

Oracle Insurance Accounting Analyzer

Installation Guide

Release 8.1.1.0.0

February 2021

ORACLE
Financial Services

Oracle Insurance Accounting Analyzer Installation Guide

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Document Control

Table 1: Document Version Control

Version Number	Revision Date	Change Log
2.0	September 2023	Added additional information in the Additional Configurations for Web Servers section for the Bug 35758248
1.0	February 2021	Created the document with instructions for the installation of the Oracle Insurance Accounting Analyzer Release 8.1.1.0.0.

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1 Preface

This section provides supporting information for the Oracle Insurance Accounting Analyzer Installation Guide.

You can find the latest copy of this document in the [OHC Documentation Library](#) which includes all the recent additions or 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](#)
- [Related Documents](#)
- [Conventions](#)
- [Abbreviations](#)

1.1 Intended Audience

The Oracle Insurance Accounting Analyzer Installation Guide is intended for administrators, business users, strategists, data analysts, and implementation consultants who handle installing and maintaining the application pack components.

This document assumes that you have experience installing enterprise components and basic knowledge of the following:

- Oracle Insurance Accounting Analyzer components
- OFSAA architecture
- UNIX commands
- Database concepts
- The web server or web application server

1.2 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 Oracle Insurance Accounting Analyzer:](#)
 - For existing customers of Oracle Insurance Accounting Analyzer (IIA):
 - *OFS Insurance Accounting Analyzer 8.1.1.0.0 Installation Guide*
 - *OFS Insurance Accounting Analyzer 8.1.1.0.0 User Guide*
 - For new customers of Oracle Insurance Accounting Analyzer (IIA):
 - *OFS Insurance Accounting Analyzer 8.1.1.0.0 Release Notes*

- *OFS Insurance Accounting Analyzer 8.1.1.0.0 Installation Guide*
- *OFS Insurance Accounting Analyzer 8.1.1.0.0 User Guide*
- **[OHC Documentation Library](#) for OFS AAI Application Pack:**
 - *OFS Advanced Analytical Applications Infrastructure (OFS AAI) Application Pack Installation and Configuration Guide*
 - *OFS Analytical Applications Infrastructure User Guide*
 - *OFS Analytical Applications Infrastructure Administration Guide*
 - *Oracle Financial Services Analytical Applications Infrastructure Environment Check Utility Guide*
- **Additional Reference Documents:**
 - [OFSAA Licensing User Manual, Release 8.1.1.0.0](#)
 - [OFS Analytical Applications 8.1.1.0.0 Technology Matrix](#)
 - [OFS Analytical Applications Infrastructure Security Guide](#)
 - [Oracle Insurance Accounting Analyzer Security Guides Release 8.1.x](#)
 - [Oracle Financial Services Analytical Applications Infrastructure Cloning Guide](#)
 - [Oracle Insurance Accounting Analyzer Cloning Guide release 8.0.x](#)
 - [Oracle Insurance Accounting Analyzer Cloning Guide Release 8.1.x](#)
 - [OFSAAI FAQ Document](#)
 - Oracle Financial Services Data Foundation Technical Documents (MOS Doc ID: [2450653.1](#)). See the relevant version of the metadata sheet available in the MOS document (For CAS, see T2T Metadata Staging, and for SCD components, see SCD Metadata sheet).

1.3 Conventions

The following text conventions are used in this document.

Table 2: 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 need to update specific 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 links to external websites and internal document links.

1.4 Abbreviations

The following table lists the abbreviations used in this document.

Table 3: Abbreviations

Abbreviation	Meaning
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
OFSAA	Oracle Financial Services Analytical Applications
OFSAAI	Oracle Financial Services Analytical Application Infrastructure
OFSAAAI	Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack
OFS IIA	Oracle Financial Services Insurance Accounting Analyzer
OHC	Oracle Help Center
OLAP	On-Line Analytical Processing
OLH	Oracle Loader for Hadoop

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

Part I

Topics:

- [Introduction](#)
- [Complete Installation Checklist](#)
- [Hardware and Software Requirements](#)
- [Pre-installation](#)
- [Installation](#)
- [Post-installation](#)

2 Introduction

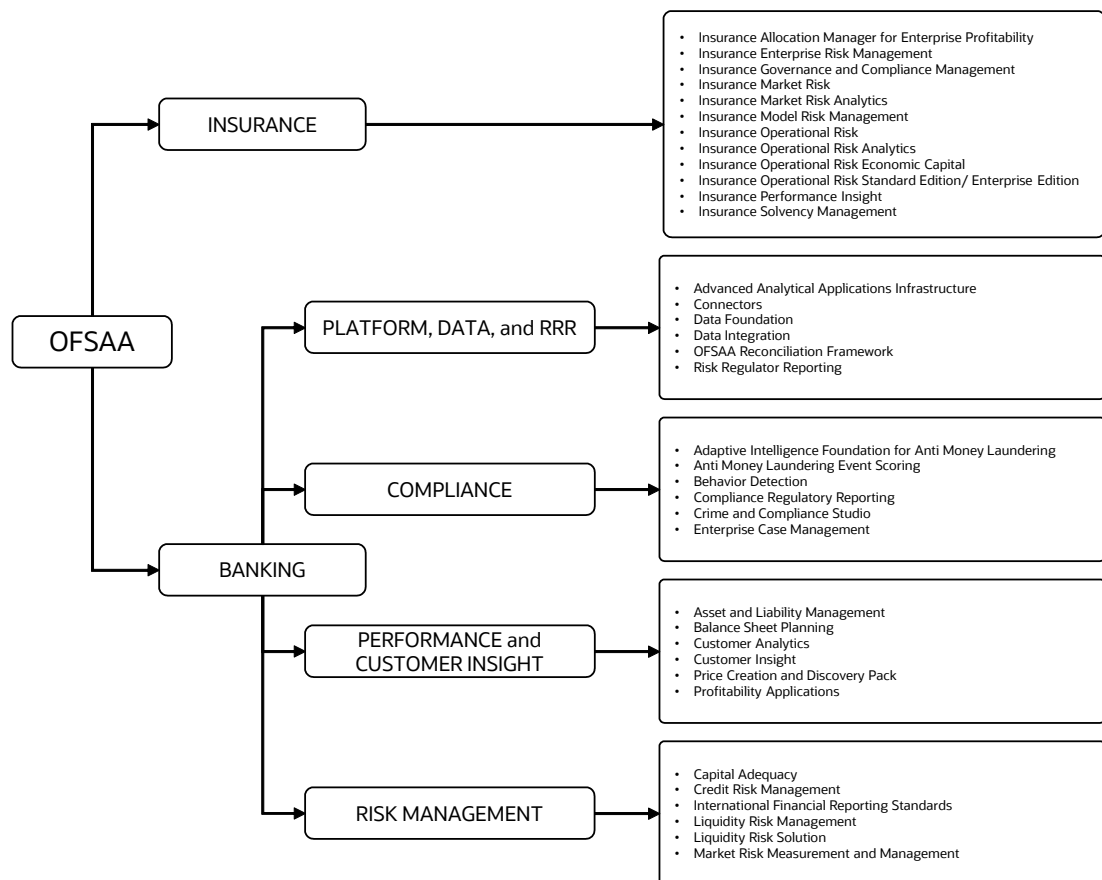
In today's turbulent markets, financial institutions require a better understanding of their risk-return, while strengthening competitive advantage and enhancing long-term customer value. Oracle Financial Services Analytical Applications (OFSAA) enable financial institutions to measure and meet risk-adjusted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

