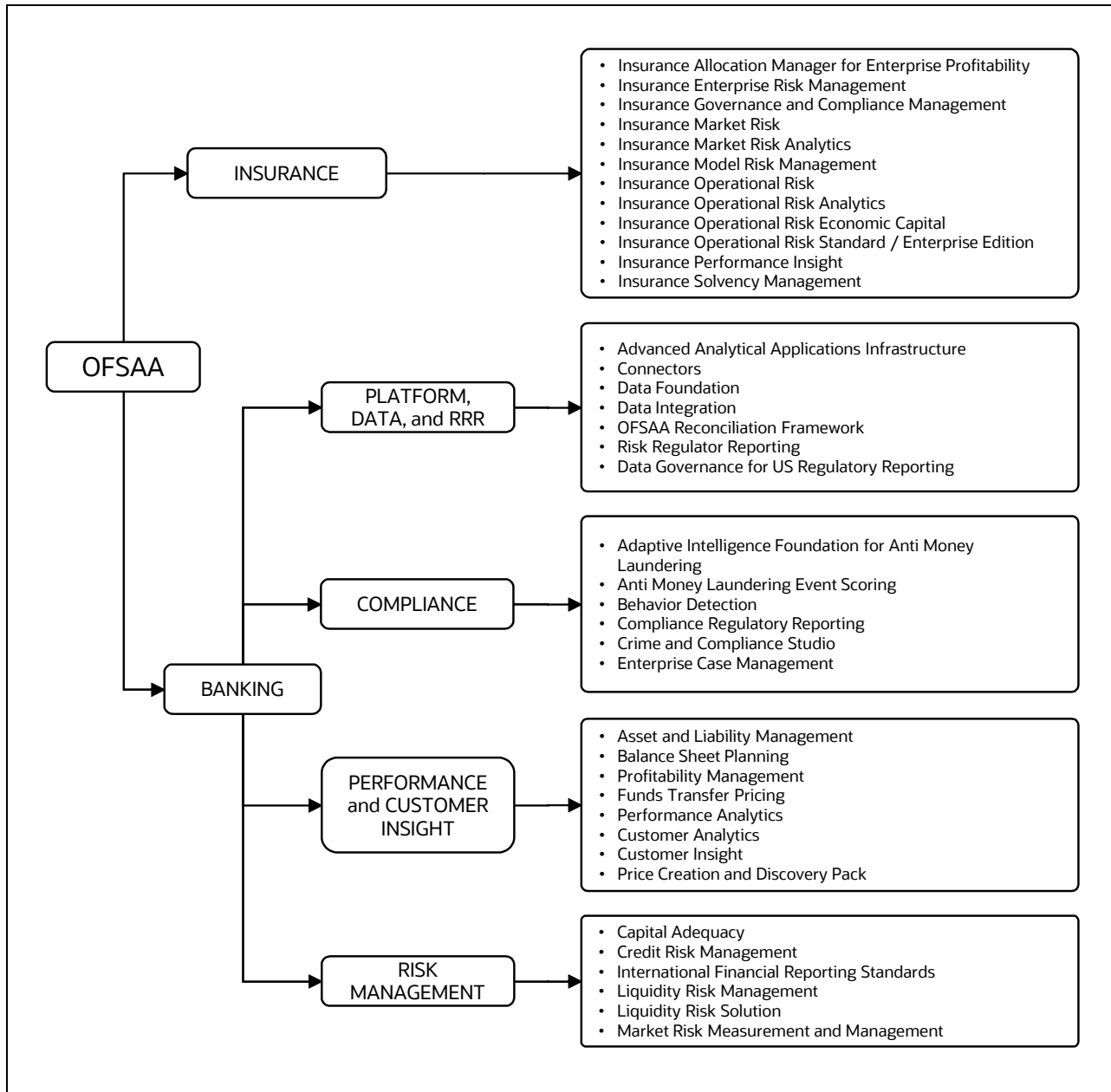
In today's turbulent markets, financial institutions require a better understanding of their risk-return, while strengthening competitive advantage and enhancing long-term customer value. Oracle Financial Services Analytical Applications (OFSAA) enable financial institutions to measure and meet risk-adjusted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

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

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

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

Figure 1: OFSAA Application Packs



Topics:

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

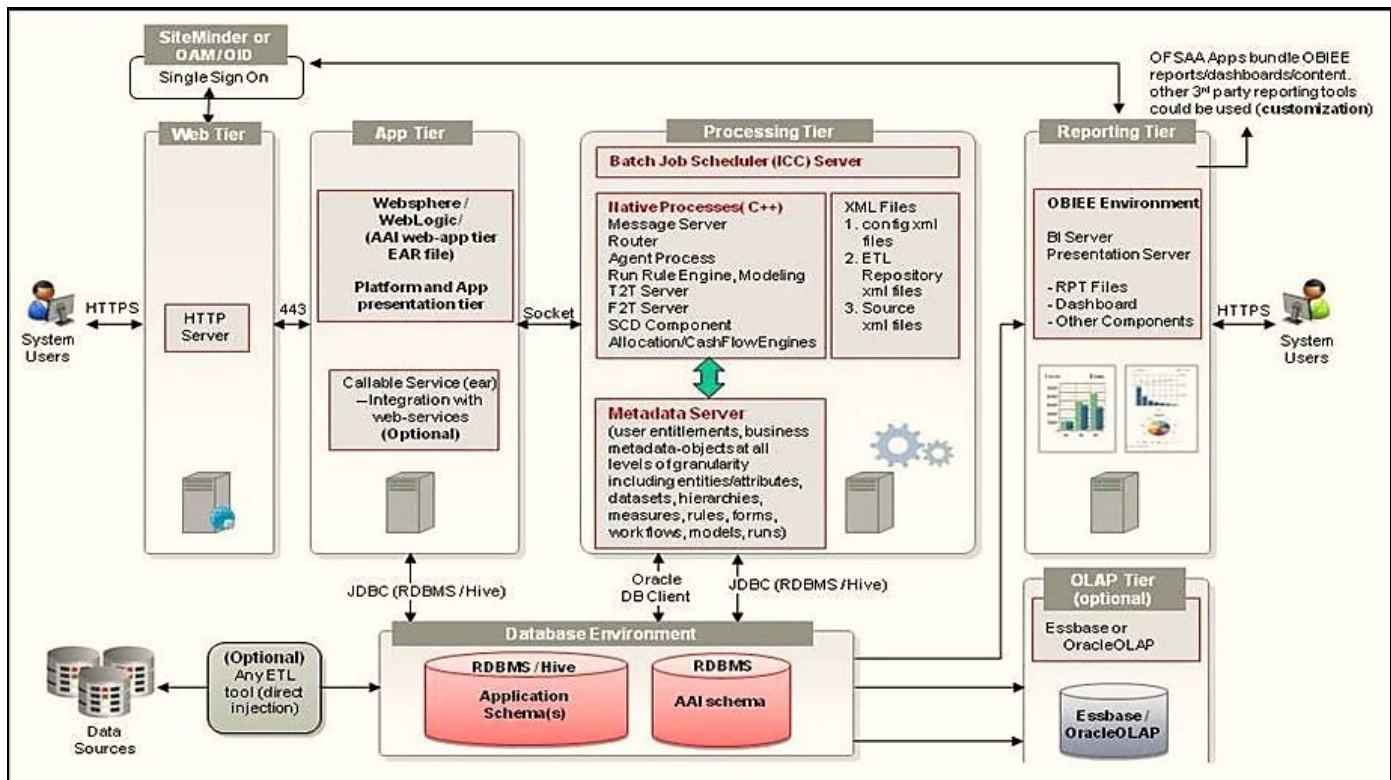
2.1.1 Components of OFSAA Infrastructure

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

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

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

Figure 2: Components of OFSAAI



2.1.2 OFSAA Infrastructure High Availability

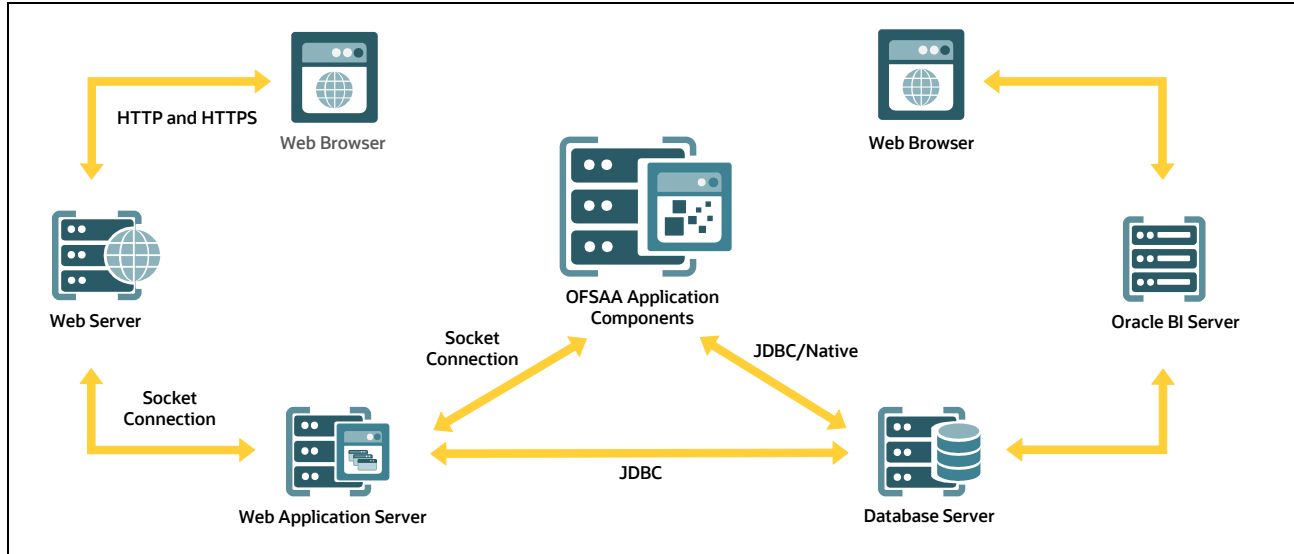
The current release of the OFSAA Infrastructure supports only the "Single Instance" installation for the Infrastructure components. However, the High Availability (HA) for the Database Server and/ or the Web application server clustering and deployment is supported in this release.

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

2.1.3 Deployment Topology

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

Figure 3: Logical Architecture Implemented for OFSAA Application Packs



2.2 OFS Profitability Applications Pack

OFS Profitability Applications Pack (OFS PFT Pack) provides integrated stress testing and modeling capabilities that you can readily apply across multiple risk areas enabling institutions to devise appropriate enterprise-wide and holistic risk and economic capital strategies.

OFS PFT Pack enables you to comply with regulatory requirements on stress testing, enables advanced customer and portfolio analytics, utilize multiple industry-standard techniques, test and model with complete data integrity.

OFS PFT Pack includes the following applications:

- Financial Services Analytical Applications Infrastructure:** This application powers the Oracle Financial Services Analytical Applications family of products to perform the processing, categorizing, selection, and manipulation of data and information required to analyze, understand and report on specific performance, risk, compliance, and customer insight issues by providing a strong foundation for the entire family of Oracle Financial Services Analytical Applications across the domains of Risk, Performance, Compliance and Customer Insight.
- Oracle Financial Services Funds Transfer Pricing Management:** This application enables the bank to apply various transfer pricing methods on products to calculate funds transfer price. It calculates transfer price across all product types varying in terms of characteristics like fixed-rate or floating rate instruments, bullet or amortizing, or fixed tenor or perpetual instruments. In addition, it also supports the calculation of transfer price at the account level or ledger level including migration of charge or credit to the ledger if required.
- Oracle Financial Services Profitability Management:** This application helps Banks and Financial services institutions manage and monitor interest rate risk, liquidity risk, foreign currency risk, and earnings risk. The application models every loan, deposit, investment

portfolio individually to help institutions better understand the risks they have assumed and their sensitivity to economic conditions.

- **Oracle Financial Services Enterprise Financial Performance Analytics:** This application is based upon a dedicated reporting mart built on the new Financial Services Data Model. OFSEFPA leverages several components of OBIEE technology including Dashboards and Answers. It includes various Dashboards and Reports for the user to carry out various Profitability Management based analytics.
- **Oracle Financial Services Institutional Performance Analytics:** This application provides strategic insights on the Profitability of the business and the underlying customers, Product holdings and Relationship depth across the organization, Behavioral and Engagement trends of its target segments exposures, commitments, line utilization, assets/liabilities, deposits, withdrawals, Fees, Income, recent transactions and so on, Efficiency of investments (like marketing, partner development), Efficiency of the sales force in terms of ongoing customer revenue generation, cross-sell and up-sell, product usage and pipeline.
- **Oracle Financial Services Retail Performance Analytics:** It focuses on the Summary performance of the LOBs and overall profitability, Portfolio mix, LOB specific profitability reports to be analyzed against key dimensions like customer segments, product family, region, branch, risk scores, and so on, Product holdings and Relationship depth across the LOBs, Customer Trends across performance drivers like Sales, Balances, Deposits, Product subscriptions (revenue services), Credit scores and delinquency bands, losses, and so on, Wallet Share analysis and customer lifetime value, Efficiency of investments (like marketing, branch, channel and so on) over time.

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

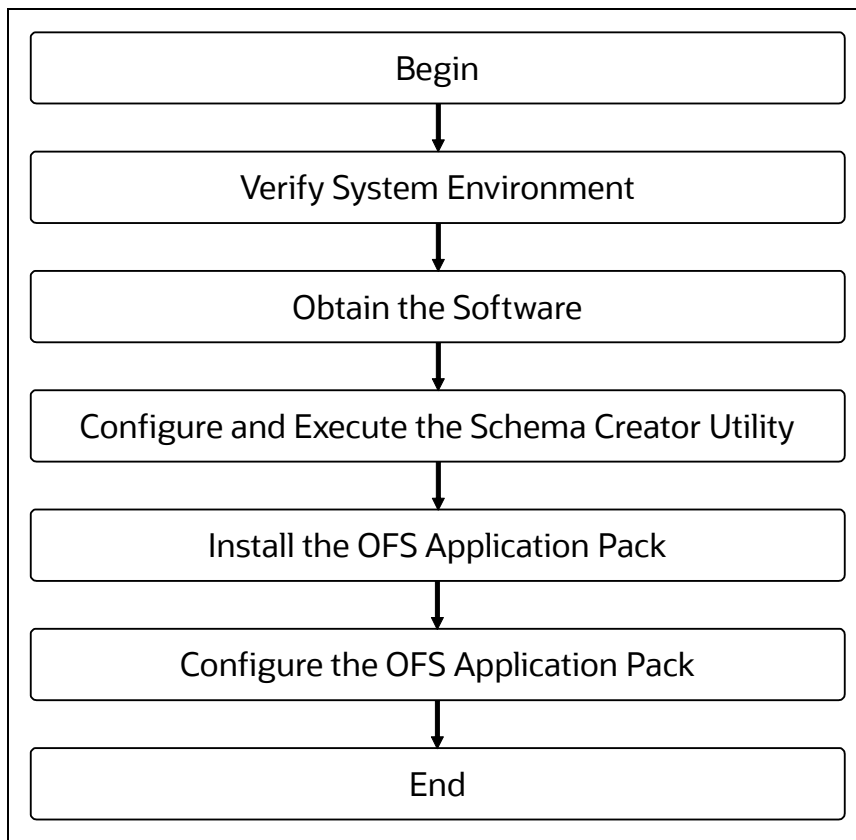
The pack is enabled by the procurement of an additional license. For more information, see the OFS AAIE Release Notes and Installation Guide on the [OHC Documentation Library](#).

2.4 Installation Overview

Release 8.1.0.0.0 of OFS PFT Applications Pack supports fresh installation and also upgrade from versions 8.0.6.1.0 or 8.0.7.0.0.

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

Figure 4: Installation Flow of OFSAA Application Packs



3 Complete Installation Checklist

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

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

Table 4: Installation Checklist

Sl. No.	Installation Activity
1	Extract the installer kit.
2	Install the Pre-installation Patches.

Sl. No.	Installation Activity
3	Configure the OFS_PFT_PACK.xml file.
4	Configure the OFS_PFT_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.

Table 5: 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_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	OFSAA Landing Page
12	Configure the excludeURLList.cfg file
13	Change the ICC batch ownership.
14	Add TNS entries in the tnsnames.ora file.
15	Create Application Users.
16	Map the Application User(s) to User Groups.
17	Set TDE and Data Redaction in OFSAAI.
18	Implement Data Protection in OFSAA.