OFSAA uses industry-leading analytical methods, shared data models, and applications architecture to enable integrated risk management, performance management, customer insight, and compliance management. OFSAA actively incorporates risk into decision making, enables to achieve a consistent view of performance, promotes a transparent risk management culture, and provides 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 \(OFS AAI\)](#)
- [About Oracle Insurance Accounting Analyzer Application Pack](#)
- [Installation Overview](#)
- [Installation and Upgrade Scenarios](#)
- [Compatibility Matrix](#)

2.1 Oracle Financial Services Analytical Applications Infrastructure (OFS AAI)

Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) powers the Oracle Financial Services Analytical Applications family of products to perform the processing, categorizing, selection, and manipulation of data and information required to analyze, understand and report on specific performance, risk, compliance, and customer insight issues by providing a strong foundation for the entire family of Oracle Financial Services Analytical Applications across the domains of Risk, Performance, Compliance and Customer Insight.

Topics:

- [Components of OFSAA Infrastructure](#)
- [OFSAA Infrastructure High Availability](#)
- [Deployment Topology](#)

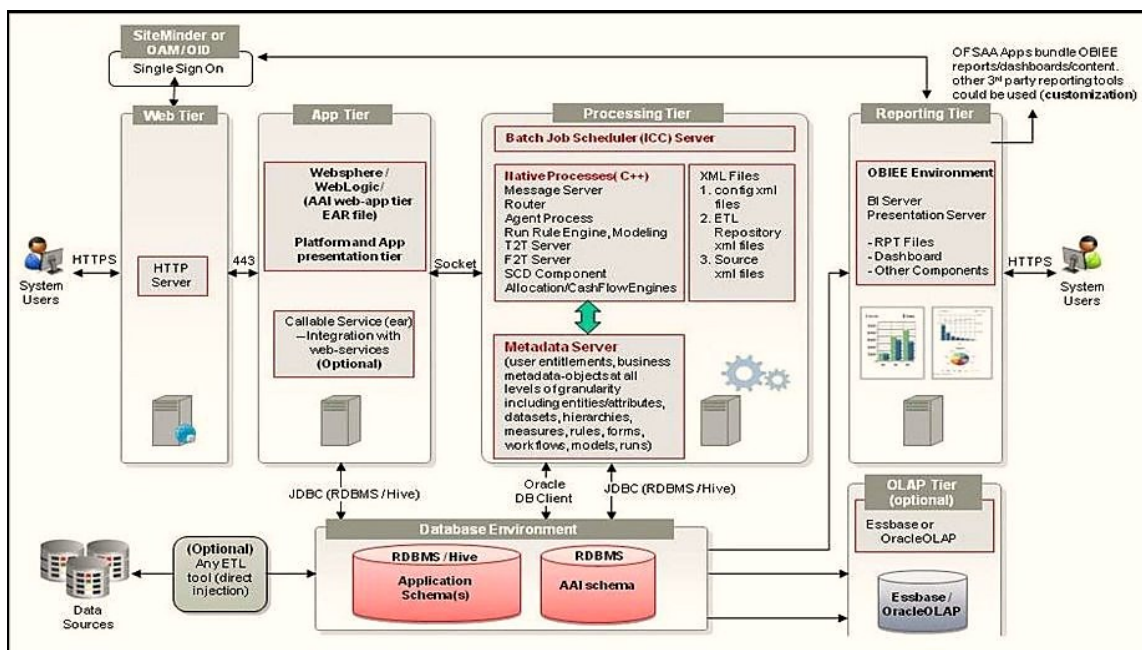
2.1.1 Components of OFSAA Infrastructure

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

The OFSAA Infrastructure components or 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 is deployed on any of the supported J2EE Servers.

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

Figure 2: Components of OFSAAI



2.1.2 OFSAA Infrastructure High Availability

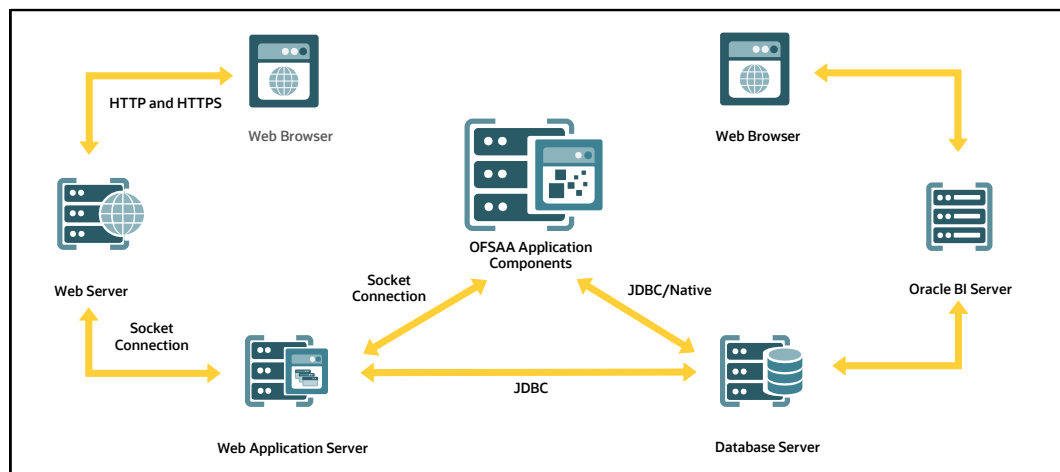
The current release of the OFSAA Infrastructure supports only the Single Instance installation for the Infrastructure components. However, the High Availability (HA) for the Database Server and (or) the Web application server clustering and deployment is supported in this release.