Table 6: Additional Configuration

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.
8	Configure and deploy the OFSAAI web services.
9	Enable the parallel execution of DML statements.
10	Configure the message details in the Forms Designer.
11	Clear the application cache.
12	Configure the password changes.
13	Configure the Java Virtual Machine.
14	Configure the internal service (Document Upload/Download).
18	Migrate the Excel upload functionality.
19	Remove the OFSAA Infrastructure.

4 Hardware and Software Requirements

This section describes the Operating Systems, Database, Web Servers, and Web Application Server versions, and other variants on which this release of the Oracle Financial Services Profitability Applications Pack is qualified.

Topics:

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

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

See the [OFSAA Technology Matrix](#) for the hardware and software required to install OFSAA Profitability Applications Release 8.1.0.0.0.

The following software combinations are recommended.

Table 7: Recommended Software Combinations

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

4.1 Third-party Licensing Information

For details on the third-party software tools used in OFSAA Profitability Applications Pack, see the [OFSAA Licensing Information User Manual Release 8.1.0.0.0](#).

4.2 Verify System Environment

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

It can also be obtained separately by contacting [Oracle Support](#).

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

For more details on download and usage of this utility, see the [Oracle Financial Services Analytical Applications Infrastructure Environment Check Utility Guide](#).

5 Pre-installation

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

Topics:

- [Pre-installation Checklist](#)
- [Hardware and Software Requirements and Specifications](#)
- [Preparing for Installation](#)
- [Installation Overview](#)
- [Installation and Upgrade Scenarios](#)
- [Compatibility Matrix](#)

5.1 Pre-installation Checklist

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

Table 8: Pre-installation Checklist

Sl. No.	Pre-installation Activity
1	Install all the prerequisite hardware and software given in the Tech Stack.
2	Verify the System Environment using the Environment Check Utility.
3	Configure the Database Instance settings.
4	Install and configure the web application server.
5	Configure the HTTP settings on the webserver.
6	<p>Create the Installation, Download, and Metadata Repository Directories:</p> <ul style="list-style-type: none"> • Installation directory • Temporary directory • Staging Area/Metadata Repository • Download directory
7	<p>Configure the following Operating System and File System settings:</p> <ul style="list-style-type: none"> • File Descriptor • Total number of processes • Port(s) • .profile file permissions • Add FTP/SFTP configuration for file transfer

Sl. No.	Pre-installation Activity
8	<p>Update the following Environment Settings required for the installation in the <code>.profile</code> file:</p> <ul style="list-style-type: none"> • Java Settings • Oracle Database Server and Client Settings • Add TNS entries in the <code>tnsnames.ora</code> file • Oracle Essbase Settings • Time Zone Settings
9	Download the installer kit and erwin data models.
10	Perform prerequisites for installation.

5.2 Preparing for Installation

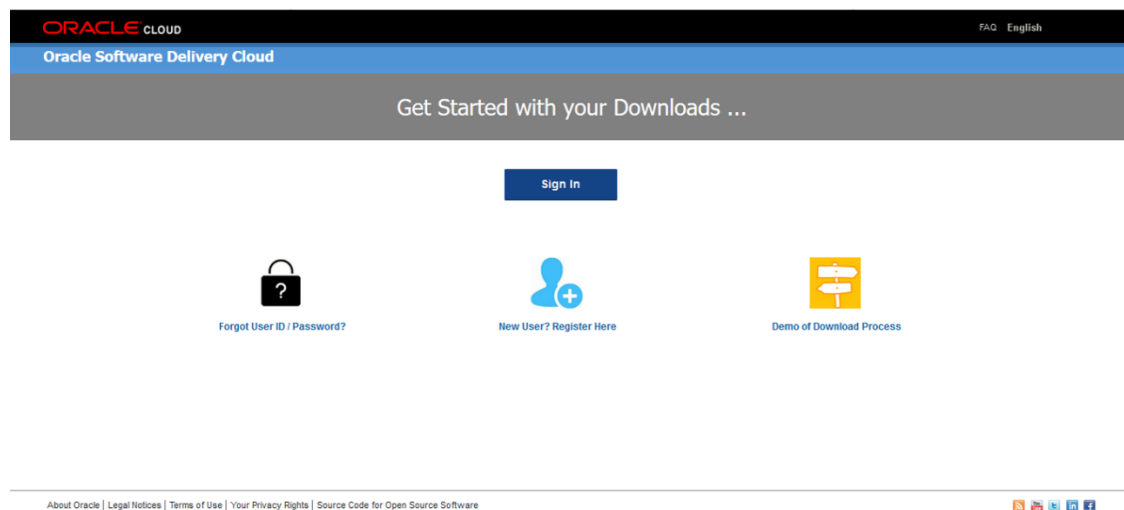
This section describes how to download the installer and the mandatory prerequisites you must ensure installing the OFS PFT Pack.

5.2.1 Download the OFS PFT Applications Pack Installer and Erwin Data Models

To download the OFS PFT Applications Pack Installer Release v8.1.0.0.0, follow these steps:

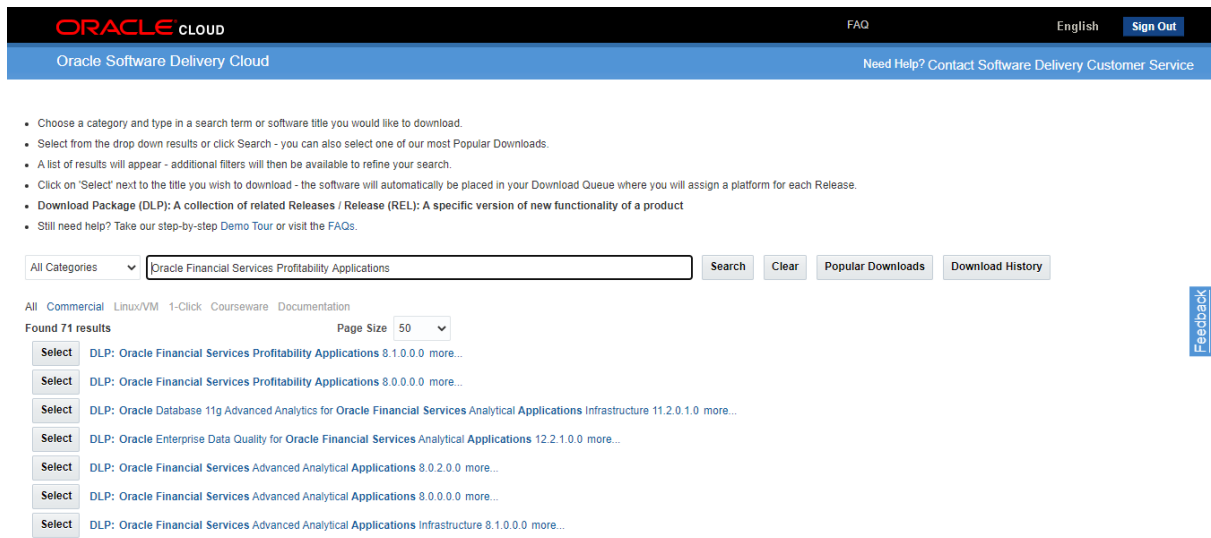
1. Log in to the [Oracle Software Delivery Cloud](#) with a valid Oracle account.

Figure 5: Oracle Software Delivery Cloud Login Page



2. Search for the full product name **Oracle Financial Services Profitability Management Applications Pack** and download the installer archive.

Figure 6: Oracle Software Delivery Cloud Page



3. Download the installer archive and copy (in Binary mode) to the download directory in the setup identified for OFS PFT Applications Pack installation.
4. Download the following erwin data models from [My Oracle Support](#):
 - OFS FTP erwin data model: Patch ID **31484114**
 - OFS PFT erwin data model: Patch ID **31484076**
 - OFS EFPA erwin data model: Patch ID **31485147**
 - OFS IPA and RPA erwin data model: Patch ID **31485129**

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 OFS PFT Applications Pack 8.0.x releases, where data model patches were only released at the pack level. Customers must download the data models as per the application licenses they hold and merge with the custom data model.

- 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.

5.2.2 Prerequisites for Installation

Before beginning the installation, ensure that:

- You have executed the `.profile` file.
- The FICServer is up and running. For information on restarting the services, see the *Start the Infrastructure Services* section in the [OFS Advanced Analytical Applications Infrastructure Release 8.1.0.0.0 Installation and Configuration Guide](#).

5.3 Compatibility Matrix

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

Table 9: Compatibility Matrix

If you are installing	Do not install
OFS_PFT_PACK	OFS_PFT_INS_PACK OFS_BD_PACK OFS_CRR_PACK?
OFS_PFT_INS_PACK	OFS_PFT_PACK OFS_ALM_PACK OFS_BSP_PACK
OFS_ALM_PACK	OFS_PFT_INS_PACK
OFS_BSP_PACK	OFS_PFT_INS_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 Applications Pack to release v8.1.0.0.0, you must upgrade the other packs (ALM, IFRS, and so on) installed in the same environment to release v8.1.0.0.0, to ensure successful deployment.

6 Installation

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

Topics:

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

6.1 Installation Checklist

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

Table 10: Installation Checklist

Sl. No.	Installation Activity
1	Extract the installer kit.
2	Install the Pre-installation Patches.
3	Configure the OFS_PFT_PACK.xml file.
4	Configure the OFS_PFT_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.

6.2 Extract the Software

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

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

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

Uncompress the unzip installer file with the command:

```
uncompress unzip_<os>.Z
```

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

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

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

For example: `chmod 751 unzip_sparc`

3. Extract the contents of the OFS PFT Applications Pack Release 8.1.0.0.0 installer archive file in the download directory using the following command:

```
unzip OFS_PFT_PACK.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_Pack
```

6.3 Install Pre-installation Patches

Before installing OFSAAI 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.

6.4 Configure the OFS_PFT_PACK.xml File

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

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

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

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

Figure 7: Sample OFS_PFT_PACK.xml File

```

<APP_PACK_CONFIG>
  <APP_PACK_ID>OFS_PFT_PACK</APP_PACK_ID>
  <APP_PACK_NAME>Financial Services Profitability Applications Pack
</APP_PACK_NAME>
  <APP_PACK_DESCRIPTION>Applications for Profitability in the Banking and
Financial Services 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</APP_ID>
    <APP_NAME>Financial Services Profitability Management</APP_NAME>
    <APP_DESCRIPTION>Application for Profitability Management</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_FTP</APP_ID>
    <APP_NAME>Financial Services Funds Transfer Pricing</APP_NAME>
    <APP_DESCRIPTION>Application for Funds Transfer Pricing</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_IPA</APP_ID>
    <APP_NAME>Financial Services Institutional Performance Analytics</APP_NAME>
    <APP_DESCRIPTION>Application for Institutional Performance Analytics
</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_RPA</APP_ID>
    <APP_NAME>Financial Services Retail Performance Analytics</APP_NAME>
    <APP_DESCRIPTION>Application for Retail Performance Analytics
</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_EFPA</APP_ID>
    <APP_NAME>Financial Services Enterprise Financial Performance Analytics
</APP_NAME>
    <APP_DESCRIPTION>Application for Enterprise Financial Performance
Analytics</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
</APP_PACK_CONFIG>

```

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

Table 11: OFS_PFT_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	<p>Unique Seeded Value.</p> <p>For most applications, the prerequisite that is set is OFS AAAI. For all other applications, the default Application ID is set to none.</p> <p>You can set it for the applications you want to install.</p> <p>Do not modify this value.</p>
APP_ID/ DEF_SEL_FLAG	Default Selected Flag	Y	<p>In all Application Packs, Infrastructure would have this value set to YES.</p> <p>Do not modify this value.</p>
APP_ID/ ENABLE	Enable Application or Product	Y	<ul style="list-style-type: none"> • Default YES for Infrastructure • NO for others <p>Set this attribute value to YES against every APP_ID which is licensed and must be enabled for use.</p> <p>NOTE: The Application/Product cannot be disabled once enabled.</p> <p>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.</p>
APP_NAME	Unique Application or Product Name	Y	Unique Seeded Value. Do not modify this value.

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

4. Save and close the file.

6.5 Configure the Schema Creator Utility

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

Configure and execute the schema creator utility before installing the OFS PFT Applications Pack.

Topics:

- [Prerequisites](#)
- [Configure Schema Creator Utility for RDBMS Installation](#)
- [Execute the Schema Creator Utility](#)

6.5.1 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.

6.5.2 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_SCHEMA_IN.xml` file.

You can configure the following schema types:

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

6.5.2.1 Configure the OFS_PFT_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_SCHEMA_IN.xml`. Update the required values in this file before executing the Schema Creator Utility.

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

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

Figure 8: Sample OFS_PFT_SCHEMA_IN.xml File

```

<APPPACKSCHEMA>
  <APP_PACK_ID>OFS_FTP_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=
      "##OFSAA_CONF_TBSP##" TEMPTABLESPACE="TEMP" QUOTA="UNLIMITED" />
    <SCHEMA TYPE="ATOMIC" NAME="" PASSWORD="" APP_ID="OFS_FTP" APP_GRP="1" INFODOM=""
      DEFAULTTABLESPACE="##OFSAA_DATA_TBSP##" TEMPTABLESPACE="TEMP" QUOTA="UNLIMITED" />
  </SCHEMAS>
</APPPACKSCHEMA>

```

Table 12: OFS_PFT_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.

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Default Value or Permissible Value	Comments
<IS_TCPS>	Enter if the TCPS configuration is required.	Y	Seeded, with FALSE as the default value.	Modify this to TRUE if you require the installer to uptake the configuration.

Tag Name and Attribute Name	Description	Mandatory (Y or N)	Default Value or Permissible Value	Comments
<JDBC_URL>	<p>Enter the JDBC URL.</p> <p>You can enter the RAC/ NON-RAC enabled database connectivity URL.</p>	Y	<p>Example:</p> <p>jdbc:oracle:thin:@< DBSERVER IP/ HOST/ IP>:<PORT>:<SID></p> <p>or</p> <p>jdbc:oracle:thin:@//[HOST][:PORT]/SERVICE</p> <p>or</p> <p>jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=[HOST])(port=[PORT]))(ADDRESS=(PROTOCOL=TCP)(HOST=[HOST])(PORT=[PORT])(LOAD_BALANCE=yes)(FAILOVER=yes)(CONNECT_DATA=(SERVICE_NAME=[SERVICE]))))</p> <p>For example:</p> <p>jdbc:oracle:thin:@//dbhost1.server.com:1521/service1</p> <p>or</p> <p>jdbc:oracle:thin:@//dbhost1.server.com:1521/scan-1</p> <p>or</p> <p>jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=dbhost1.server.com)(port=1521))(ADDRESS=(PROTOCOL=TCP)(HOST=dbhost2.server.com)(PORT=1521))(LOAD_BALANCE=yes)(FAILOVER=yes)(CONNECT_DATA=(SERVICE_NAME=service1)))</p>	<p>Ensure that you add an entry (with SID/ SERVICE NAME) in the <code>tnsnames.ora</code> file on the OFSAA server. The entry must match the SID/ SERVICE NAME used in the JDBC URL.</p> <p>Ensure that you have configured:</p> <ol style="list-style-type: none"> 1. The correct Oracle Wallet with the credentials for stored Sys, Config, and Atomic Users. 2. The JDBC URL as follows: <code>jdbc:oracle:thin:@</code> <p>For more information on how to configure Oracle Wallets for OFSAA Installation and Data Sources, see the OFS Analytical Applications Infrastructure Administration Guide.</p>

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

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

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

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

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

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

4. Save and close the file.

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

```
-----
<ADV_SEC_OPTIONS>
<OPTION NAME="TDE" VALUE="FALSE"/>
<OPTION NAME="DATA_REDACT" VALUE="FALSE" />
</ADV_SEC_OPTIONS>
<TABLESPACES>
```

```
<TABLESPACE NAME="OFS_AAI_TBSP_1" VALUE="TS_USERS1" DATAFILE="/
scratch/ora12c/app/oracle/oradata/OFSPQA12CDB/ts_users1.dbf" SIZE="500M" AUTOEXTEND="ON"
ENCRYPT="ON" />

<TABLESPACE NAME="OFS_AAI_TBSP_2" VALUE="TS_USERS2" DATAFILE="/
scratch/ora12c/app/oracle/oradata/OFSPQA12CDB/ts_users2.dbf" SIZE="500M" AUTOEXTEND="ON"
ENCRYPT="ON" />

</TABLESPACES>

<SCHEMAS>

<SCHEMA TYPE="CONFIG" NAME="ofsaaconf" PASSWORD="" APP_ID="OFS_AAI"
DEFAULTTABLESPACE="##OFS_AAI_TBSP_1##" TEMPTABLESPACE="TEMP"
QUOTA="unlimited"/>

<SCHEMA TYPE="ATOMIC" NAME="ofsaaatm" PASSWORD="" APP_ID="OFS_AAAI"
DEFAULTTABLESPACE="##OFS_AAI_TBSP_2##" TEMPTABLESPACE="TEMP" QUOTA="unlimited"
INFODOM="OFSAAAIINFO"/>

</SCHEMAS>
```

6.6 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](#)

6.6.1 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/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 9: Schema Creation in Offline Mode – Enter User Password

```

osc.sh
$ ./osc.sh -o
=====
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):
Y
=====
Java Validation Started ...
Java found in : /scratch/ofsaajdk1.6.0_25/bin
JAVA Version found : 1.6.0_25
JAVA Bit Version found : 64-bit
Java Validation Completed. Status : SUCCESS
=====
DB specific Validation Started ...
Enter the DB User Name with the following privileges:
1. CREATE SESSION
2. SELECT on DBA_ROLES
3. SELECT on DBA_USERS
4. SELECT on DBA_DIRECTORIES
5. SELECT on DBA_TABLESPACES
Enter the User Name:
sys as sysdba
Enter the User Password:
Oracle Client version : 11.2.0.3.0. Status : SUCCESS
Oracle Server version Current value : 11.2.0.3.0. Status : SUCCESS
DB specific Validation Completed. Status : SUCCESS
=====

```

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

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

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

The following message is displayed:

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

Enter **Y** to proceed.

Figure 10: Schema Creation in Offline Mode – Script Generation

```

=====
Generating Schema Creation Scripts Started
=====
Checking OFSAA installation...
Found OFSAA installation at /scratch/ofsaadb/OFSAAI
Validating the dat file OFS_AAAI_CFG.dat started...
Successfully validated OFS_AAAI_CFG.dat file
Parsing /scratch/ofsaadb/OFSAAI/conf/DynamicServices.xml
Successfully connected to User - dev_conf1 URL - jdbc:oracle:thin:@ofss220623:1521:MEDIADB
Validating the input XML file.../scratch/ofsaadb/OFS_AAAI_PACK/schema_creator/conf/OFS_AAAI_SCHEMA_IN.xml
Input XML file validated successfully.
=====
Validating Connection URL ...jdbc:oracle:thin:@ofss220623:1521:MEDIADB
Successfully connected to User - sample URL - jdbc:oracle:thin:@ofss220623:1521:
MEDIADB
Connection URL successfully validated...
You have chosen to install this Application Pack on "uat_atm_anurag" ATOMIC sche
ma. Do you want to proceed? (Y/N)
Y
You have chosen to install this Application Pack on INFODOM "ofsaainfoi". Do y
ou want to proceed? (Y/N)
Y
=====

```

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/schema_creator/sysdba_output_scripts.sql before proceeding with the installation.

NOTE If there are any errors during the SQL script execution, reconfigure the `OFS_PFT_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/schema_creator` directory.
9. Log in to the database using credentials with SYSDBA privileges.
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_SCHEMA_OUTPUT.XML` file is successfully generated. Do not modify this file.

6.6.2 Execute the Schema Creator Utility in Online Mode

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

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

1. Log in to the system as a non-root user.
2. Navigate to the `OFS_PFT/schema_creator/bin` directory.
3. Execute the utility.

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

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

6.6.3 Execute the Schema Creator Utility in TCPS Mode

If you intend to run the OFS PFT Application Pack Installer in TCPS mode, it is mandatory to execute the schema creator utility with the `-s` option and in the Online mode.

6.6.3.1 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.

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

6.6.3.2 Execute the Schema Creator Utility

To execute the utility, follow these steps:

1. Edit the OFS_PFT_PACK/schema_creator/conf/OFS_PFT_SCHEMA_IN.xml file in a text editor. See the tables in [Configure the OFS PFT 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 11: Schema Creation in the TCPS Mode

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

The following message is displayed:

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

3. Enter Y to proceed.

The following message is displayed:

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

Figure 12: Schema Creation in the TCPS Mode – Install on Atomic Schema

```
0430: 58 8D 05 B2 02 0F 2D 01 0C 00 00 00 00 00 04 X.....-.....
0440: 01 01 02 23 E4 00 02 05 7B 00 00 01 0C 01 0E 03 ...#.....
0450: 00 00 00 00 00 00 00 00 00 00 00 00 10 00 01 01 .....
0460: 00 00 00 00 02 05 7B 00 19 4F 52 41 2D 30 31 34 .....ORA-014
0470: 30 33 3A 20 6E 6F 20 64 61 74 61 20 66 6F 75 6E 03: no data foun
0480: 64 0A 61 1D D5 6D 51 10 60 C1 A6 85 B4 88 52 0F d.a..mQ.`.....R.
0490: A4 F8 CA 1B 2C F2 09 09 09 09 09 09 09 09 .....
You have chosen to install this Application Pack on "t81s_ofsaaatm" ATOMIC schema. Do you want to proceed? (Y/N):
Y
```

4. Enter Y to proceed.
5. After Schema creation is successful, proceed to [Configure the OFSAAI InstallConfig.xml File](#).

Figure 13: Schema Creation in the TCPS Mode

```

0030: 05 02 24 2C 00 00 00 00 01 10 00 2B 00 00 00 00 ..$,.....+....
0040: 00 00 00 00 00 00 00 00 58 00 01 01 00 00 00 00 .....X.....
0050: 00 00 EE 63 D9 C7 F0 3C A2 23 E1 34 68 01 68 96 ...c...<.#.4h.h.
0060: 4F 69 FD 59 9F 23 09 09 09 09 09 09 09 09 09 09 Oi.Y.#.....
Grants creation scripts execution completed...
=====
                          Schemas Creation Completed
=====
Schema Creator executed Successfully.Please proceed with the installation.
/scratch/aai8lssl/OFS AAI PACK/schema creator/bin>

```

The result of this task is that the <PACK>_SCHEMA_OUTPUT.XML file is generated. Do not modify this file.

6.6.4 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 / Atomic Schema of the existing application pack or on a new Information Domain / Atomic Schema. You can execute the Schema Creator Utility either in the Online or Offline modes.

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

1. Edit the `OFS_PFT_PACK/schema_creator/conf/OFS_PFT_SCHEMA_IN.xml` file in a text editor. See the [OFS_PFT_SCHEMA_IN.xml](#) file for values you must modify in the XML file.
2. Execute the utility.

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

Figure 14: Schema Creator Utility


```

Validating Connection URL ...jdbc:oracle:thin:@ofss220623:1521:MEDIADB
Successfully connected to User - sample URL - jdbc:oracle:thin:@ofss220623:1521:
MEDIADB
Connection URL successfully validated...
You have chosen to install this Application Pack on "uat_atm_anurag" ATOMIC sche
ma. Do you want to proceed? (Y/N)
Y
You have chosen to install this Application Pack on INFODOM "cfssaaiinf01". Do y
ou want to proceed? (Y/N)
Y
=====
---
Generating TableSpace creation Scripts started...
Generating TableSpace creation Scripts completed...
=====
---
Generating Schema creation scripts started...
CONFIG User uat_conf_anurag creation script generated successfully on Default Ta
bleSpace : USERS on Temp TableSpace : TEMP
Generation of grants creation scripts started...
Generation of grants creation scripts completed...
Scripts Generation for CONFIG schema started ...
Scripts Generation for CONFIG schema completed ...
User uat_conf_anurag details updated into the dbmaster table
User uat_atm_anurag details updated into the dbmaster table
User uat_atm_anurag creation script generated successfully on Default TableSpace
 : USERS on Temp TableSpace : TEMP
User uat_atm_anurag creation is skipping as the user is already created.
Generating Schema creation scripts completed...
=====
---
Generating Roles creation Scripts started...
Generating Roles creation Scripts completed...
=====
---
Generating Grants creation scripts started...
Generating Grants creation scripts completed...
=====
---
Generating Schema Creation Scripts Completed
=====
Schema Creator executed Successfully.Please execute /scratch/cfssaapp/OFS_AAAI_P
ACK/schema_creator/sysdba_output_scripts.sql before proceeding with the installa
tion.

```

NOTE

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

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

Figure 15: Select the Atomic User

```

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

```

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

Success. Please proceed with the installation.

NOTE

1. See the log file in the OFS_PFT_PACK/schema_creator/logs directory for the execution status.
2. See the sysdba_output_scripts.log file for execution status if executed in offline mode. This log will be empty if there are no errors in the execution.
3. If there are any errors, contact [My Oracle Support](#).

6.7 Configure the OFSAAI_InstallConfig.xml File

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

1. Navigate to the OFS_PFT_PACK/OFS_AAI/conf/ folder.
2. Open the OFSAAI_InstallConfig.xml file in a text editor.
3. Configure the OFSAAI_InstallConfig.xml file as mentioned in the following table.

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

Table 13: OFSAA Infrastructure Installation Tasks and Descriptions

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

InteractionVariable Name	Significance and Expected Value	Mandatory
	Note: See the JDBC Jar files to identify the correct <code>ojdbc<version>.jar</code> version to be copied.	
InteractionGroup name="OLAP Detail"		
OLAP_SERVER_IMPLEMENTATION	<p>Identifies whether the OFSAA infrastructure OLAP component needs to be configured. It depends on whether you intend to use the OLAP feature. The following numeric value must be set depending on your choice:</p> <ul style="list-style-type: none"> • YES: 1 • NO: 0 <p>Note: If the value for <code>OLAP_SERVER_IMPLEMENTATION</code> is set to 1, the installer checks if the following environment variables are set in the <code>.profile</code> file:</p> <ul style="list-style-type: none"> • ARBORPATH • HYPERION_HOME • ESSBASEPATH 	No
InteractionGroup name="SFTP Details"		
SFTP_ENABLE	<p>Identifies if the SFTP (Secure File Transfer Protocol) feature is to be enabled. The following numeric value must be set depending on your choice:</p> <ul style="list-style-type: none"> • SFTP: 1 • FTP: 0 	Yes
<p>NOTE: The default value for <code>SFTP_ENABLE</code> 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 <code>SFTP_ENABLE</code> to 0. You can change this selection later from the OFSAAI administration interface. Set <code>SFTP_ENABLE</code> to -1 to configure ftpshare and weblocal path as a local path mounted for the OFSAAI server.</p>		
FILE_TRANSFER_PORT	<p>Identifies the port used for the file transfer service. The default value specified is 22 (SFTP). Specify a value like 21 or any other PORT value if the value for <code>SFTP_ENABLE</code> is 0.</p> <p>For example, <code><InteractionVariable name="FILE_TRANSFER_PORT">21</InteractionVariable></code></p>	Yes
InteractionGroup name="Locale Detail"		
LOCALE	Identifies the locale information to be used during the installation. This release of the OFSAA Infrastructure supports only US English.	Yes

InteractionVariable Name	Significance and Expected Value	Mandatory
	For example, <InteractionVariable name="LOCALE">en_US</InteractionVariable>	
InteractionGroup name="OFSAA Infrastructure Communicating ports"		
Note: The following ports are used internally by the various OFSAA infrastructure services. The default values mentioned are set in the installation. If you intend to specify a different value, update the parameter value accordingly, ensure that the port value is in the range 1025 to 65535, and the respective port is enabled.		
JAVAPORT	9999	Yes
NATIVEPORT	6666	Yes
AGENTPORT	6510	Yes
ICCPORT	6507	Yes
ICCNATIVEPORT	6509	Yes
OLAPPORT	10101	Yes
MSGPORT	6501	Yes
ROUTERPORT	6500	Yes
AMPORT	6505	Yes
InteractionGroup name="Web Details"		
Note: If the value for HTTPS_ENABLE is set to 1 , ensure that you have a valid certificate available from a trusted CA and it is configured on your web application server. For more details on configuring your setup for HTTPS.		
HTTPS_ENABLE	Identifies whether the UI must be accessed using HTTP or HTTPS scheme. The default value is set to 0 . The numeric value must be set depending on the following options: <ul style="list-style-type: none"> • YES: 1 • NO: 0 For example, <InteractionVariable name="HTTPS_ENABLE">0</InteractionVariable>	Yes
WEB_SERVER_IP	Identifies the HTTP Server IP/ Hostname or Web Application Server IP/ Hostname, to be used to access the UI. This IP is typically the HTTP Server IP.	No

InteractionVariable Name	Significance and Expected Value	Mandatory
	<p>If a separate HTTP Server is not available, then the value must be Web Application Server IP/Hostname.</p> <p>For example, <code><InteractionVariable name="WEB_SERVER_IP">10.11.12.13</InteractionVariable></code></p> <p>or</p> <p><code><InteractionVariable name="WEB_SERVER_IP">myweb.server.com</InteractionVariable></code></p>	
WEB_SERVER_PORT	<p>Identifies the webserver port, which is typically 80 for non SSL and 443 for SSL. If a separate HTTP server exists, the port value must be the value configured for the webserver.</p> <p>Warning: The installer will not accept the port value as:</p> <ul style="list-style-type: none"> • 80, if the HTTPS_ENABLE variable is 1 • 443, if the HTTPS_ENABLE variable is 0 <p>For example, <code><InteractionVariable name="WEB_SERVER_PORT">80</InteractionVariable></code></p>	No
CONTEXT_NAME	<p>Identifies the web application context name which is used to build the URL to access the OFSAA application. You can identify the context name from the following URL format:</p> <p><code><scheme>://<host>:<port>/<context-name>/login.jsp</code></p> <p>For example: <code>https://myweb:443/ofsaadev/login.jsp</code></p> <p>For example, <code><InteractionVariable name="CONTEXT_NAME">ofsaadev</InteractionVariable></code></p>	Yes
WEBAPP_CONTEXT_PATH	<p>Identifies the absolute path of the exploded EAR file on the web application server.</p> <ul style="list-style-type: none"> • For Tomcat, specify the Tomcat directory path till /webapps. For example: <code>/oradata6/revwb7/tomcat/webapps/</code>. • For WebSphere, specify the WebSphere path as <code><WebSphere profile directory>/installedApps/<NodeCellName></code>. For example: <code>/data2/test//WebSphere/AppServer/profiles/<Profile_Name>/installedApps/aiximfNode01Cell</code>, where aix-imf is the Host name. • For WebLogic, specify the WebLogic home directory path. For example: <code>/<WebLogic home directory path>/bea/wlserver_10.3</code> <p>Note: For WebLogic, the value specified for this attribute is ignored and the value provided against the attribute WEBLOGIC_DOMAIN_HOME is considered.</p>	Yes

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

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

6.7.1 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

6.8 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 uploaded.

6.9 Configure the Silent.props File

This section is applicable for a new installation of OFS PFT Applications Pack Release 8.1.0.0.0. In the installer kit path `OFS_PFT_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 parameters OFS_FTP_SEGMENT_1_CODE, OFS_PFT_SEGMENT_1_CODE, OFS_EFPA_SEGMENT_1_CODE, OFS_IPA_SEGMENT_1_CODE, OFS_RPA_SEGMENT_1_CODE must be 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 the OFS PFT pack installed.

Table 14: Parameters for the Silent.props File

Property Name	Description of Property	Permissible Values	Comments
LOG_MODE	Mode for logging	0 = Debug (Passwords will not be printed in the log file) 1 = General (Password will be printed in the log file)	Default: 0 This is optional.
SEGMENT_1_CODE	Segment Code	Not Applicable	Mandatory NOTE: The Segment Code should be in upper case.
APPFTP_LOG_PATH	Infodom Maintenance log path (to be created) for the new Infodom for applayer	Not Applicable	# Mandatory if this an App Layer Installation and if you want to create a new infodom. # That is, you have specified INSTALL_APP=1 and INFODOM_TYPE=0
DBFTP_LOG_PATH	Infodom Maintenance log path (to be created) for the new Infodom for DBLayer	Not Applicable	# Mandatory if this an App Layer Installation and if you want to create a new infodom. # That is, you have specified INSTALL_APP=1 and INFODOM_TYPE=0
UPLOAD_MODEL	To perform the Model Upload.	0: No 1: Yes	Mandatory
MODEL_TYPE	The released data model or a customized data model.	0: Released 1: Customized	Mandatory only if you want to upload the data model.
DATAMODEL	The path for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.