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

2.1.3 Deployment Topology

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

Figure 3: Logical Architecture Implemented for OFSAA Application Packs



2.2 About Oracle Insurance Accounting Analyzer Application Pack

Oracle Insurance Accounting Analyzer Application Pack Release 8.1.1.0.0 includes the following product:

- Oracle Insurance Accounting Analyzer:** IFRS17 is an international norm that supersedes the current reporting standards, IFRS 4. The new standards provide the users of financial statements with a new perspective of the financial accounts of insurance companies. IFRS 17 requires Insurance companies to have consistent accounting standards for the Insurance contracts which ensures timely recognition of losses in the book of accounts. Insurance companies must identify and report the Fulfillment Cash Flows and Contractual Service Margin at every reporting date, based on the current market conditions. Oracle Insurance Accounting Analyzer application helps the organizations in arriving at the insurance obligations (Insurance Contract liabilities reported on the balance sheet), using different methodologies for a set of portfolios, by assessing the net liability for every insurance contract.

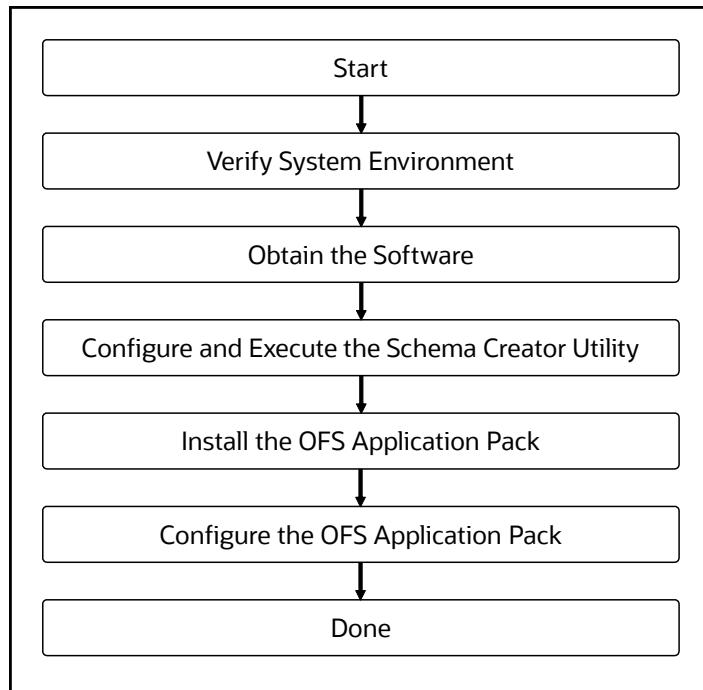
2.3 Installation Overview

To install an Oracle Insurance Accounting Analyzer application pack 8.1.1.0.0 instance, users and administrators must download this installer. The following figure displays the order of procedures you will need to follow to install a new Oracle Insurance Accounting Analyzer Pack 8.1.1.0.0 instance.

NOTE

This installer supports both upgrade (from Oracle Insurance Accounting Analyzer (IIA) 8.1.0.1.0) and fresh installation of Oracle Insurance Accounting Analyzer 8.1.1.0.0.

Figure 4: Installation Flow



2.4 OFS AAI Extension Pack

The Oracle Financial Services Analytical Applications Infrastructure Extension (OFS AAIE) Pack adds a set of new advanced features for the 8.1.1.0.0 Release across OFSAA applications. This pack can be installed on an OFSAA instance having one or more OFSAA application packs.

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

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

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

2.5 Installation and Upgrade Scenarios

Release 8.1.1.0.0 of Oracle Insurance Accounting Analyzer supports various installation and upgrade scenarios. A high-level overview of the possible scenarios is provided in the following table. Detailed procedural steps are provided in the succeeding sections of this document.

Table 4: Oracle Insurance Accounting Analyzer Release 8.1.1.0.0 Installation and Upgrade Scenarios

Scenario	Installation and Upgrade Instructions
New Installation	
Installing Release 8.1.1.0.0 application pack for the first time (new installation).	<ol style="list-style-type: none"> 1. Prepare for the Installation. 2. Execute the Schema Creator Utility. 3. Install the Oracle Insurance Accounting Analyzer Application Pack.
<p>Install a new application pack on an Existing OFSAA Instance</p> <p>You have already installed an application pack from release 8.1.1.0.0 and now you want to install another application pack from Release 8.1.1.0.0.</p> <p>Example: Oracle Insurance Accounting Analyzer Pack is already installed and now you want to install OFS ODF.</p>	<ol style="list-style-type: none"> 1. Run the schema creator utility ONLY for the new pack. 2. Update the <code>PACK.xml</code> file for the newly licensed pack. 3. Update the <code>Silent.props</code> file of the newly licensed pack. 4. Trigger the Release 8.1.1.0.0 installation.
Upgrade Installation	
Upgrade from Release v8.1.0.1.0 to Release v8.1.1.0.0	<ol style="list-style-type: none"> 1. If you are upgrading the application pack from a release before Release 8.1.0.1.0, then upgrade to Release v8.1.0.1.0. 2. Update the <code>Silent.props</code> file. 3. Run the Environment Check Utility tool and ensure that you install the hardware and software requirements as per the OFS Analytical Applications Technology Matrix. See the OFSAA Environment Check Utility Guide for detailed steps. 4. Optionally, Clone your existing environment to the 8.1.1.0.0 OFS Analytical Applications Technology Matrix. 5. Trigger the Release 8.1.1.0.0 installation.

2.6 Compatibility Matrix

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

Table 5: IIA 8.1 Application Compatibility Matrix

If you are installing	Do not Install the Listed Application in the Same Environment
OFS_IIA_PACK	None

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 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 6: Complete Installation Checklist

Sl. No.	Pre-installation Activity
1	Install all the prerequisite hardware and software given in the OFS Analytical Applications Technology Matrix.
2	Verify the System Environment using the Environment Check Utility.
3	<p>Configure the following Operating System and File System settings:</p> <ul style="list-style-type: none"> • File Descriptor • Total number of processes • Port(s) • <code>.profile</code> file permissions <p>Add FTP/SFTP configuration for file transfer</p>
4	Configure the Operating System and File System Settings
5	Install and configure the web application server.
6	Configure the HTTP settings on the webserver.
7	<p>Mount the FSS to Compute Virtual Machine if you are deploying on the cloud server. Note: This step is applicable only for deployment on the Oracle Cloud Infrastructure.</p>
8	<p>Open the Network Ports for OFSAA Services if you are deploying on the cloud server. Note: This step is applicable only for deployment on the Oracle Cloud Infrastructure.</p>
9	<p>Create the Installation, Download, and Metadata Repository Directories:</p> <ul style="list-style-type: none"> • Installation directory • Temporary directory • Staging Area/Metadata Repository directory <p>Download directory</p>
11	<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
12	Download the Oracle Insurance Accounting Analyzer installer kit and erwin data model.
13	Extract the installer kit.

Sl. No.	Installation Activity
1	Configure the OFS_IIA_PACK.xml file.
2	Configure the OFS_IIA_SCHEMA_IN.xml file.
3	Execute the Schema Creator Utility in Online, Offline, modes, and verify the log file.
4	Configure the Silent.props file.
5	Configure the OFSAAI_InstallConfig.xml file.
6	Trigger the application installation.
7	Verify the installation logs.

Sl. No.	Post-installation Activity
1	Verify that all patches are successfully installed.
2	Update the Config Schema. Note: This step is applicable only for deployment on the Oracle Cloud Infrastructure.
3	Edit the WDSL Property File. Note: This step is applicable only for deployment on the Oracle Cloud Infrastructure.
4	Back up the OFS_IIA_SCHEMA_IN.xml, OFS_IIA_SCHEMA_OUTPUT.xml, and Silent.props files.
5	Stop the OFSAA Infrastructure services.
6	Start the OFSAA Infrastructure services.
7	Create and deploy EAR or WAR files.
8	Configure the browser settings for the Internet.
9	Configure the webserver.
10	Configure the Resource Reference in web application servers.
11	Configure the Work Manager in the web application servers.
12	EAR/WAR File - Build Once and Deploy Across Multiple OFSAA Instances.
13	Access the OFSAA application.
14	Configure excludeURLList.cfg file.
15	Configure Tomcat.
16	Change the ICC batch ownership.
17	Update the OBIEE URL.
18	Configure Data Source.
19	Set Data Redaction in Oracle Insurance Accounting Analyzer.
20	Implement Data Protection in OFSAA.
21	Post-deployment Configuration.

Sl. No.	Post-installation Activity
	<ul style="list-style-type: none"> • OBIEE Configuration – Deploy Oracle Insurance Accounting Analyzer Analytics. • Logging as System Administrator. • Create Application Users. • Map the Application User (or Users) to User Groups. • IIA Pack User Group Names.

Sl. No.	Additional Configuration Activity
1	Add FTP/SFTP Configuration for File Transfer.
2	Configure the Infrastructure Server Memory.
3	Configure the Internet Settings.
4	Set OLAP Data Server Configuration.
5	Change IP or Hostname, Ports, Deployed Paths of the OFSAA Instance.
6	Execute the OFSAAI Setup Information Fetching Tool.
7	Execute the Encryption Changer.
8	Configure the Infrastructure LDAP Configuration.
9	Enable Parallel Execution of DML statements
10	Clear the application cache.
11	Configure password changes.
12	Configure Java Virtual Machine.
13	Configure Internal Service (Document Upload/Download).

4 Hardware and Software Requirements

For a list of all the hardware and software requirements including operating systems, database, web servers, and web application server versions for which this release of the Oracle Insurance Accounting Analyzer Applications Pack is qualified see the [OFS Analytical Applications Technology Matrix](#).

Topics:

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

NOTE

Oracle Insurance Accounting Analyzer Application Pack installation can be performed on both Virtual and Physical servers.

Oracle Insurance Accounting Analyzer application pack recommends the following software combinations for deployment.

Table 7: Recommended Software Combination

Operating System	Database	Web Application Server	Web Server
Oracle Linux	Oracle Database	IBM WebSphere Application Server / Oracle WebLogic Server/ Apache Tomcat Server	IBM HTTP Server/ Oracle HTTP Server/ Apache 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 more information about the third-party software tools used in Oracle Insurance Accounting Analyzer, see the [OFSAA Licensing Information User Manual Release 8.1.1.0.0](#).

4.2 Verify System Environment

To verify your system environment meets the minimum requirements for the installation, a Pre-install Check utility is available within the Install Kit archive file. This utility can also be obtained separately by contacting [My Oracle Support](#).

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

For more information about downloading and using this utility, see the [OFSAA Environment Check Utility Guide](#).

5 Pre-installation

This chapter provides the necessary information to review before installing the Oracle Insurance Accounting Analyzer Pack 8.1.1.0.0.

Topics:

- [Pre-installation Checklist](#)
- [Oracle Database Instance Settings](#)
- [Web Application Server Settings](#)
- [Web Server Settings](#)
- [Create the Installation, Download, and Metadata Repository Directories](#)
- [Configure the OS File System Settings and Environment Settings in the .profile File](#)
- [Download the Oracle Insurance Accounting Analyzer Applications Pack Installer and erwin Data Model](#)
- [Extract the Software](#)

NOTE When merging the lower version of an application with an integrated data model, retain the larger size of column length.

5.1 Pre-installation Checklist

You can use this checklist to have a 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.

The Installer Environment Check utility notifies you if any requirements are not met.

Table 8: Pre-Installation Checklist

Sl. No.	Pre-installation Activity
1	Install all the prerequisite hardware and software given in the OFS Analytical Applications Technology Matrix.
2	Verify the System Environment using the Environment Check Utility.
3	<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 <p>Add FTP/SFTP configuration for file transfer</p>
4	Configure the Operating System and File System Settings
5	Install and configure the web application server.

Sl. No.	Pre-installation Activity
6	Configure the HTTP settings on the webserver.
7	Mount the FSS to Compute Virtual Machine if you are deploying on the cloud server. Note: This step is applicable only for deployment on the Oracle Cloud Infrastructure.
8	Open the Network Ports for OFSAA Services if you are deploying on the cloud server. Note: This step is applicable only for deployment on the Oracle Cloud Infrastructure.
9	Create the Installation, Download, and Metadata Repository Directories: <ul style="list-style-type: none"> • Installation directory • Temporary directory • Staging Area/Metadata Repository directory Download directory
11	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
12	Download the Oracle Insurance Accounting Analyzer installer kit and erwin data model.
13	Extract the installer kit.

5.2 Oracle Database Instance Settings

Ensure that the following database instance settings are configured:

- NLS_CHARACTERSET to AL32UTF8
- NLS_LENGTH_SEMANTICS to BYTE
- OPEN_CURSORS limit to greater than 1000

5.3 Web Application Server Settings for WebSphere

Ensure that the web application server is installed and the profile (when using WebSphere) or domain (when using WebLogic) is created.