Property Name	Description of Property	Permissible Values	Comments
DM_DIRECTORY	The file name for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.
OBI Parameters			
OFS_EFPA_OBI_HOST	The hostname or IP Address of the OBIEE server.	For example: 10.11.12.13 Or myweb.server.com Or NA	Mandatory
OFS_EFPA_OBI_PORT	The port number of the OBIEE server.	For example: 9500 Or NA	Mandatory
OFS_EFPA_OBI_CONTEXT	The context of the OBIEE.	For example: Analytics Or NA	Mandatory
OFS_EFPA_OBI_PROTOCOL	The protocol details of the OBIEE server.	http or https Or NA	Mandatory
OFS_IPA_OBI_HOST	The hostname or IP Address of the OBIEE server.	For example: 10.11.12.13 or myweb.server.com Or NA	Mandatory
OFS_IPA_OBI_PORT	The port number of the OBIEE server.	For example: 9500 Or NA	Mandatory
OFS_IPA_OBI_CONTEXT	The context of the OBIEE.	For example: Analytics Or NA	Mandatory
OFS_IPA_OBI_PROTOCOL	The protocol details of the OBIEE server.	http or https	Mandatory

Property Name	Description of Property	Permissible Values	Comments
OFS_RPA_OBI_HOST	The hostname or IP Address of the OBIEE server.	For example: 10.11.12.13 or myweb.server.com Or NA	Mandatory
OFS_RPA_OBI_PORT	The port number of the OBIEE server.	For example: 9500 Or NA	Mandatory
OFS_RPA_OBI_CONTEXT	The context of the OBIEE.	For example: Analytics Or NA	Mandatory
OFS_RPA_OBI_PROTOCOL	The protocol details of the OBIEE server.	http or https Or NA	Mandatory
ETL_APPSRC_TYPE	Create new ETL App or Src pair or use an existing one	0 = New 1 = Existing	#Mandatory if this an App layer installation. # That is, you have specified INSTALL_APP=1. # 0 = If you want to create a new ETL app or src pair # 1 = If you want to use an existing pair
ETL_APP_1_DESC	Description for the ETL App	Not Applicable	# Mandatory if you want to create a new ETL app or src pair. #That is, you have specified ETL_APPSRC_TYPE=0
ETL_SRC_1_1_DESC	Description for the ETL Staging source description	Not Applicable	# Mandatory if you want to create a new ETL app or src pair. #That is, you have specified ETL_APPSRC_TYPE=0

Property Name	Description of Property	Permissible Values	Comments
ETL_SRC_1_2_DESC	Description for the ETL Processing source description	Not Applicable	# Mandatory if you want to create a new ETL app or src pair. #That is, you have specified ETL_APPSRC_TYPE=0
ETL_APP_1_NAME	ETL application name	Not Applicable	This is for the App Layer installation.
ETL_SRC_1_1_NAME	ETL Staging source name	Not Applicable	This Source must be mapped to the above ETL Application.
ETL_SRC_1_2_NAME	ETL Processing source name	Not Applicable	This Source must be mapped to the above ETL Application.

6.10 Install the OFS PFT 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_PACK.xml File](#)
3. [Configure the OFS_PFT_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](#)
6. [Configure the Silent.props File](#)

To install the OFS PFT Applications 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_PACK/bin` directory.

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

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

```
./setup.sh SILENT
```

The installer proceeds with the pre-installation checks.

Figure 16: Installation

```
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_bconfig81t. 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.StandardFileManager).
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 17: OFSAA Processing Tier FTP/SFTP password

```

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

Please enter Infrastructure FTP/SFTP password : █

```

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

Figure 18: OFSAA License Agreement

```

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

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

```

8. The installer installs the OFS AAI application.

Figure 19: OFS AAI Installation

```

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

Please enter password for default Infrastructure administrator user SYSADMIN:

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

Please enter password for default Infrastructure authorizer user SYSAUTH:

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

Launching installer...

Preparing SILENT Mode Installation...

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

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

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

```

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

Figure 20: OFS PFT Installation

```

*****
Welcome to OFS_IBCE_PACK Installation
*****
Starting OFSAA Service...
OFSAA Service - OK
Preparing to install...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...

Preparing SILENT Mode Installation...

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

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

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

Installation Complete.
failurecount --- 1
Pack Name found is: OFS_IBCE_PACK
[DynamicServiceManager][GlobalParameters.ISWEB]false
FIC_HOME:/scratch/bcuser/OFSAA/
Pack ID got for Synch is OFS_IBCE_PACK
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.

```


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

The following message is displayed in the console: *Installation completed*

10. To verify if the release is applied successfully, check the log files mentioned in the [Verify the Log File Information](#) section.
11. After the installation OFS PFT Pack 8.1.0.0.0 is successful, complete the required [Post-installation](#) steps.

7 Post-installation

After the successful installation of the OFS PFT Applications Pack Release 8.1.0.0.0, follow the post-installation procedures.

Topics:

- [Post-installation Checklist](#)
- [Verify the Log File Information](#)
- [Backup the SCHEMA_CREATOR.xml, OFS_PFT_SCHEMA_OUTPUT.xml, and Silent.props Files](#)
- [Change the ICC Batch Ownership](#)
- [Excel Upload Mapping and Template](#)
- [FTP Web Service Configuration](#)
- [Additional Configuration](#)

7.1 Post-installation Checklist

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

NOTE See the *Post-Installation* section in the [OFS AAI Release 8.1.0.0.0 Installation and Configuration Guide](#) to complete these procedures.

Table 15: Post-installation Checklist

Sl. No.	Post-installation Activity
1	Verify the installation logs.
2	Patch OFSAA Infrastructure Installation.
3	Back up the SCHEMA_CREATOR.xml, OFS_PFT_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	OFSAA Landing Page

Sl. No.	Post-installation Activity
12	Configure the <code>excludeURLList.cfg</code> file
13	Change the ICC batch ownership.
14	Add TNS entries in the <code>tnsnames.ora</code> file.
15	Create Application Users.
16	Map the Application User(s) to User Groups.
17	Set TDE and Data Redaction in OFSAAI.
18	Implement Data Protection in OFSAA.

7.2 Verify the Log File Information

See the following logs files for more information:

- `Pack_Install.log` file in the `OFS_PFT_PACK/logs/` directory.
- Infrastructure installation log files in the `OFS_PFT_PACK/OFS_AAI/logs/` directory.
- PFT installation log files in the `OFS_PFT_PACK/OFS_PFT/logs/` directory.
- `OFS_PFT_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_PFT/logs` directory
- `OFS_FTP_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_FTP/logs` directory
- `OFS_EFPA_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_EFPA/logs` directory
- `OFS_IPA_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_IPA/logs` directory
- `OFS_RPA_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_RPA/logs` directory

7.3 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 OFSAAI 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.

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

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

Table 16: Directory of Files to Backup

File Name	Directory
OFS_PFT_SCHEMA_IN.xml	OFS_PFT_PACK/schema_creator/conf
OFS_PFT_SCHEMA_OUTPUT.xml	OFS_PFT_PACK/schema_creator/
Silent.props	OFS_PFT_PACK/appsLibConfig/conf

7.5 Add Atomic Scheme Details in the tnsnames.ora File

Add TNS entries in the tnsnames.ora file for every Schema created for the Application Pack.

To add the Atomic Schema in the tnsnames.ora file, follow these steps:

1. Log in to the system as a non-root user.
2. Navigate to the OFS_ALM_PACK/Schema_Creator/conf directory.
3. Edit the tnsnames.ora file using a text editor and add the Atomic Schema as follows and save the file.

```
<ATOMICSCHEMANAME> =
    (DESCRIPTION =
        (ADDRESS_LIST =
            (ADDRESS = (PROTOCOL = TCP) (HOST = <HOST NAME>) (PORT = <PORT
NUMBER>))
        )
        (CONNECT_DATA =
            (SERVICE_NAME = <SID NAME>)
        )
    )
```

7.6 Access the OFSAA Application

To access the OFSAA application, follow these steps:

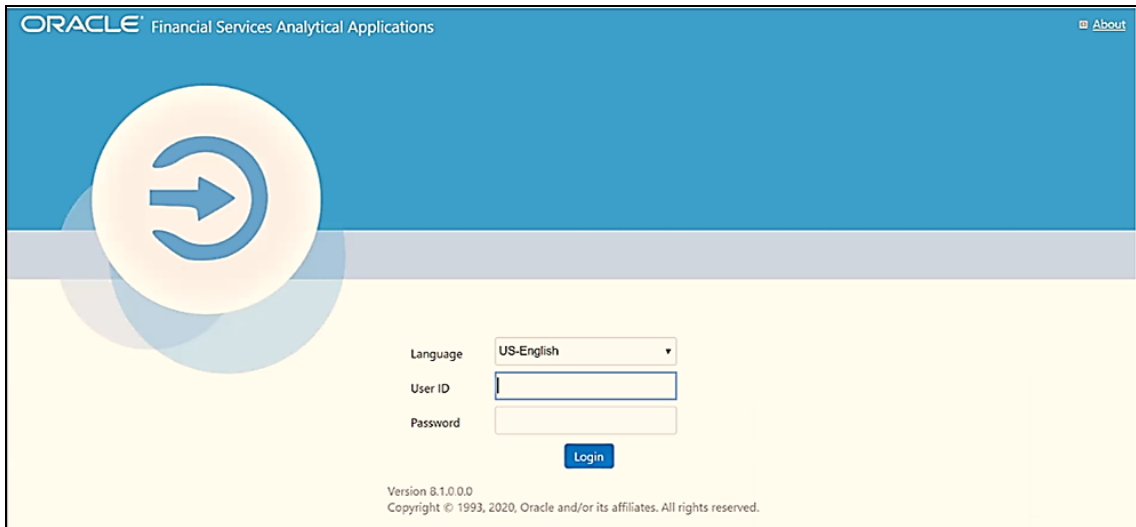
1. Open a browser and enter the URL in the following format:

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

For example, <https://192.0.2.2/ofsaal/login.jsp>

The OFSAA Login window is displayed.

Figure 21: OFSAA Login Window



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

- SYSADMN System Administrator
- SYSAUTH System Authorizer

The SYSADMN and SYSAUTH users are configured with a default password, which you will require to log in for the first time. See the [MOS Doc ID: 2691681.1](#) for the password.

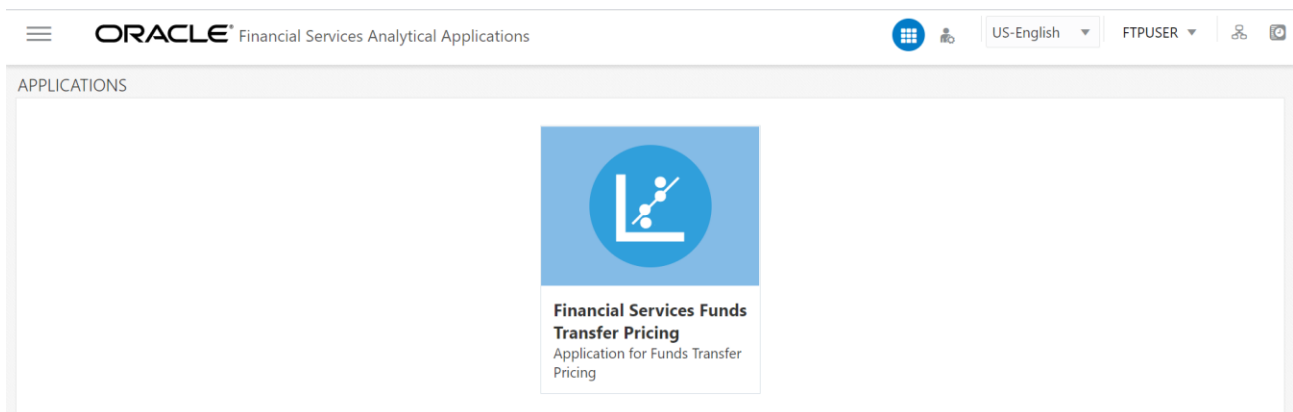
2. Log in to the application using the "SYSADMN" User ID and the default password. After the first log in, you are prompted to change the password.

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

7.7 OFSAA Landing Page

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

Figure 22: OFSAA Landing Page



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

7.8 Change the ICC Batch Ownership

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

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

Where:

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

7.9 Excel Upload Mapping and Template

This section provides steps about the Excel Upload.

1. Post-installation, navigate to the `ExcelUpload` directory present in the path `Extracted Installer location/OFS_IPA/bin/dumps`.
2. In the `ExcelUpload` directory, change the directory name from `infodom` to the name of the respective `infodom`.
3. Copy the `ExcelUpload` directory to the `ftpshare/STAGE` directory.
4. Create the `STAGE` directory in the path `<TOMCAT_HOME>`.
5. Copy the `ExcelUpload` directory to the `STAGE` directory in the path `<TOMCAT_HOME>`.

7.10 OFS Funds Transfer Pricing Web Service Configuration

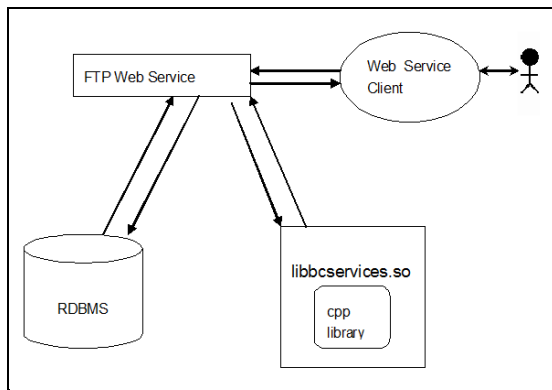
The following installation activity describes how to set up FTP web services to support the Breakage Charge Economic Loss calculation. The calculation logic is the same as the FTP Adjustment Rule Breakage Charge calculation. This FTP Economic Loss Web Service is now independent of EXEWebService. Note that other FTP web services are installed automatically and do not require any further setup.

7.10.1 Approach

The FTP web services are designed as a wrapper which will call the FTP engine for the calculation of Economic Loss. The FTP web service is available in its context and has a specific RESTful URL for that context.

The following picture explains the architecture of FTP Web Service deployment:

Figure 23: FTP Web Service Deployment Architecture



7.10.2 Prerequisites

The following are the prerequisites to deploy the FTP web services:

- For WebLogic and WebSphere, the data source should be present with JNDI name as `jdbc/FTPWS`
- For Tomcat, a separate context entry should be present in the `server.xml` file

7.10.3 Log4j Configuration

The `log4j.properties` file is already present inside the `WEB-INF/classes` directory of the war file. The logs will be generated in the `webservice.log` file under `$root_directory_of_war/logs/directory`.

7.10.4 Setup Environment Variable - `ofsaaws.properties`

The `ofsaaws.properties` file is available in the `WEB-INF/classes` directory. Specify the `cpp_component` name. Place the component `libbcservices.so` under `/ficdb/lib/libFSGBU` directory. Add the library location to `LD_LIBRARY_PATH`.

If web services are deployed in an environment other than where OFSAA is deployed, then copy the `/ficdb/lib/libFSGBU` directory to the web services environment and set the `LIBRARY` path.

- For AIX: `cpp_component= libbcservices.so(libbcservices.o)`
- For Solaris: `cpp_component=bcservices`
- For Linux: `cpp_component=bcservices`

7.10.5 Creating FTPWebServiceAXIS.war

To create the FTPWebServiceAXIS.war file, follow these steps:

1. Navigate to the server path in which the application is running.

For example: `$FIC_HOME/FTPWebService`

2. Run the `ant.sh` in this folder.

The `FTPWebServiceAXIS.war` file will be created in the same folder.

7.10.6 Deploying FTPWebServiceAXIS.war

- **For Tomcat:**
 - a. Copy the `FTPWebServiceAXIS.war` file to the `webapps` folder of the Apache Tomcat directory.
 - b. Go to the `conf` folder of Apache Tomcat and add a separate context entry in the `server.xml` file with resource name as `jdbc/FTPWS`.

Example:

```
-----
<Context path="/FTPWebServiceAXIS" docBase="/<Tomcat_webapps>
/FTPWebServiceAXIS" debug="0" reloadable="false"
crossContext="true">
<Resource auth="Container"
name="jdbc/FTPWS"
type="javax.sql.DataSource
driverClassName="oracle.jdbc.driver.OracleDriver
username="username"
password="password" url="jdbc:oracle:thin:@db-ip:dp-port:dbname"
maxActive="100"
maxIdle="30"
maxWait="10000"
removeAbandoned="true"
removeAbandonedTimeout="60"
logAbandoned="true"/>
</Context>
-----
```

- c. Restart the server.
- **For Weblogic and WebSphere:**
 - a. Deploy the `FTPWebServiceAXIS.war` file from the admin console.
 - b. Create a data source for database connection with JNDI name as `jdbc/FTPWS`.

Service Signature is present at the following URL:

```
http://<ip>:<port>/FTPWebServiceAXIS/
```

7.10.7 Additional Steps for Configuring the FTP Ad hoc Pricing Web Services

Ad hoc pricing web services (`getpricing`) are deployed along with the OFSAA FTP. You can set up these web services with some minor configuration after the installation.

To configure the ad hoc pricing web services, follow these steps:

1. Navigate to the `$FIC_HOME/ficweb/webroot/WEB-INF/classes` directory.
2. Open the `ofsaaws.properties` file.
3. Replace the `<infodom name>` and `<userid>` (with admin access) and save it.
4. Open the `ofsaawsClient.properties` file and enter the OFSAA URL.
5. Rebuild the `.war` file and deploy it.

URL patterns for ad hoc web-services are:

```
http://<ip>:<port>/<context>/rest-api/ftpPcdRestservice/v1/getPricing
```

```
http://<ip>:<port>/<context>/rest-api/ftpPcdRestservice/v1/getPricingData
```

7.11 Changes in .profile file for Solaris Operating System

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

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

For example:

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

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

For example:

```
LD_LIBRARY_PATH=/opt/SunProd/studio12u6/developerstudio12.5/lib/compilers/CCgcc/lib/sparcv9:$LD_LIBRARY_PATH
```

7.12 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 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.
8	Configure and deploy the OFSAAI web services.
9	Enable the parallel execution of DML statements.
10	Configure the message details in the Forms Designer.
11	Clear the application cache.
12	Configure the password changes.
13	Configure the Java Virtual Machine.
14	Configure the internal service (Document Upload/Download).
18	Migrate the Excel upload functionality.
19	Remove the OFSAA Infrastructure.

8 Upgrade

Topics:

- [Upgrade Scenarios](#)
- [Upgrade from Release 8.0.7.x.0 of OFS PFT 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](#)

8.1 Upgrade Scenarios

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

ATTENTION

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

Table 18: Upgrade Scenarios

Scenario	Upgrade Instructions
Upgrade from OFS PFT Release v8.0.7.x.0 on AIX or Solaris x86 Operating System	Release v8.1.0.0.0 of OFS PFT 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.
<p>Upgrade from a Release Before 8.0.6.1.0</p> <p>In this scenario, you are upgrading the application pack from Release 8.0.6.1.0 or later to Release 8.1.0.0.0.</p> <p>Example: You are on release 8.0.7.0.0 and now want to upgrade to Release 8.1.0.0.0.</p>	<ol style="list-style-type: none"> 1. Upgrade to 8.0.6.1.0 or later. 2. Clone your existing environment to the 8.1.0.0.0 OFSAA Technology Matrix. 3. Upgrade from 8.0.6.1.0 to 8.1.0.0.0. 4. Run the Environment Check Utility tool and ensure that the hardware and software requirements are installed as per the Tech Stack. 5. Trigger the Release 8.1.0.0.0 installation.

Scenario	Upgrade Instructions
<p>Upgrade an Already Installed Application Pack from a Previous Release (8.0.6.1.0 or Later)</p> <p>Example: You are using an application pack in release 8.0.7.0.0 and now want to upgrade it to Release 8.1.0.0.0.</p>	<ol style="list-style-type: none"> 1. Run the Environment Check Utility tool and ensure that the hardware and software requirements are installed as per the OFSAA Technology Matrix. 2. Clone your existing environment to the 8.1.0.0.0 OFSAA Technology Matrix. 3. Update the Silent.props file present in the Release 8.1.0.0.0 pack. 4. Update the OFS_PFT_PACK.xml file to enable ONLY the existing installed applications. 5. Trigger the Release 8.1.0.0.0 installation.
<p>Install a New Application on an Existing OFSAA Instance from the Same Pack</p> <p>You have installed some applications from the Release 8.1.0.0.0 pack; in the future, you decide to include other applications from the same pack.</p> <p>Example: You have installed PFT and FTP applications using the PFT Pack installer 8.1.x. Later, you decide to license IPA and RPA applications and want to install them using the same PFT Pack installer 8.1.x.</p>	<p>If the schema creator output file (OFS_PFT_SCHEMA_OUTPUT.xml) EXISTS:</p> <ol style="list-style-type: none"> 1. Update the OFS_PFT_PACK.xml file to disable the existing applications and enable the newly licensed applications. 2. Update the Silent.props file present in the Release 8.1.x pack ONLY for the newly licensed applications. 3. Trigger the Release 8.1.0.0.0 installation. <p>If the schema creator output file DOES NOT EXIST:</p> <ol style="list-style-type: none"> 1. Run the schema creator utility. ATTENTION: While defining the schema details for the applications, provide the same schema details exactly given in the previous installation. The output file (OFS_PFT_SCHEMA_OUTPUT.xml) is generated as a result of the schema creation process. 2. Update the OFS_PFT_PACK.xml file to disable the existing applications and enable the newly licensed applications. 3. Update the Silent.props file present in the Release 8.1.x pack ONLY for the newly licensed applications. 4. Trigger the installation. NOTE: Do not update the OFSAAI_InstallConfig.xml file.
<p>Install a New Application Pack on an Existing OFSAA Instance</p> <p>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.</p> <p>Example: OFS PFT Pack is already installed and now you want to install OFS ALM Pack.</p>	<ol style="list-style-type: none"> 1. Run the schema creator utility ONLY for the new pack. 2. Update the OFS_PFT_PACK.xml file for the newly licensed pack. 3. Update the Silent.props file of the newly licensed pack. 4. Trigger the Release 8.1.0.0.0 installation.

Scenario	Upgrade Instructions
<p>Upgrade an Already Installed 8.0.6.1.0 or Later Application and Add New Applications From the Same Pack</p> <p>You have two applications from a pack on 8.0.6.1.0 or later. You want two new applications from the same pack on 8.1.0.0.0.</p> <p>Example: You have installed PFT and FTP applications from Release 8.0.6.1.0. Now you want to install IPA and RPA of Release 8.1.0.0.0.</p>	<ol style="list-style-type: none"> 1. Run the Environment Check Utility tool and ensure that the hardware and software requirements are installed as per the OFSAA Technology Matrix. 2. Clone your existing environment to the 8.1.0.0.0 OFSAA Technology Matrix. 3. Run the schema creator utility. <p>ATTENTION: While defining the schema details for the newly licensed applications, provide the same schema details exactly as given in the previous installation. The output file <code>OFS_PFT_SCHEMA_OUTPUT.xml</code> is generated as a result of the schema creation process.</p> 4. Update the OFS_PFT_PACK.xml file to enable ONLY the newly licensed applications. 5. Update the Silent.props file for the sections related to the newly licensed applications. 6. Trigger the installer. (Do not update the <code>OFSAAI_InstallConfig.xml</code> file). <p>This process upgrades the existing applications and installs the newly licensed applications.</p>

8.2 Upgrade from Release 8.0.7.x.0 of OFS PFT on AIX or Solaris x86 Operating System

Release v8.1.0.0.0 of OFS PFT 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.

8.3 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.

ATTENTION The minimum supported version is 8.0.6.1.0. If upgrading from a release before 8.0.6.1.0, then first upgrade to 8.0.6.1.0 or later. After this step, you can upgrade to 8.1.0.0.0 or later.

1. Back up the OFSAA schemas from the Oracle Database server.
2. Backup the following environment files from the `OFS_PFT_PACK>/schema_creator/conf` directory:
 - `OFS_PFT_PACK.xml`
 - `OFS_PFT_SCHEMA_IN.xml`

- OFSAAI_InstallConfig.xml
3. See the [OFSAA Technology 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 and Configuration Guide](#).
 5. Take a back up of the FSI_M_OBJECT_DEFINITION_TL table by running the following SQL script:

[PFT_PRE_UPGRADE_81.sql](#)
 6. If you have applied the Language Pack for Release 8.0.7.2.0, then run the following SQL script before upgrading to Release 8.1.

[LP_PATCH_PRE_810_UPGRADE_31413699.sql](#)
 7. If you are uploading the packaged data model with the installer, execute the following script in the atomic schema:

```

-----
DECLARE
    tbl_check NUMBER;
BEGIN
    Select count(*) into tbl_check from user_tables where
    table_name='FSI_IRCS';
    IF( tbl_check=1) THEN
        for i in (SELECT CONSTRAINT_NAME, TABLE_NAME FROM USER_CONSTRAINTS
        WHERE R_CONSTRAINT_NAME = (SELECT CONSTRAINT_NAME FROM
        USER_CONSTRAINTS WHERE TABLE_NAME='FSI_IRCS' AND
        CONSTRAINT_TYPE='P'))
    LOOP
        execute immediate 'ALTER TABLE '||i.table_name||' DISABLE CONSTRAINT
        '||i.constraint_name||'';
    end loop;
        execute immediate 'ALTER TABLE FSI_CURRENCIES DROP CONSTRAINT
        FK_FSI_CURRENCIES_2';
    END IF;
EXCEPTION
WHEN OTHERS THEN
    dbms_output.put_line(sqlerrm);
END;
/

```

8. Run the [PA 8.1 PRE UPGRADE SCRIPT.sql](#) before upgrading the IPA, RPA, and EFPA applications.

8.4 Upgrade from a Release Before 8.0.6.1.0

You are upgrading from a release before 8.0.6.1.0:

1. Upgrade to 8.0.6.1.0 or later. For more information, see the OFS Profitability Application Pack Installation Guide, Release 8.0.6.1.0.
2. Upgrade from 8.0.6.1.0 to 8.1.0.0.0. For more information, see [Upgrade from a Previous Release \(8.0.6.1.0 or Later\)](#).

NOTE The minimum supported version is 8.0.6.1.0.

8.5 Upgrade an Already Installed Application Pack From 8.0.6.1.0 or Later

You are upgrading the application pack from Release 8.0.6.1.0 or later to Release 8.1.0.0.0.

Example: You are on release 8.0.7.0.0 and now want to upgrade to Release 8.1.0.0.0.

NOTE If upgrading from a release before 8.0.6.1.0, then first upgrade to 8.0.6.1.0 or later. To upgrade to 8.0.6.1.0, see the installation guides at [OFS Profitability Application Pack Installation Guide](#).

8.5.1 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 Guides for:

- [Release 8.0.x](#)
- [Release 8.1.x](#)

8.5.2 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.

8.5.3 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_PACK/appsLibConfig/conf` directory.
2. Open the `Silent.props` file and edit only the following parameters:

Table 19: Parameters for the Silent.props File

Property Name	Description of Property	Permissible Values	Comments
UPLOAD_MODEL	Whether you want to perform the Model Upload.	0: No 1: Yes	Mandatory
MODEL_TYPE	The released data model or a customized data model.	0: Released 1: Customized	Mandatory only if you want to upload the data model.
DATAMODEL	The path for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.
DM_DIRECTORY	The file name for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.

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.

NOTE In case of an upgrade, first, upgrade to 8.0.6.1.0 or later. To upgrade to 8.0.6.1.0, see the installation guides at [OFS Profitability Application Pack Installation Guide](#).

8.5.4 Update the OFS_PFT_PACK.xml File

Update the OFS_PFT_PACK.xml file. Enable only the existing installed applications.

The OFS_PFT_PACK.xml file contains details of the various products that are packaged together in the OFS PFT applications 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 OFS PFT applications pack, it is mandatory to update this file.

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

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

Figure 24: Sample OFS_PFT_PACK.xml File

```

<APP_PACK_CONFIG>
  <APP_PACK_ID>OFS_FTP_PACK</APP_PACK_ID>
  <APP_PACK_NAME>Financial Services Funds Transfer Pricing Pack</APP_PACK_NAME>
  <APP_PACK_DESCRIPTION>Pack for Funds Transfer Pricing in the Banking and Financial Services Domain
</APP_PACK_DESCRIPTION>
  <VERSION>8.1.1.0.0</VERSION>
  <APP>
    <APP_ID PREREQ="" DEF_SEL_FLG="YES" ENABLE="YES">OFS_AAI</APP_ID>
    <APP_NAME>Financial Services Analytical Applications Infrastructure</APP_NAME>
    <APP_DESCRIPTION>Base Infrastructure for Analytical Applications</APP_DESCRIPTION>
    <VERSION>8.1.1.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_FTP</APP_ID>
    <APP_NAME>Financial Services Funds Transfer Pricing</APP_NAME>
    <APP_DESCRIPTION>Application for Funds Transfer Pricing</APP_DESCRIPTION>
    <VERSION>8.1.1.0.0</VERSION>
  </APP>
</APP_PACK_CONFIG>

```

Table 20: OFS_PFT_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. For example, OFS_IPA and OFS_RPA in the preceding illustration.	Set this attribute-value to YES for every APP_ID which you want to install or upgrade.

8.5.5 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 25: 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_bconfig81t. 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.StandardFileManager).
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

```

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

Figure 26: OFSAA Processing Tier FTP/SFTP Password Prompt

```

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

Please enter Infrastructure FTP/SFTP password : █

```

4. The OFSAA License is displayed. Enter Y and proceed.

Figure 27: Accept the OFSAA License Agreement

```

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

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

```

5. The OFS AAI installation begins.

Figure 28: OFS AAI Installation

```

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

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

Launching installer...

Preparing SILENT Mode Installation...

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

Installing...

[-----]
[-----]

```

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.

8.5.6 Verify the Log File Information

See the following log files for more information:

- Pack_Install.log file in the OFS_PFT/logs/ directory
- Infrastructure installation log file(s) located in the OFS_PFT_PACK/OFS_AAI/logs/ directory
- OFSAAInfrastructure_Install.log located in the \$FIC_HOME directory

- Model Upload log files at the location specified for the parameters `APPFTP_LOG_PATH` and `DBFTP_LOG_PATH` in the `Silent.props` file.
- `OFS_PFT_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_PFT/logs` directory
- `OFS_FTP_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_FTP/logs` directory
- `OFS_EFPA_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_EFPA/logs` directory
- `OFS_IPA_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_IPA/logs` directory
- `OFS_RPA_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_RPA/logs` directory

8.5.7 Post Upgrade Steps

Follow the steps mentioned in the [Post Upgrade Steps](#) section.

8.6 Install a New Application on an Existing OFSAA Instance from the Same Pack

You have installed some applications from the Release 8.1.0.0.0 pack; in the future, you decide to install other applications from the same pack.

Example: You have installed PFT and FTP applications using the PFT Pack installer 8.1.x. Later, you decide to license IPA and RPA applications and want to install them using the same PFT Pack installer 8.1.x.

NOTE You must check the [Compatibility Matrix](#) to see if the new application to be installed is compatible with the installed applications.

8.6.1 If the schema creator output file (`OFS_PFT_SCHEMA_OUTPUT.xml`) Exists

8.6.1.1 Update the `OFS_PFT_PACK.xml` file

Update the `OFS_PFT_PACK.xml` file to disable the existing applications and enable the newly licensed applications.

The `OFS_PFT_PACK.xml` file contains details of the various products that are packaged in the OFS PFT Applications Pack.

This section provides information about the various tags/ parameters available in the file and the values you must update. Prior to installing the OFS PFT Applications Pack, it is mandatory to update this file.

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

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

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

Figure 29: Sample OFS_PFT_PACK.xml File

```

<APP_PACK_CONFIG>
  <APP_PACK_ID>OFS_PFT_PACK</APP_PACK_ID>
  <APP_PACK_NAME>Financial Services Profitability Applications Pack
</APP_PACK_NAME>
  <APP_PACK_DESCRIPTION>Applications for Profitability in the Banking and
Financial Services 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</APP_ID>
    <APP_NAME>Financial Services Profitability Management</APP_NAME>
    <APP_DESCRIPTION>Application for Profitability Management</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_FTP</APP_ID>
    <APP_NAME>Financial Services Funds Transfer Pricing</APP_NAME>
    <APP_DESCRIPTION>Application for Funds Transfer Pricing</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_IPA</APP_ID>
    <APP_NAME>Financial Services Institutional Performance Analytics</APP_NAME>
    <APP_DESCRIPTION>Application for Institutional Performance Analytics
</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_RPA</APP_ID>
    <APP_NAME>Financial Services Retail Performance Analytics</APP_NAME>
    <APP_DESCRIPTION>Application for Retail Performance Analytics
</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_EFPA</APP_ID>
    <APP_NAME>Financial Services Enterprise Financial Performance Analytics
</APP_NAME>
    <APP_DESCRIPTION>Application for Enterprise Financial Performance
Analytics</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
</APP_PACK_CONFIG>

```

Table 21: OFS_PFT_PACK.xml File Parameters

Tag Name	Attribute Name	Value you must enter	Comments
APP_ID	ENABLE	<ul style="list-style-type: none"> YES, for applications you want to install. For example, OFS_IPA and OFS_RPA in the preceding illustration. NO, for applications that are already installed. For example, OFS_FTP and OFS_PFT in the preceding illustration. 	Set this attribute-value to YES for every APP_ID which you want to install or upgrade.