Table 9: Web Application Server Settings

Description	Example Value
WebSphere	<p>Web Application Server should be installed and the profile/domain created.</p> <p>You will be prompted to enter the WebSphere Profile path during OFSAAI installation.</p> <p>NOTE: See Configure the Web Server for WebSphere Profile and WebLogic Domain creation.</p>

5.4 Web Application Server Settings for WebLogic

Ensure that the web application server is installed and the profile (when using WebSphere) or domain (when using WebLogic) is created.

Table 10: Web Application Server Settings

Description	Example Value
WebLogic	<p>Web Application Server should be installed and the profile/domain created.</p> <p>You will be prompted to enter the WebLogic Domain path during OFSAAI installation.</p> <p>NOTE: See Configure the Web Server for WebSphere Profile and WebLogic Domain creation.</p>

5.5 Web Application Server Settings for Tomcat

Ensure that the web application server is installed and the profile (when using WebSphere) or domain (when using WebLogic) is created.

Table 11: Web Application Server Settings

Description	Example Value
Tomcat	<p>Web Application Server should be installed and the profile or domain created.</p> <p>You will be prompted to enter the Tomcat Deployment path during OFSAAI installation.</p> <p>NOTE: See Configure the Web Server for WebSphere Profile and WebLogic Domain creation.</p>

5.6 Web Server Settings

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

Table 12: Web Server Settings

Description	Example Value
Apache HTTP Server, Oracle HTTP Server, or IBM HTTP Server	Configure the HTTP Server and note down the IP or Hostname and Port details as you will be prompted to enter these details during installation. NOTE: See Configure the Web Server for web server configuration.

5.7 Mounting FSS to Compute Virtual Machine

This section provides details about the required configurations for successful installation and (or) deployment on the Oracle Cloud Infrastructure. For more information, see [Generic Documents](#).

If you are deploying on the cloud server, you must perform the steps mentioned in this section. This section enables you to mount the `ftpshare` directory across the OFSAA Processing Tier Compute nodes, and conditionally apply to any other nodes, for high availability or nonhigh availability deployments.

NOTE Ensure that the `ftpshare` folder is created and use the mount under which the `ftpshare` folder was created.

To mount the file system to compute Virtual Machine, follow these steps:

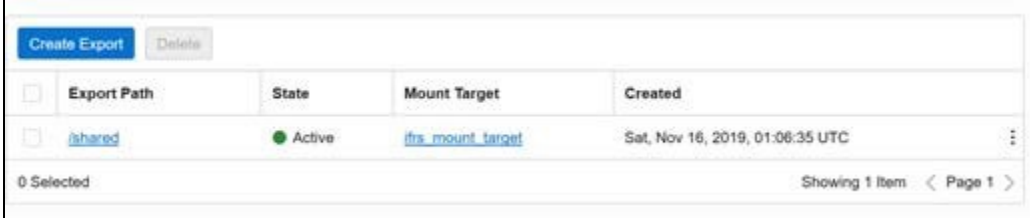
1. Log in to the Oracle Cloud Infrastructure console.
2. Navigate to **File Storage** and select **File Systems**.

Figure 5: The File Systems Window


<input type="checkbox"/>	Name	State	Availability Domain	Utilization	Created	
<input type="checkbox"/>	IFRS17-Shared	Active	deaq:US-ASHBURN-AD-3	0 B ⓘ	Wed, Dec 4, 2019, 23:47:33 UTC	⋮
<input type="checkbox"/>	shared_ifrs_storage	Active	deaq:US-ASHBURN-AD-1	8.5 KiB ⓘ	Sat, Nov 16, 2019, 01:06:14 UTC	⋮

0 Selected Showing 2 Items < Page 1 >

3. In the Name column, select the project-specific FSS that has been created. In this example, click `shared_ifrs_storage` to open the **Details Screen** and view the export path.

Figure 6: The Details Screen Displaying the Export Path


<input type="checkbox"/>	Export Path	State	Mount Target	Created	
<input type="checkbox"/>	/shared	Active	ifrs_mount_target	Sat, Nov 16, 2019, 01:06:35 UTC	⋮

0 Selected Showing 1 Item < Page 1 >

4. For the required export path, click More , and select Mount Commands.

Figure 7: The Details Screen after clicking the More Icon



Figure 8: The Mount Commands Window



5. Ensure that the Oracle Cloud Infrastructure (OCI) team has opened the Ingress or Egress ports.
6. In the Mounting Commands window:
 - a. In the **COMMAND TO INSTALL NFS CLIENT** field, enter the value `sudo yum install nfs-utils`.
 - b. In the **COMMAND TO INSTALL NFS CLIENT** field, enter the value `sudo mkdir -p /mnt/shared`, where `/mnt/shared` must be replaced with your mount value.
 - c. In the **COMMAND TO MOUNT THE FILE SYSTEM** field, enter the value `sudo mount 10.0.14.5:/shared/mnt/shared`, where `/mnt/shared` must be replaced with your mount value and `10.0.14.5` must be replaced with your storage VM IP address.
7. Click Close.
8. Use PuTTY tunneling session to connect to the **OFSAA Product Home1** compute virtual machine with the command, `ssh <ofsa product_home1>`.
9. Execute the commands in the fields **COMMAND TO INSTALL NFS CLIENT**, **COMMAND TO INSTALL NFS CLIENT**, and **COMMAND TO MOUNT THE FILE SYSTEM** in sequence.
10. To verify that the execution of the mounting commands was successful, try to verify by accessing a sample text file from OFSAA product home:
 - a. Verify the mount by using the command: `df -k`.

- b. Create any text file in this mount.
- c. Verify that this file is accessible when you connect to the OFSAA Product Home2 compute virtual machine.

5.8 Opening up the Network Ports for OFSAA Services

If you are deploying the Oracle Insurance Accounting Analyzer application on the Cloud servers, you must open the respective ports that will be used for the OFSAA Services across the network for the respective subnets in the deployment setup through the OCI team:

NOTE The ports mentioned in this section are the default ports. You must open your available ports.

1. Open the following ports:

JAVAPORT
NATIVEPORT
AGENTPORT
ICCPORT
ICCNATIVEPORT
OLAPPORT
MSGPORT
ROUTERPORT
AMPORT
WEB_SERVER_PORT

5.9 Create the Installation, Download, and Metadata Repository Directories

To install Oracle Insurance Accounting Analyzer, create the following directories:

- **OFSAA Download Directory (Optional):** This is the directory where the downloaded installer or patches can be copied. Create a download directory and copy the OFSAA Application Pack Installer File (archive). Assign 755 permission to this directory.
- **Temporary Directory:** Default temporary directory where the installation files are stored for a short time to support faster installation. Configure adequate space on the `/tmp` directory. It is recommended that you allocate more than 10 GB of space. Assign 755 permission to this directory with the NOEXEC option disabled.

NOTE If the NOEXEC option is enabled, the extraction of files by the installer into the `/tmp` directory is prevented and the binaries will not execute in the directory, which will fail the installation.

- **OFSAA Installation Directory (Mandatory):** Create an installation directory where the product binaries are installed. Set the variable FIC_HOME in the .profile file to point to the OFSAA Installation Directory. Assign 755 user permission to the installation directory.
- **OFSAA Staging or Metadata Directory (Mandatory):** A directory to hold the application metadata artifacts and additionally act as the staging area for the flat files. This directory is also referred to as "FTP SHARE". Create a Staging or Metadata Repository Directory to copy data files, save data extracts, and so on.

The directory must exist on the same system as the OFSAA Installation. This directory can be configured on a different mount or under a different user profile. However, the owner of the installation directory must have RWX (775) permissions to this directory.

NOTE

Ensure the OFSAA staging directory is not set to the same path as the OFSAA installation directory and is not a subdirectory inside the OFSAA installation directory.

5.10 Configure the OS File System Settings and Environment Settings in the .profile File

This section provides detailed information on configuring the operating system and file system settings and how to configure the environment settings.

Topics:

- [Configure Operating System and File System Settings](#)
- [Configure the Environment Settings](#)

5.10.1 Configure Operating System and File System Settings

Log in as a root user and create the `.profile` file at the home directory of the logged-in user if it is not already available. The user must have 755 permission on the file to execute it. This file consists of various parameters for Environment Settings, OS, and File System Settings. Configure the following settings:

Table 13: Web Server Settings

Parameter	Configuration Action
File Descriptor Settings	In the <code>sysctl.conf</code> file, to change the number of file descriptors, do the following as the root user: <ol style="list-style-type: none"> Edit the following line in the <code>/etc/sysctl.conf</code> file: <code>fs.file-max = <value></code> where <code><value></code> is greater than 15000 Apply the change by running the following command: <code># /sbin/sysctl -p</code> <p>NOTE: The value specified here is the minimum value to be set for the installation process to go forward.</p>
Total Number of Process Settings	In the <code>sysctl.conf</code> file set the value to greater than 4096. <p>NOTE: The value specified here is the minimum value to be set for the installation process to go forward. For other modules, this value may depend on the available resources and the number of processes executed in parallel.</p>
Port Settings	Default port numbers to be enabled on the system are 6500, 6501, 6505, 6507, 6509, 6510, 6666, 9999, and 10101.
OS Locale	Linux: <code>en_US.UTF-8</code> Solaris: <code>en_US.UTF-8</code> To check the locale installed, execute the following command: <code>locale -a grep -i 'en_US.utf'</code>

If you are a non-root user, configure the following settings:

Table 14: Configure Operating System and File System Settings

Parameter	Configuration Action
Installation Directory	In the <code>.profile</code> file, set the variable <code>FIC_HOME</code> to point to the OFSAA Installation Directory.
<code>.profile</code> permissions	You must have 755 permission on the <code>.profile</code> file.

To set the parameters for the `.profile` file, login as a non-root user, and configure the environment settings.

WARNING

Do not modify any other parameters other than the parameters mentioned in the following subsections.

5.10.2 Configure the Environment Settings

This section provides information to configure the environment settings before installation.

Topics:

- [Java Settings](#)
- [Oracle Database Server and Client Settings](#)

- [TNS Entries in TNSNAMES.ORA File](#)
- [Time Zone Settings](#)

5.10.2.1 Java Settings

The following table displays the Java settings required for installation.

Table 15: Java Settings

Description	Example Value
In the <code>.profile</code> file, set PATH to include the Java Runtime Environment (JRE) absolute path. Ensure that SYMBOLIC links to JAVA installation are not set in the PATH variable.	<pre>JAVA_HOME=/scratch/jdk<<version>>/jre</pre> <p>For example: <code>PATH=/usr/java/jre1.8.0_221/bin:\$ORACLE_HOME/bin:\$PATH</code> <code>JAVA_HOME=/scratch/jdk<<version>>/jre</code></p>
In the <code>.profile</code> file, set PATH to include the Java Runtime Environment bin path.	<pre>JAVA_BIN=/scratch/<<version>>/jre/bin</pre> <p>For example: <code>PATH=/usr/java/jre1.8.0_221/bin:\$ORACLE_HOME/bin:\$PATH</code></p>
In the <code>.profile</code> file, set the Java tool options for all versions JDK 11.0.20 and above updates	<pre>JAVA_TOOL_OPTIONS=" - Djdk.util.zip.disableZip64ExtraFieldValidation=true" export JAVA_TOOL_OPTIONS</pre>
Enable unlimited cryptographic policy for Java.	For more information, see the <i>Enabling Unlimited Cryptographic Policy</i> section from the OFS Analytical Applications Infrastructure Administration Guide .

5.10.2.2 Oracle Database Server and Client Settings

The following table displays the Oracle Database server and client settings required for installation.

Table 16: Oracle Database Server and Client Settings

Description	Example Value
In the <code>.profile</code> file, set <code>TNS_ADMIN</code> pointing to the appropriate <code>tnsnames.ora</code> file.	<code>TNS_ADMIN=\$HOME/tns</code>
In the <code>.profile</code> file, set <code>ORACLE_HOME</code> pointing to the appropriate Oracle Client installation.	<code>ORACLE_HOME=/scratch/oraofss/app_client18c/product/18.0.0/client_1</code>
In the <code>.profile</code> file, set <code>PATH</code> to include the appropriate <code>\$ORACLE_HOME/bin</code> path.	<code>PATH=\$JAVA_HOME/bin:\$ORACLE_HOME/bin</code>
OFSAA Processing Server	Ensure that an entry (with SID/ SERVICE NAME) is added in the <code>tnsnames.ora</code> file.

5.10.2.3 TNS entries in the TNSNAMES.ORA file for Non-TCPS and TCPS

The section includes information about the TNS entries in the `TNSNAMES.ORA` file for Non-TCPS and TCPS.

5.10.2.3.1 Non-TCPS

The following table displays the Non-TCPS settings required for installation.