8.6.1.2 Update the Silent.props File

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_PACK/appsLibConfig/conf` directory.
2. Open the `Silent.props` file and edit only the following parameters:

Table 22: Parameters for the Silent.props File

Property Name	Description of Property	Permissible Values	Comments
UPLOAD_MODEL	Whether you want to perform the Model Upload.	0: No 1: Yes	Mandatory
MODEL_TYPE	The released data model or a customized data model.	0: Released 1: Customized	Mandatory only if you want to upload the data model.
DATAMODEL	The path for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.
DM_DIRECTORY	The file name for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.

8.6.2 Trigger the Installation

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

```
ALTER TABLE CONFIGURATION MODIFY PARAMNAME VARCHAR2 (100 CHAR);
```

4. 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 30: 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_bconfig81t. 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
```

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

Figure 31: OFSAA Processing Tier FTP/SFTP Password Prompt


```

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

Please enter Infrastructure FTP/SFTP password : █

```

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

Figure 32: Accept the OFSAA License Agreement

```

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

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

```

7. The OFS AAI installation begins.

Figure 33: OFS AAI Installation


```

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

Please enter password for default Infrastructure administrator user SYSADMIN:

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

Please enter password for default Infrastructure authorizer user SYSAUTH:

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

Launching installer...

Preparing SILENT Mode Installation...

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

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

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

```

Data Model Upload may take several hours to complete.

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

8.6.2.1 Verify the Log File Information

See the following logs files for more information:

- OFS_PFT_PACK_installation.log file in the OFS_PFT_PACK/OFS_PFT/logs directory
- Pack_Install.log file in the OFS_PFT/logs/ directory
- Infrastructure installation log file(s) located in the OFS_PFT_PACK/OFS_AAI/logs/ directory
- OFSAAInfrastucture_Install.log located in the \$FIC_HOME directory
- Model Upload log files at the location specified for the parameters APPFTP_LOG_PATH and DBFTP_LOG_PATH in the Silent.props file.

8.6.3 Post Upgrade Steps

Follow the steps mentioned in the [Post Upgrade Steps](#) section.

8.6.4 If the Schema Creator Output File Does not Exist

When executing the Schema Creator Utility during the installation of a subsequent Applications Pack, you can choose to install the pack either on the same Information Domain /Atomic Schema of the

existing application pack or on a new Information Domain / Atomic Schema. You can execute the Schema Creator Utility either in the Online or Offline modes.

1. Execute the Schema Creator Utility, by following 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_SCHEMA_OUTPUT.xml) is generated as a result of the schema creation process.

2. Edit the file: OFS_PFT_PACK/schema_creator/conf/OFS_PFT_SCHEMA_IN.xml in a text editor. See [Configure the OFS PFT PACK.xml File](#)
 - a. for values to modify in the .XML file.
 - b. Execute the utility.
For Example: `./osc.sh -s`
3. Follow the steps given in the section [Execute the Schema Creator Utility in Offline Mode](#).

8.7 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. For example, OFS PFT Pack is already installed and now you want to install OFS ALM Pack.

8.7.1 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_SCHEMA_OUTPUT.xml) is generated as a result of the schema creation process.

- a. Edit the file: OFS_PFT_PACK/schema_creator/conf/OFS_PFT_SCHEMA_IN.xml in a text editor. See [Configure the OFS PFT PACK.xml File](#) for values to modify in the .XML file.
 - b. Execute the utility.
For Example: `./osc.sh -s`
2. Follow the steps given in the section [Configure the OFS PFT_SCHEMA_IN.xml File](#). Configure OFSAAI_InstallConfig.xml File is not required.

8.7.2 Update the OFS_PFT_PACK.xml File for the Newly Licensed Pack

The OFS_PFT_PACK.xml file holds details on the various products that are packaged in the OFS PFT applications 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 OFS PFT pack, it is mandatory to update this file.

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

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

Figure 34: Sample OFS_PFT_PACK.xml File

```

<APP_PACK_CONFIG>
  <APP_PACK_ID>OFS_PFT_PACK</APP_PACK_ID>
  <APP_PACK_NAME>Financial Services Profitability Applications Pack
</APP_PACK_NAME>
  <APP_PACK_DESCRIPTION>Applications for Profitability in the Banking and
Financial Services 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</APP_ID>
    <APP_NAME>Financial Services Profitability Management</APP_NAME>
    <APP_DESCRIPTION>Application for Profitability Management</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_FTP</APP_ID>
    <APP_NAME>Financial Services Funds Transfer Pricing</APP_NAME>
    <APP_DESCRIPTION>Application for Funds Transfer Pricing</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_IPA</APP_ID>
    <APP_NAME>Financial Services Institutional Performance Analytics</APP_NAME>
    <APP_DESCRIPTION>Application for Institutional Performance Analytics
</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_RPA</APP_ID>
    <APP_NAME>Financial Services Retail Performance Analytics</APP_NAME>
    <APP_DESCRIPTION>Application for Retail Performance Analytics
</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_EFPA</APP_ID>
    <APP_NAME>Financial Services Enterprise Financial Performance Analytics
</APP_NAME>
    <APP_DESCRIPTION>Application for Enterprise Financial Performance
Analytics</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
</APP_PACK_CONFIG>

```

Table 23: OFS_PFT_PACK.xml File Parameters

Tag Name	Attribute Name	Value you must enter	Comments
APP_ID	ENABLE	<ul style="list-style-type: none"> YES, for applications you want to install. For example: OFS_ALM in the preceding illustration. NO, for applications that are already installed. 	Set this attribute-value to YES for every APP_ID which you want to install or upgrade.

8.7.3 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_PACK/appsLibConfig/conf` directory.
2. Open the `Silent.props` file and edit only the following parameters:

Table 24: Parameters for the Silent.props File

Property Name	Description of Property	Permissible Values	Comments
UPLOAD_MODEL	Whether you want to perform the Model Upload.	0: No 1: Yes	Mandatory
MODEL_TYPE	The released data model or a customized data model.	0: Released 1: Customized	Mandatory only if you want to upload the data model.
DATAMODEL	The path for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.
DM_DIRECTORY	The file name for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.

8.7.4 Trigger the Installation

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


```
ALTER TABLE CONFIGURATION MODIFY PARAMNAME VARCHAR2 (100 CHAR);
```
4. 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 35: 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_bconfig81t. 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

```

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

Figure 36: OFSAA Processing Tier FTP/SFTP Password Prompt

```

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

Please enter Infrastructure FTP/SFTP password : █

```

6. The OFSAA License is displayed. Enter Y and proceed.

Figure 37: Accept the OFSAA License Agreement

```

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

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

```

7. The OFS AAI installation begins.

Figure 38: OFS AAI Installation

```

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

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

Launching installer...

Preparing SILENT Mode Installation...

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

Installing...

[-----]
[-----]

```

Data Model Upload may take several hours to complete.

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

8.7.5 Verify the Log File Information

See the following logs files for more information:

- Pack_Install.log file in the OFS_PFT/logs/ directory
- Infrastructure installation log file(s) located in the OFS_PFT_PACK/OFS_AAI/logs/ directory
- OFSAAInfrastructure_Install.log located in the \$FIC_HOME directory

- Model Upload log files at the location specified for the parameters `APPFTP_LOG_PATH` and `DBFTP_LOG_PATH` in the `Silent.props` file.
- `OFS_PFT_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_PFT/logs` directory
- `OFS_FTP_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_FTP/logs` directory
- `OFS_EFPA_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_EFPA/logs` directory
- `OFS_IPA_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_IPA/logs` directory
- `OFS_RPA_PACK_installation.log` file in the `OFS_PFT_PACK/OFS_RPA/logs` directory

8.7.6 Post Upgrade Steps

Follow the steps mentioned in the [Post Upgrade Steps](#) section.

8.8 Upgrade an Already Installed 8.0.6.1.0 or Later Application and Add New Applications From the Same Pack

Let's say you have two applications from a pack on 8.0.6.1.0. Now you want two new applications from the same pack on 8.1.0.0.0.

For this, you must upgrade existing applications on 8.0.6.1.0 or later to 8.1.0.0.0, and then install additional applications from the same pack

Example: You have installed PFT and FTP applications from Release 8.0.6.1.0. Now you want to install IPA and RPA of Release 8.1.0.0.0.

8.8.1 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 Guides for:

- [Release 8.0.x](#)
- [Release 8.1.x](#)

8.8.2 If the schema creator output file (`OFS_PFT_SCHEMA_OUTPUT.xml`) Exists

ATTENTION

While defining the schema details for the newly licensed applications, provide the same schema details exactly as given in the previous installation. The output file `OFS_PFT_SCHEMA_OUTPUT.xml` is generated as a result of the schema creation process.

8.8.2.1 Update the OFS_PFT_PACK.xml file

Update the `OFS_PFT_PACK.xml` file to disable the existing applications and enable the newly licensed applications.

The `OFS_PFT_PACK.xml` file contains details of the various products that are packaged together in the OFS PFT applications.

This section provides information about the various tags/ parameters available in the file and the values that must be updated. Prior to installing the OFS PFT applications pack, it is mandatory to update this file.

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

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

Figure 39: Sample OFS_PFT_PACK.xml File

```

<APP_PACK_CONFIG>
  <APP_PACK_ID>OFS_PFT_PACK</APP_PACK_ID>
  <APP_PACK_NAME>Financial Services Profitability Applications Pack
</APP_PACK_NAME>
  <APP_PACK_DESCRIPTION>Applications for Profitability in the Banking and
Financial Services 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</APP_ID>
    <APP_NAME>Financial Services Profitability Management</APP_NAME>
    <APP_DESCRIPTION>Application for Profitability Management</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_FTP</APP_ID>
    <APP_NAME>Financial Services Funds Transfer Pricing</APP_NAME>
    <APP_DESCRIPTION>Application for Funds Transfer Pricing</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_IPA</APP_ID>
    <APP_NAME>Financial Services Institutional Performance Analytics</APP_NAME>
    <APP_DESCRIPTION>Application for Institutional Performance Analytics
</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_RPA</APP_ID>
    <APP_NAME>Financial Services Retail Performance Analytics</APP_NAME>
    <APP_DESCRIPTION>Application for Retail Performance Analytics
</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_EFPA</APP_ID>
    <APP_NAME>Financial Services Enterprise Financial Performance Analytics
</APP_NAME>
    <APP_DESCRIPTION>Application for Enterprise Financial Performance
Analytics</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
</APP_PACK_CONFIG>

```

Table 25: OFS_PFT_PACK.xml File Parameters

Tag Name	Attribute Name	Value you must enter	Comments
APP_ID	ENABLE	<ul style="list-style-type: none"> YES, for applications you want to install. For example, OFS_IPA and OFS_RPA in the preceding illustration. NO, for applications that are already installed. For example, OFS_FTP and OFS_PFT in the preceding illustration. 	Set this attribute-value to YES for every APP_ID which you want to install or upgrade. ATTENTION: An application once enabled cannot be disabled. However, an Application not enabled during installation can be enabled later through the Administration UI.

8.8.2.2 Update the Silent.props File

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 them 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_PACK/appsLibConfig/conf` directory.
2. Open the `Silent.props` file and edit only the following parameters:

Table 26: Parameters for the Silent.props File

Property Name	Description of Property	Permissible Values	Comments
UPLOAD_MODEL	Whether you want to perform the Model Upload.	0: No 1: Yes	Mandatory
MODEL_TYPE	The released data model or a customized data model.	0: Released 1: Customized	Mandatory only if you want to upload the data model.
DATAMODEL	The path for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.
DM_DIRECTORY	The file name for the customized data model.	Not Applicable	Mandatory only if you want to upload the customized data model.

8.8.3 Update the OFS_PFT_PACK.xml File

Update the `OFS_PFT_PACK.xml` File. Enable only the newly licensed applications.

The `OFS_PFT_PACK.xml` file contains details of the various products that are packaged in the OFS PFT applications pack.

This section provides information about the various tags/ parameters available in the file and the values that must be updated. Prior to installing the OFS PFT applications pack, it is mandatory to update this file.

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

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

Figure 40: Sample OFS_PFT_PACK.xml File

```

<APP_PACK_CONFIG>
  <APP_PACK_ID>OFS_PFT_PACK</APP_PACK_ID>
  <APP_PACK_NAME>Financial Services Profitability Applications Pack
</APP_PACK_NAME>
  <APP_PACK_DESCRIPTION>Applications for Profitability in the Banking and
Financial Services 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</APP_ID>
    <APP_NAME>Financial Services Profitability Management</APP_NAME>
    <APP_DESCRIPTION>Application for Profitability Management</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_FTP</APP_ID>
    <APP_NAME>Financial Services Funds Transfer Pricing</APP_NAME>
    <APP_DESCRIPTION>Application for Funds Transfer Pricing</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_IPA</APP_ID>
    <APP_NAME>Financial Services Institutional Performance Analytics</APP_NAME>
    <APP_DESCRIPTION>Application for Institutional Performance Analytics
</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_RPA</APP_ID>
    <APP_NAME>Financial Services Retail Performance Analytics</APP_NAME>
    <APP_DESCRIPTION>Application for Retail Performance Analytics
</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
  <APP>
    <APP_ID PREREQ="OFS_AAI" ENABLE="">OFS_EFPA</APP_ID>
    <APP_NAME>Financial Services Enterprise Financial Performance Analytics
</APP_NAME>
    <APP_DESCRIPTION>Application for Enterprise Financial Performance
Analytics</APP_DESCRIPTION>
    <VERSION>8.1.0.0.0</VERSION>
  </APP>
</APP_PACK_CONFIG>

```

Table 27: OFS_PFT_PACK.xml File Parameters

Tag Name	Attribute Name	Value you must enter	Comments
APP_ID	ENABLE	<ul style="list-style-type: none"> YES for existing applications that you want to upgrade. For example, OFS_IPA and OFS_RPA in the preceding illustration.	Set this attribute-value to YES for every APP_ID which you want to install or upgrade.

8.8.4 Trigger the Installation

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

```
ALTER TABLE CONFIGURATION MODIFY PARAMNAME VARCHAR2 (100 CHAR);
```

- 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 41: 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
```

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

Figure 42: OFSAA Processing Tier FTP/SFTP Password Prompt

```

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

Please enter Infrastructure FTP/SFTP password : █

```

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

Figure 43: Accept the OFSAA License Agreement

```

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

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

```

8. The OFS AAI installation begins.

Figure 44: OFS AAI Installation

```

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

Please enter password for default Infrastructure administrator user SYSADMIN:

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

Please enter password for default Infrastructure authorizer user SYSAUTH:

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

Launching installer...

Preparing SILENT Mode Installation...