Table 17: TNS entries in the TNSNAMES.ORA file for Non-TCPS

Description	Example Value
Ensure that an entry (with SID/ SERVICE NAME) is added in the <code>tnsnames.ora</code> file on the OFSAA server.	<pre><SID_NAME> = DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP) (HOST = <HOST_NAME>.in.oracle.com) (PORT = 1521))) (CONNECT_DATA = (SERVICE_NAME = <SID_NAME>)) <ATOMIC_SCHEMA_NAME> = (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP) (HOST = <HOST_NAME>.in.oracle.com) (PORT = 1521))) (CONNECT_DATA = (SERVICE_NAME = <SID_NAME>)))</pre>

```
<SID NAME> =
  (DESCRIPTION =
    (ADDRESS_LIST =
```



```

        (ADDRESS = (PROTOCOL = TCP) (HOST = <HOST NAME>) (PORT = <PORT
NUMBER>))
    )
    (CONNECT_DATA =
        (SERVICE_NAME = <SID NAME>)
    )
)

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

```

NOTE The ATOMIC SCHEMA NAME must be the same as defined in the OFS_<App Pack>_SCHEMA_IN.xml file.

5.10.2.3.2 TCPS

The following table displays the TCPS settings required for installation.

Table 18: TNS entries in the TNSNAMES.ORA file for TCPS

Description	Example Value
Ensure that an entry (with SID/ SERVICE NAME) is added in the tnsnames.ora file on the OFSAA server.	<SID_NAME> = DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCPS) (HOST = <HOST_NAME>.in.oracle.com) (PORT = 1521))) (CONNECT_DATA = (SERVICE_NAME = <SID_NAME>)) <ATOMIC_SCHEMA_NAME> = (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCPS) (HOST = <HOST_NAME>.in.oracle.com) (PORT = 1521))) (CONNECT_DATA = (SERVICE_NAME = <SID_NAME>))) (security=(ssl_server_cert_dn=CN=<HOST_NAME>))))
Ensure that an entry (with WALLET_HOME and wallet parameters) is added in the sqlnet.ora file on the OFSAA server must be the same as the Oracle database server running with TCPS.	NAMES.DIRECTORY_PATH= (TNSNAMES, EZCONNECT) WALLET_LOCATION = (SOURCE = (METHOD = FILE) (METHOD_DATA = (DIRECTORY = <PATH TO WALLET DIRECTORY>))) SQLNET.WALLET_OVERRIDE = TRUE SSL_CLIENT_AUTHENTICATION = FALSE SQLNET.AUTHENTICATION_SERVICES = (TCPS,NTS,BEQ) SSL_CIPHER_SUITES = (SSL_RSA_WITH_AES_256_CBC_SHA, SSL_RSA_WITH_3DES_EDE_CBC_SHA)

```

<SID NAME> =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCPS) (HOST = <HOST NAME>) (PORT = <PORT
NUMBER>))
    )
    (CONNECT_DATA =
      (SERVICE_NAME = <SID NAME>)
    (security=(ssl_server_cert_dn=CN=<HOST NAME>))
    )
  )

<ATOMICSCHEMANAME> =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCPS) (HOST = <HOST NAME>) (PORT = <PORT
NUMBER>))
    )
    (CONNECT_DATA =
      (SERVICE_NAME = <SID NAME>)
    (security=(ssl_server_cert_dn=CN=<HOST NAME>))
  )
)

```

NOTE The ATOMIC SCHEMA NAME must be the same as defined in the OFS_<App Pack>_SCHEMA_IN.xml file, which also includes prefix without underscore. For example, DEVOFSAAATM.

5.10.2.4 Time Zone Settings

In the .profile file, set the Time Zone parameter to indicate the time zone of your region or location.

Table 19: Time Zone Settings

Description	Example Value
Time Zone	TZ=Asia/Calcutta

5.11 Download the Oracle Insurance Accounting Analyzer Application Pack Installer and Erwin Data Model

To download the Oracle Insurance Accounting Analyzer Installer Release v8.1.1.0.0, follow these steps: (Bug Number: **32506459**)

1. Log in to My Oracle Support and search for **32506459** under the **Patches & Updates** tab.
2. Download the installer archive and copy (in Binary mode) to the download directory that exists in the Oracle Insurance Accounting Analyzer installation setup.

NOTE Download the Oracle Insurance Accounting Analyzer Erwin data model patch **32479078** from [My Oracle Support](#). You can search for the patch number in the Patches and Updates tab and download it.

5.12 Extract the Software

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

1. 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.

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

2. Uncompress the unzip installer file using the following command:

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

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

3. Assign execute (751) to the file using the following command:

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

For example `chmod 751 unzip_sparc`

4. Extract the contents of the Oracle Insurance Accounting Analyzer Application Pack Release 8.1.1.0.0 installer archive file in the download directory using the following command:

```
unzip OFS_IIA_PACK.zip
```

- 5.

6. Navigate to the download directory and assign execute permission to the installer directory using the following command:

```
chmod -R 750 OFS_IIA_Pack
```

6 Installation

This section provides detailed steps to install the Oracle Insurance Accounting Analyzer Application Pack.

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

Topics:

- [Installation Checklist](#)
- [Configure the OFS_IIA_PACK.xml File](#)
- [Configure the Schema Creator Utility](#)
- [Execute the Schema Creator Utility](#)
- [Configure the OFSAAI_InstallConfig.xml File](#)
- [Install the Oracle Insurance Accounting Analyzer Application Pack](#)

6.1 Installation Checklist

You can use this checklist to have a 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 20: Installation Checklist

Sl. No.	Installation Activity
1	Configure the OFS_IIA_PACK.xml file.
2	Configure the OFS_IIA_SCHEMA_IN.xml file.
3	Execute the Schema Creator Utility in Online, Offline, modes, and verify the log file.
4	Configure the Silent.props file.
5	Configure the OFSAAI_InstallConfig.xml file.
6	Trigger the application installation.
7	Verify the installation logs.

6.2 Configure the OFS_IIA_PACK.xml File

The OFS_IIA_PACK.xml file contains details on the various products that are packaged in the Oracle Insurance Accounting Analyzer Application. This section details the various tags and parameters

available in the file and the values that must be updated. Before installing the Oracle Insurance Accounting Analyzer Application, it is mandatory to update this file.

NOTE Enable licenses as per your Service Level Agreement (SLA).