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

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

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

```

Data Model Upload may take several hours to complete.

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

8.8.5 Verify the Log File Information

See the following logs files for more information:

- Pack_Install.log file in the OFS_PFT/logs/ directory
- Infrastructure installation log file(s) located in the OFS_PFT_PACK/OFS_AAI/logs/ directory
- OFSAAInfrastructure_Install.log located in the \$FIC_HOME directory
- Model Upload log files at the location specified for the parameters APPFTP_LOG_PATH and DBFTP_LOG_PATH in the Silent.props file.
- OFS_PFT_PACK_installation.log file in the OFS_PFT_PACK/OFS_PFT/logs directory
- OFS_FTP_PACK_installation.log file in the OFS_PFT_PACK/OFS_FTP/logs directory
- OFS_EFPA_PACK_installation.log file in the OFS_PFT_PACK/OFS_EFPA/logs directory
- OFS_IPA_PACK_installation.log file in the OFS_PFT_PACK/OFS_IPA/logs directory
- OFS_RPA_PACK_installation.log file in the OFS_PFT_PACK/OFS_RPA/logs directory

8.8.6 Post Upgrade Steps

Follow the steps mentioned in the [Post Upgrade Steps](#) section.

8.9 Post Upgrade Steps

Perform the following steps after completing the upgrade.

8.9.1 Restoring the FSI_M_OBJECT_DEFINITION_TL Table

To restore the SHORT_DESC and LONG_DESC column values for the object types Allocation and Allocation Model in the FSI_M_OBJECT_DEFINITION_TL table, execute the following script in the ATOMIC schema:

[PFT_POST_UPGRADE_81.sql](#)

For more information, see the bug [32451035](#).

8.9.2 Remove ContextDocLoader from the web.xml File

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

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

```
-----  
<servlet>  
  <servlet-name>context</servlet-name>  
  <servlet-  
    class>com.ofs.fsapps.commonapps.core.summary.common.ContextDocLoade  
    r</servlet-class>  
  <load-on-startup>1</load-on-startup>  
</servlet>  
-----
```

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

8.9.3 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.

8.9.4 Post Upgrade Script for IPA, RPA, and EFPA

Run the [PA_8.1_POST_UPGRADE_SCRIPT.sql](#) after upgrading the IPA, RPA, and EFPA applications.

9 RPD/Catalog Deployment, D3, and Map View Configuration For OAS

Topics:

- [Deploying the Report Analytics](#)
- [Deploying D3 on the OBIEE Server](#)
- [Mapview Configuration for OBIEE](#)

9.1 Deploying Report Analytics

Topics:

- [Deploying OFS PA Pack Report Analytics \(RPD Files\)](#)
- [Deploying OFS PFT Pack Report Analytics \(Catalog Files\)](#)
- [Port OBIEE Artifacts to Oracle Analytics Server](#)
- [Post Installation Changes in the instanceconfig.xml File](#)

9.1.1 Deploying OFS PFT Pack Report Analytics (RPD Files)

To deploy Analytic Reports, follow these steps:

1. Copy the RPD files from the following locations for IPA, RPA, and EFPA applications:

Table 28: RPD Files

Application	File Name	Location
IPA	OFS_PA_Analytics.rpd	\$FIC_HOME/OFS_IPA_DASHBOARDS/12.2.1.4.0/datamodel
RPA	OFS_PA_Analytics.rpd	\$FIC_HOME/OFS_RPA_DASHBOARDS/12.2.1.4.0/datamodel
EFPA	OFS_EFPA_Analytics.rpd	\$FIC_HOME/OFS_EFPA_DASHBOARDS/12.2.1.4.0/datamodel

NOTE

It is recommended to merge the OFS_PA_Analytics.rpd and OFS_EFPA_Analytics.rpd files by creating fresh dummy.rpd files. You can then ignore the merge issues.

Keep the merged rpd as the base in order to avoid the merge errors.

2. Paste the copied RPD files in the Windows machine where the OBIEE Windows administration client or OAS Analytics client is installed and deploy. For more information on deployment, refer to your OBIEE 12c or OAS documentation.
3. Open the RPD files online with the default password.

NOTE

The RPD files are configured with a default password, which you will require to open for the first time. See the [MOS Doc ID: 2691681.1](#) for the password.

4. Configure the Connection Pool details according to the atomic schema.
5. Click the **File** menu and then click **Save**.
6. Click **Yes** on the pop-up message, “**Do you want to check global consistency?**”
7. Click **OK** to acknowledge the message, “**Consistency check didn't find any errors, warning, or best practices violations.**”

Warnings on consistency checks can be ignored.

9.1.2 Deploying OFS PFT Pack Report Analytics (Catalog Files)

To deploy the Catalog files, follow these steps:

1. Copy the Catalog files from the following locations for IPA, RPA, and EFPA applications:

Table 29: Catalog Files

Application	File Name	Location
IPA	OFS_IPA_Performance Reporting.catalog	\$FIC_HOME/OFS_IPA_DASHBOARDS/12.2.1.4.0/content/catalog
RPA	OFS_RPA_Performance Reporting.catalog	\$FIC_HOME/OFS_RPA_DASHBOARDS/12.2.1.4.0/content/catalog
EFPA	<ul style="list-style-type: none"> • OFS_EFPA_Management Reporting.catalog • OFS_EFPA_Financial Reporting.catalog 	\$FIC_HOME/OFS_EFPA_DASHBOARDS/12.2.1.4.0/content/catalog

2. Paste the copied catalog files in a local folder.
3. Open the analytics OBIEE URL-(<http://<ipaddress>:<port>/analytics>) and log in with the credentials.
4. Click the **Catalog** link available on the top right corner.
5. Click **Shared Folders** and then **Un-Archive**.
6. Browse the path where catalog files are copied in the local folder. Select each file and click **Open**. Then click **OK**. Repeat this for the remaining catalog files.
7. Click **Dashboard** and click on any of the reports to ensure that all the reports are available.

9.1.3 Port OBIEE Artifacts to Oracle Analytics Server

You can deploy the BI artifacts distributed with OFSAA on to Oracle Analytics Server (OAS).

For more information, see [Upgrade from Oracle Business Intelligence 12c](#) the documentation on how to deploy the BI artifacts distributed by OFSAA on OAS.

NOTE See the [MOS Doc ID 2648055.1](#) to confirm if your application or pack is certified for Oracle Analytics Server.

9.1.4 Post-Installation Changes in the instanceconfig.xml File

Do the following changes in the instanceconfig.xml file as post-installation changes:

1. Backup and edit the instanceconfig.xml file located at:

```
$ORACLE_HOME/user_projects/domains/bi/config/fmwconfig/biconfig/OBIPS
```

Table 30: Tags and Changes for instanceconfig.xml File

Tag to be changed	Changes
<Views>	<pre><Views> <Charts> <DefaultWebImageType>flash</DefaultWebImageType> </Charts> </Views></pre>
<Security>	<pre><Security> <CheckUrlFreshness>>false</CheckUrlFreshness> <EnableSavingContentWithHTML>>true</ EnableSavingContentWithHTML> </Security></pre>

2. Save and close the file.
3. Restart the presentation server for the changes to take effect.

9.2 Deploying D3 on the OBIEE Server

This section provides detailed steps to install and configure D3, a visualization framework, which is used in a few reports of IPA and RPA.

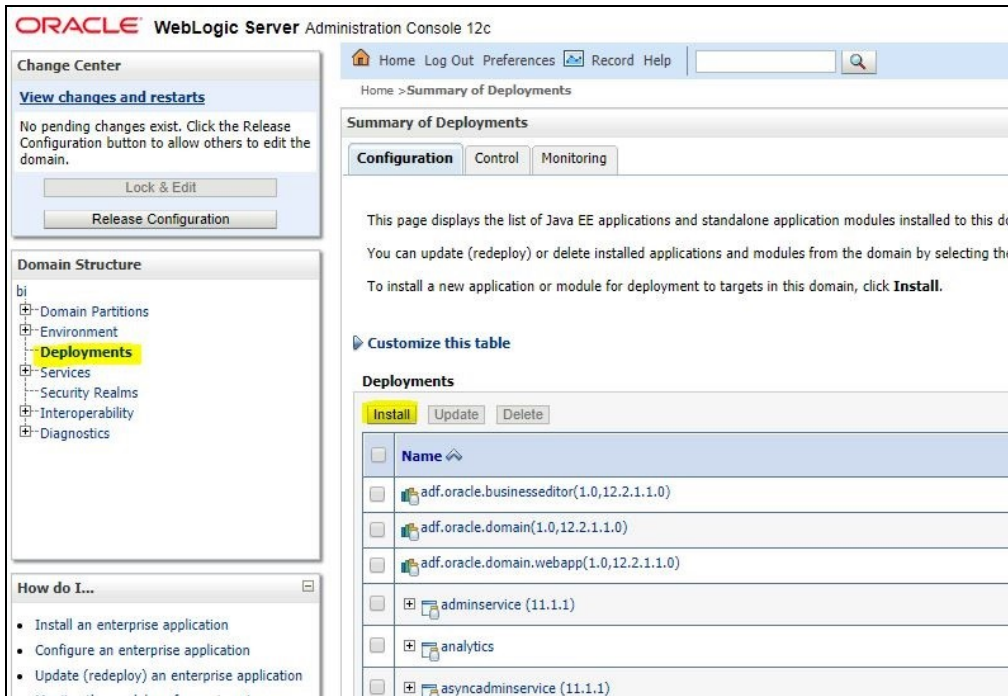
To deploy the D3 OBIEE server, follow these steps:

1. Copy the analyticsRes folder from \$FIC_HOME/OFS_IPA_DASHBOARDS directory to OBIEE Server at the following location:

```
$ORACLE_HOME/user_projects/domains/
```

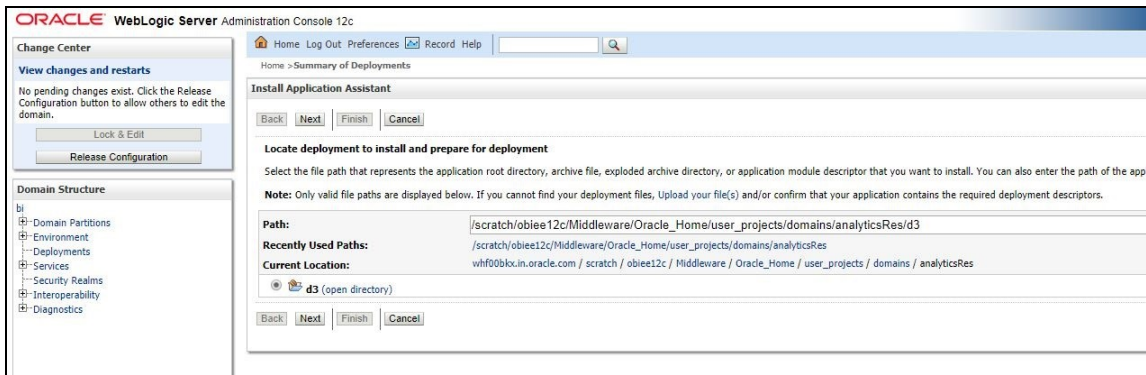
2. Log in to the Web Logic server, navigate to Deployments in your domain structure, and then click **Install**.

Figure 45: WebLogic Administration Console



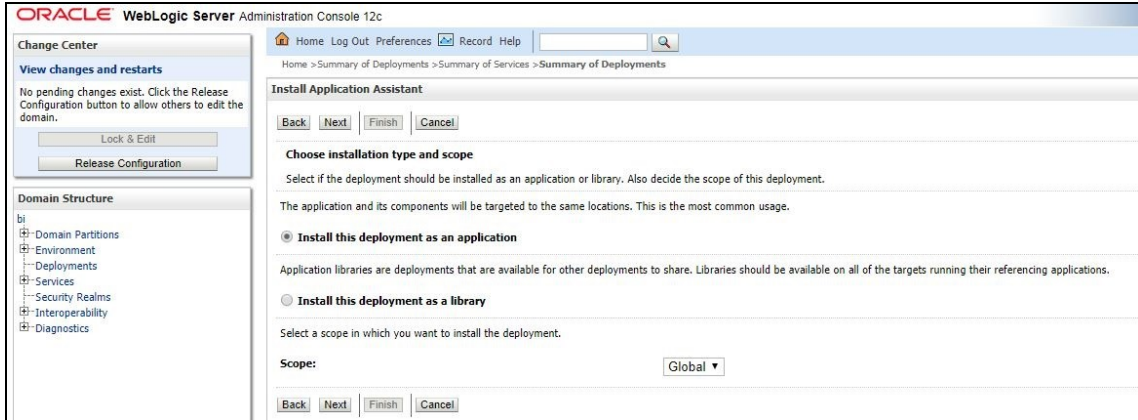
3. Paste the full path to the **d3** directory, select the check box next to **d3** (open directory), and click **Next**.

Figure 46: WebLogic Administration Console – Locale Deployment



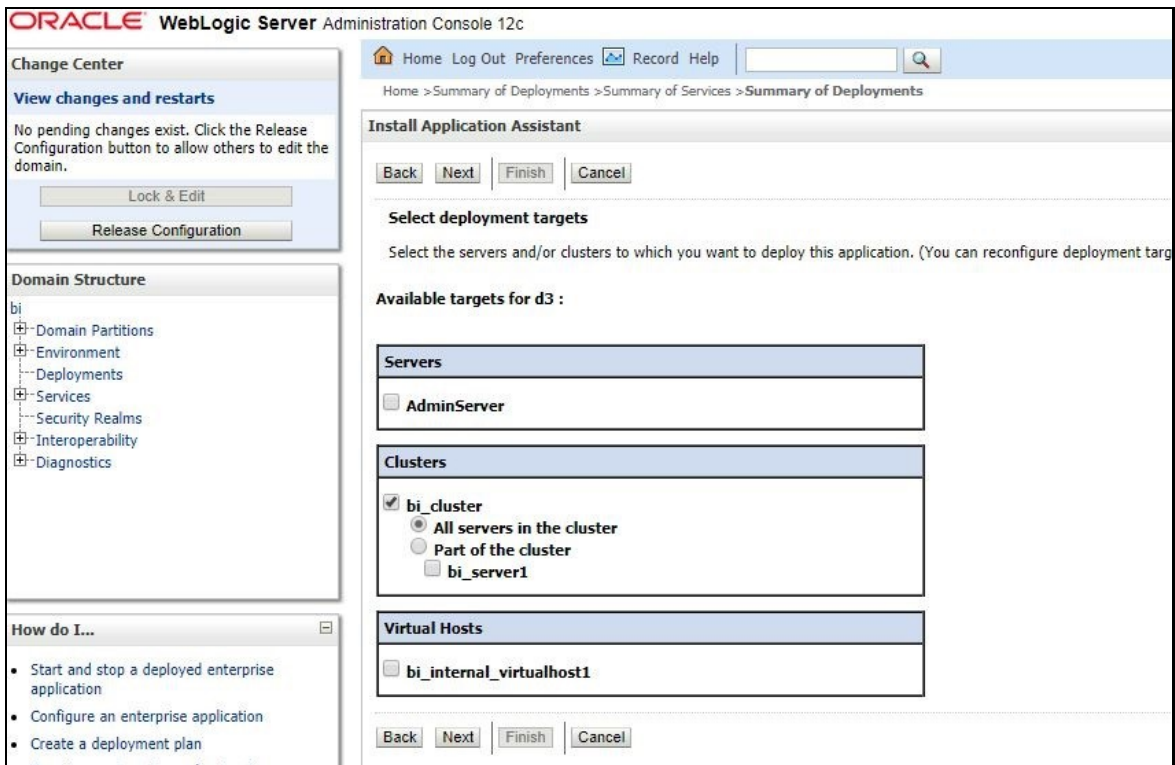
4. Select **Install this deployment as an application** and click **Next**.

Figure 47: WebLogic Administration Console – Installation Type Selection



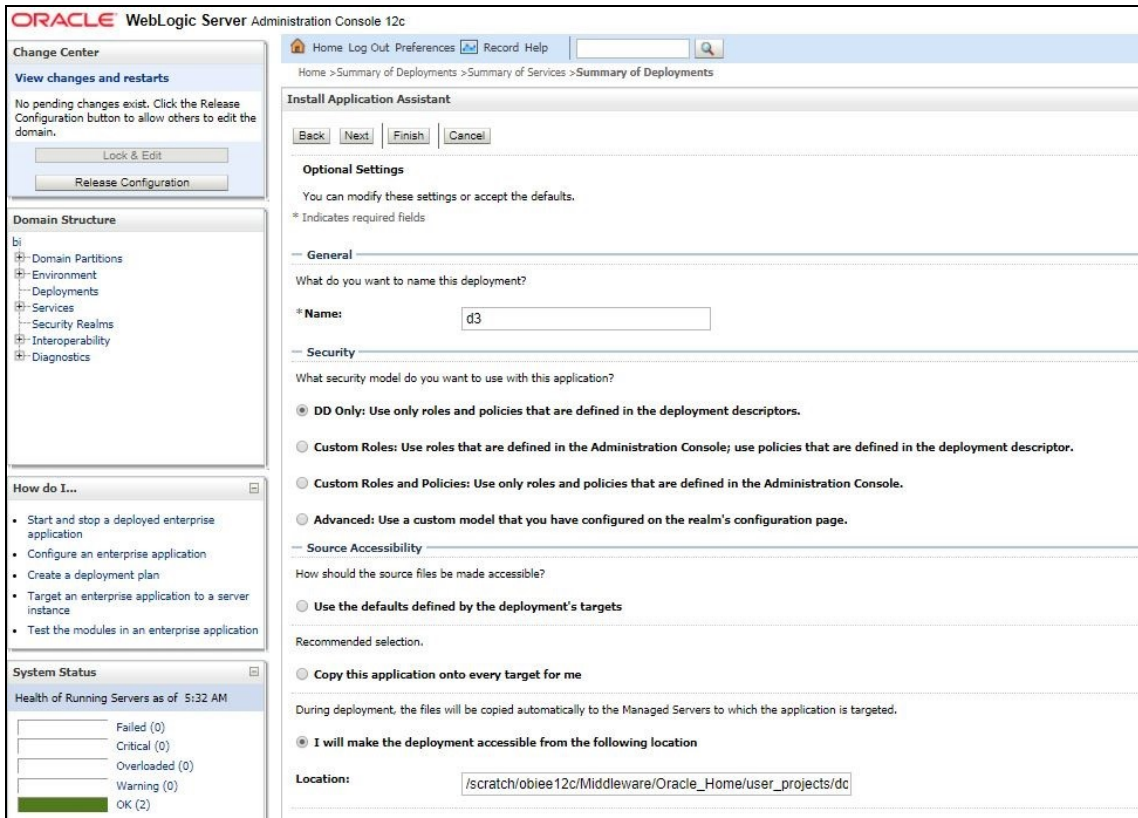
5. Click **bi_cluster**, and then select the **All servers in the cluster** option.

Figure 48: WebLogic Administration Console – Deployment Targets



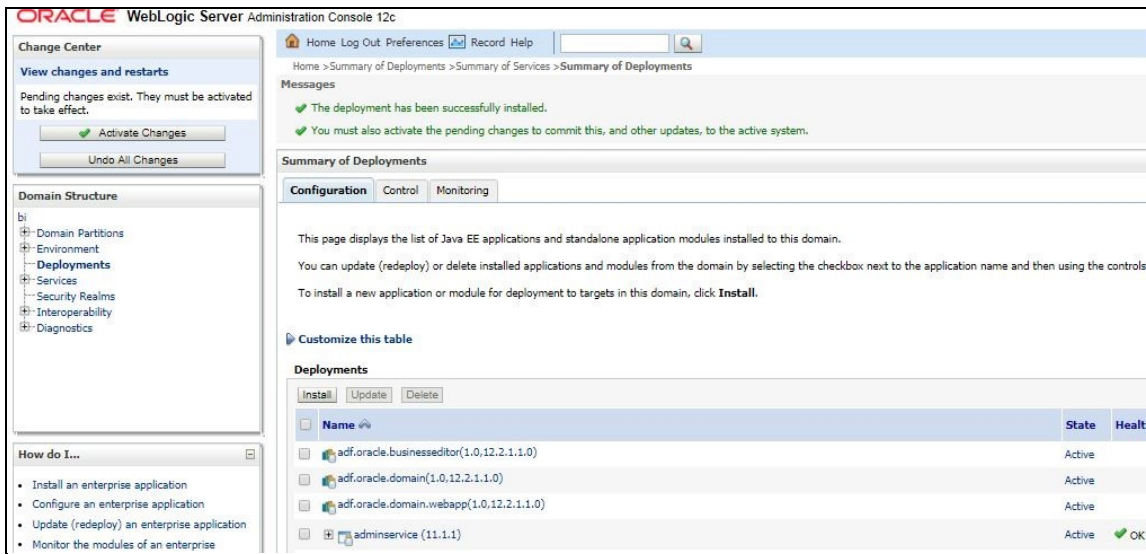
6. Select **I will make the deployment accessible from the following location** and click **Finish**.

Figure 49: WebLogic Administration Console – Optional Settings



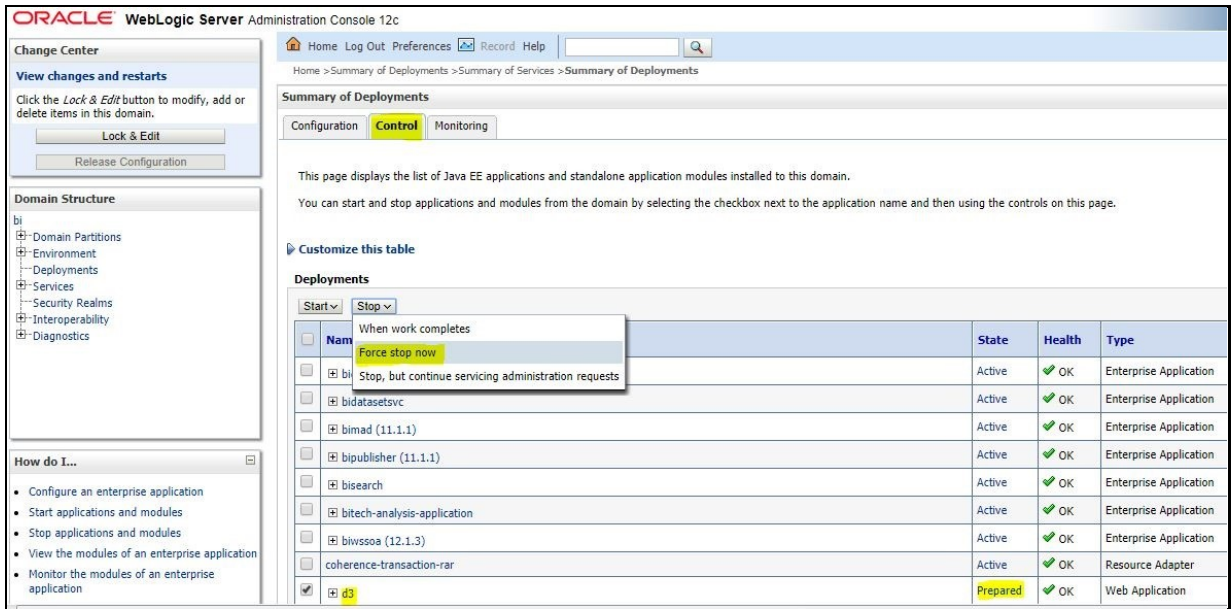
7. Click **Activate Changes**.

Figure 50: WebLogic Administration Console – Summary of Deployments



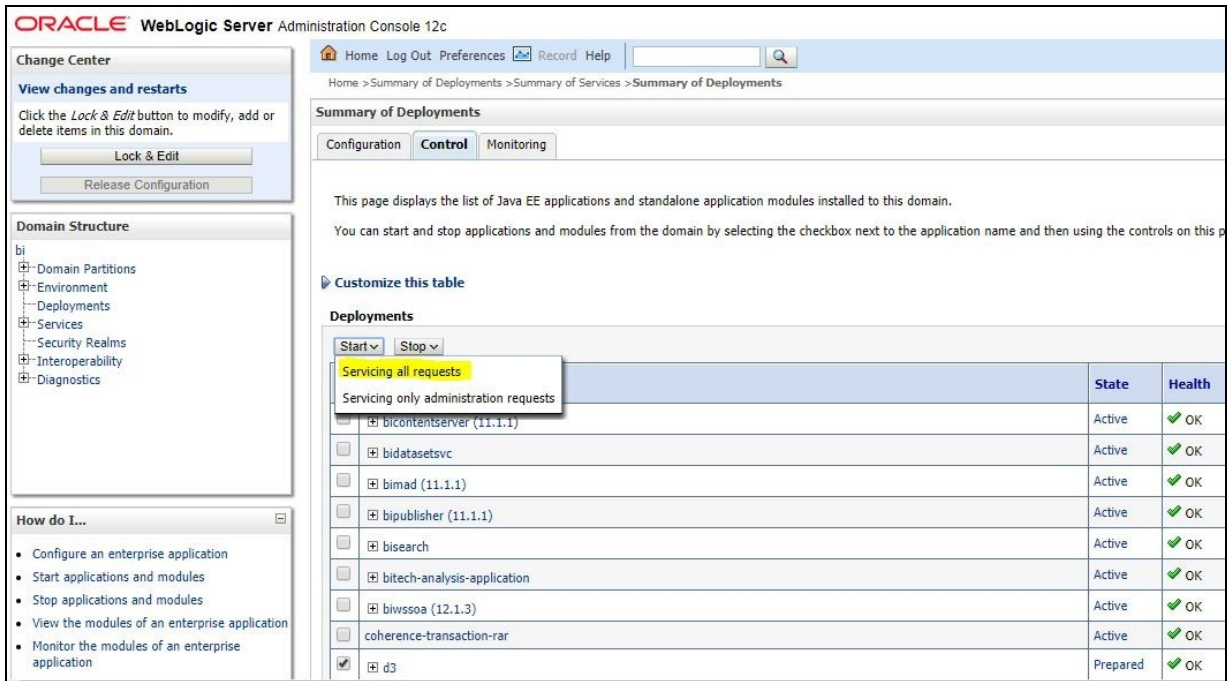
8. After activating the changes, the application will now be in a **Prepared** state. Click the **Control** tab. All the installed applications are displayed. Stop the application by selecting the check box next to it and then select **Force Stop Now** from the **Stop** menu.

Figure 51: WebLogic Administration Console – Customize the Deployed Applications



- Start the application by selecting the check box next to it and then select **Servicing all requests** from the **Start** menu.

Figure 52: WebLogic Administration Console – Customize the Deployed Applications



- The application will now change to the **Active** state and is ready to use.

9.3 Mapview Configuration for OBIEE

This section provides information about prerequisites, creating the mapviewer mvdemo2 data source, configuration edits, and starting the server.

This is a sample configuration working on sample data provided by mvdemo2.

Topics:

- [Prerequisites](#)
- [Creating the Mapviewer mvdemo2 Data source](#)
- [Loading FSI LOCATION MAP COORD for viewing mvdemo2 Maps](#)

9.3.1 Prerequisites

The mvdemo2 database dump can be imported only into an Oracle 12c database. If you have no option other than using the 11g version, contact OBIEE/Mapviewer Product Management.

9.3.2 Creating the Mapviewer mvdemo2 Data source

Ensure that you have a connection to the 12c Oracle database from the machine where your OBIEE platform is installed.

Create a mvdemo2 schema within that database for holding the mvdemo2 spatial data.

9.3.2.1 Downloading the Mapviewer mvdemo Database Dump

To download the Mapviewer mvdemo2 Database Dump, follow these steps:

1. Download and unzip the [mvdemo_naturalearth.zip](#) file that contains an Oracle Database export file named:

```
mvdemo_naturalearth.dmp
```

9.3.2.2 Creating mvdemo2 User

To create a mvdemo2 user, follow these steps:

1. Start an SQL*Plus session to the Oracle Database as a user with system or DBA privileges.
2. Run the following script:

```
-----
create user mvdemo2 identified by mvdemo2 default tablespace users
quota unlimited on users;
grant "connect" to mvdemo2;
grant "resource" to mvdemo2;
-----
```

3. After the script is executed, verify if you can connect to the newly created user.

NOTE

The mvdemo2 user creation script defaults with the password within the script. See the [MOS Doc ID: 2691681.1](#) for the password. It is recommended that you keep this value unchanged to simplify configuration.

Importing the database dmp file

4. Import the Oracle Database export file `mvdemo_natureearth.dmp` into the `mvdemo2` schema using the following import command, from the command line (Command Prompt in Windows):

```
c:\> imp mvdemo2/mvdemo2@connectString file=mvdemo_natureearth.dmp
FULL=Y
```

5. `connectString` is the connection string to your Oracle Database 12c where the user `mvdemo2` was created in the step mentioned earlier. Wait for the import process to complete. After completion, log in to your DB with the credentials `mvdemo2/mvdemo2` and validate that you can view the schema tables and some data.

Inserting Extra Spatial Metadata

6. Start an SQL*Plus session to the Oracle Database and connect as user `mvdemo2`.

For example: `c:\>sqlplus mvdemo2/mvdemo2@connectString`

Run the following script:

```
-----
insert into user_sdo_styles select * from styles;
insert into user_sdo_themes select * from themes;
insert into user_sdo_maps select * from basemaps;
insert into user_sdo_cached_maps select * from tilelayers;
commit;
-----
```

9.3.3 MapViewerConfig.xml Edits

To edit the `MapViewerConfig.xml` file, follow these steps:

1. Open the Mapviewer console using the following URL:
`http://<ip address>:<port>/mapviewer`
2. Click **Admin**.
3. Log in with the username/password that was provided while installing the product.
4. Click **Configuration**. This opens the `mapViewerConfig.xml` file.
5. In the section named Predefined Data Source, add the following data source entry:

Replace the IP address, SID, and port to the correct values of the database where the `mvdemo2` schema has been created as given in the previous steps.

```

<map_data_source name="mvdemo2"
  jdbc_host="<Host IP Address>" (use your db ip)
  jdbc_sid="<Service_Name or Service_ID>" (use your db sid)
  jdbc_port="<Port_Number>" (use your db port)
  jdbc_user="mvdemo2"
  jdbc_password="!mvdemo2" (use your selected password if different
from OOB)
  jdbc_mode="thin"
  number_of_mappers="3"
  allow_jdbc_theme_based_foi="false"
  editable="false"
/>

```

-
6. Ensure that all tags have been closed and also the above data source is not within the comments section (ensure that it is outside the comments section which is represented by <!-- ..-->).
 7. Click **Save** and **Restart** button at the bottom of the file.
 8. Click **Data Sources**.
 9. Verify whether you can view mvdemo2 as an entry in data sources.
 10. Log in to the **Analytic screen** and select **Administration**.
 11. Click **Manage map Data**.
 12. Click **Import Layer** and then select **World_Countries**.
 13. Choose **Preview MAP** as **ORACLE_MAPS**.
 14. Click **Import Layer** and then select **World_States_Provinces**.
 15. Choose **Preview MAP** as **ORACLE_MAPS**.
 16. Select **Background Maps**.
 17. Use import Background maps and choose **ORACLE_MAPS**.
 18. Edit the same, add the layer **World_Countries** and then **World_States_Provinces**. While choosing, select the location **ORACLE_MAPS** for a higher Zoom value.
 19. Select the zoom level for country 0 and country 2...15.
 20. Navigate back to the **Layers** tab.
 21. Edit **World_Countries** (select Name as the Layer Key) and **World_States_Provinces** (select State Province Name as the Layer Key) by adding BI Key Columns:
 - For Country:
 - Select **Institutional Performance**, select **Geography**, and then select **Country Description**.

- Select **Institutional Performance**, select **Branch**, and then select **Branch Country Description**.
- Select **Retail Performance**, select **Geography**, and then select **Country Description**.

For State:

- Select **Institutional Performance**, select **Geography**, and then select **State Description**.
- Select **Institutional Performance**, select **Branch**, and then **Branch State Description**.
- Select **Retail Performance**, select **Geography**, and then **State Description**.

9.3.4 Loading FSI_LOCATION_MAP_COORD for viewing mvdemo2 Maps

For mvdemo2 Maps to work, the location data in our atomic schema has to be in sync with the map Metadata in the mvdemo2 schema. This is achieved through a new table: FSI_LOCATION_MAP_COORD, the load process description for which follows.

Populate FSI_LOCATION_MAP_COORD based on DIM_LOCATION data itself, but description and codes should come from tables OBIEE_COUNTRY, OBIEE_STATE, OBIEE_CITY (from the DB schema configured for Maps, 'mvdemo2', for example in this case) respectively for Country, State and City, and n_location_key should be the corresponding n_location_key from DIM_LOCATION.

For Instance, let us consider the following data from DIM_LOCATION.

Table 31: DIM_LOCATION Table Data

Column Name	Value
N_LOCATION_SKEY	1
V_LOCATION_CODE	HAW
V_COUNTRY_CODE	USA
V_COUNTRY_DESC	United States
V_STATE_CODE	HI
V_STATE_DESC	Hawaii
V_CITY_CODE	CIT11
V_CITY_DESC	Honolulu
V_ZIP_CODE	96813

Now, to populate the following columns in FSI_LOCATION_MAP_COORD:

Table 32: FSI_LOCATION_MAP_COORD Table Columns

Column Name	Value
n_location_skey =	1
v_country_code = OBIEE_COUNTRY.ISO_COUNTRY_CODE	USA
v_country_code_map = OBIEE_COUNTRY.ISO_COUNTRY_CODE	USA
v_country_desc = OBIEE_COUNTRY.NAME	United States
v_state_code = OBIEE_STATE.ISO_CTRY_CD_STATE_ABBRV	USA_HI
v_state_code_map = OBIEE_STATE.ISO_CTRY_CD_STATE_ABBRV	USA_HI
v_state_desc = OBIEE_STATE.STATE_NAME	HAWAII
v_city_code = OBIEE_CITY.CTRY_CD3_STATE_ABBRV_CITY	USA_HI_Honolulu
v_city_code_map = OBIEE_CITY.CTRY_CD3_STATE_ABBRV_CITY	USA_HI_Honolulu
v_city_desc = OBIEE_CITY.CITY_NAME	HONOLULU
v_zip_code =	96813

10 Migrate Excel Upload Functionality

See the [Migrate Excel Upload Functionality](#) section in the [OFS AAI Release 8.1.0.0 Installation and Configuration Guide](#) to complete the procedures.

11 **Frequently Asked Questions (FAQs) and Error Dictionary**

For FAQs and installation error-related information, see the section [Frequently Asked Questions \(FAQs\) and Error Dictionary](#) in the [OFS AAI Release 8.1.0.0 Installation and Configuration Guide](#).

OFSAA Support

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

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