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

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

Table 21: OFS_IIA_PACK.xml File Parameters

Tag Name or Attribute Name	Description	Mandatory (Y or N)	Comments
APP_PACK_ID	Unique Application Pack Identifier	Y	Unique Seeded Value. Do not modify this value.
IS_OPT_INSTALL VALUE="TRUE"	Unique Application Entry	Y	Unique Seeded Value. Do not modify this value.
APP_PACK_NAME	Unique Application Pack Name	Y	Unique Seeded Value. Do not modify this value.
APP_PACK_DESCRIPTION	Unique Application Pack Description	Y	Unique Seeded Value. Do not modify this value.
VERSION	Unique release version	Y	Unique Seeded Value. Do not modify this value.
APP	Unique Application Entries	Y	Unique Seeded Value. Do not modify this value.
APP_ID	Unique Application Identifier	Y	Unique Seeded Value. Do not modify this value.
APP_ID/ PREREQ	Prerequisite Application or Product	Y	Unique Seeded Value. For most applications, the prerequisite that is set is OFSAAAI. For all other applications, the default Application ID is set to none. You can set it for the applications you want to install. Do not modify this value.

Tag Name or Attribute Name	Description	Mandatory (Y or N)	Comments
APP_ID/ DEF_SEL_FLAG	Default Selected Flag	Y	In all Application Packs, Infrastructure requires this value to be set to YES. Do not modify this value.
APP_ID/ ENABLE	Enable Application or Product	Y	<ul style="list-style-type: none"> • Default YES for Infrastructure • NO for Others Set this attribute-value to YES against every APP_ID which is licensed and must be enabled for use. NOTE: The Application or Product cannot be disabled once enabled. However, an Application or Product which is not enabled during installation can be enabled later through the Administration UI.
APP_NAME	Unique Application or Product Name	Y	Unique Seeded Value. Do not modify this value.
APP_DESCRIPTION	Unique Application or Product Name	Y	Unique Seeded Value. Do not modify this value.
VERSION	Unique release version	Y	Unique Seeded Value. Do not modify this value.

6.3 Configure the Schema Creator Utility

Creating database users or schemas (RDBMS) is one of the primary steps in the complete Oracle Insurance Accounting Analyzer installation process. The Schema Creator utility enables you to quickly get started with the installation by creating Database User(s) or Schema(s) (RDBMS), assigning the necessary GRANT(s), creating the required entities in the schemas, and so on.

Configure and execute the schema creator utility before installing the OFSAA Application Pack.

Topics:

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

6.3.1 Prerequisites

Ensure you have the following before configuring the Schema Creator Utility:

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

- It is recommended to set the PGA_AGGREGATE_LIMIT database-parameter value sufficiently when Oracle 18c or 19c is installed.
- You must add a TNS entry before the installation.

6.3.2 Configure the Schema Creator Utility for RDBMS Installation

If the installation is being performed for RDBMS, provide the Pack-specific schema details in the `OFS_IIA_SCHEMA_IN.xml` file.

You can configure the following types of schemas:

- **CONFIG:** This schema holds the entities and other objects required for OFSAA setup configuration information. Only one CONFIG schema per OFSAA instance is permitted.
- **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.

6.3.2.1 Configure the OFS_IIA_SCHEMA_IN.xml File

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

Specify the database schemas required for the installation in the `OFS_IIA_SCHEMA_IN.xml` file. Update the values of the various tags and parameters available in this file before executing the schema creator utility.

This file must be configured only if the database is RDBMS.

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

1. Log in to the system as a non-root user.
2. Navigate to the `OFS_IIA_PACK/schema_creator/conf` directory.
3. Edit the `OFS_IIA_SCHEMA_IN.xml` file using a text editor.

Figure 9: Sample OFS_IIA_SCHEMA_IN.xml File

```

1 <!DOCTYPE OFS_IIA_SCHEMA_IN [
2 <APPACKSCHEMA>
3 <APP_PACK_ID>OFS_IIA_PACK</APP_PACK_ID>
4 <IS_TCPS>FALSE</IS_TCPS>
5 <JDBC_URL></JDBC_URL>
6 <JDBC_DRIVER>oracle.jdbc.driver.OracleDriver</JDBC_DRIVER>
7 <HOST></HOST>
8 <SETUPINFO NAME="DEV" PREFIX_SCHEMA_NAME="" />
9 <PASSWORD APPLYSAMEFORALL="Y" DEFAULT="" />
10 <!--
11 <ADV_SEC_OPTIONS>
12 <OPTION NAME="IDE" VALUE="TRUE"/>
13 <OPTION NAME="DATA_REDACT" VALUE="TRUE" />
14 </ADV_SEC_OPTIONS>
15 <TABLESPACES>
16 <TABLESPACE NAME="OFS_AAI_TBSF1" VALUE="TBS_USERS_1" DATAFILE="/scratch/oral2c/app/oracle/oradata/ENCDB/datafile/tbs_users1.dbf"
17 SIZE="500M" AUTOEXTEND="OFF" ENCRYPT="ON" />
18 <TABLESPACE NAME="OFS_AAI_TBSF2" VALUE="TBS_USERS_2" DATAFILE="/scratch/oral2c/app/oracle/oradata/ENCDB/datafile/tbs_users2.dbf"
19 SIZE="500M" AUTOEXTEND="OFF" ENCRYPT="OFF" />
20 </TABLESPACES>
21 <-->
22 <SCHEMAS>
23 <SCHEMA TYPE="CONFIG" NAME="ofsaconf" PASSWORD="" APP_ID="OFS_AAI" DEFAULTTABLESPACE="USERS" TEMPTABLESPACE="TEMP" INFODOM="" QUOTA="" />
24 <SCHEMA TYPE="ATOMIC" NAME="ofsaatm" PASSWORD="" APP_ID="OFS_IIA" APP_GRP="1" DEFAULTTABLESPACE="USERS" TEMPTABLESPACE="TEMP" INFODOM="" QUOTA="" />
25 </SCHEMAS>
26 </APPACKSCHEMA>

```

4. Configure the values as mentioned in the following table and save the file.

NOTE

On successful execution of the utility, the passwords entered in the `OFS_IIA_SCHEMA_IN.xml` file are nullified.

Table 22: OFS_IIA_SCHEMA_IN.xml file Parameters

Tag Name/Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
<APP_PACK_ID>	Seeded unique ID for the OFSSAA Application Pack	Y	OFS_IIA_PACK	Do not modify this value.
<IS_TCPS>	Enter if the TCPS configuration is required.	Y	Seeded, with FALSE as the default value.	Modify this to TRUE if you require the installer to uptake the configuration.
<JDBC_URL>	<p>Enter the JDBC URL.</p> <p>NOTE:</p> <p>You can enter the following JDBC URL types:</p> <ol style="list-style-type: none"> 3. RAC/ NON-RAC enabled database connectivity URL. 4. TCPS RAC/ NON-RAC enabled database connectivity URL provided the <IS_TCPS> tag value is TRUE. 5. Wallet-enabled JDBC URL. 	Y	<p>Example:</p> <p>jdbc:oracle:thin:@< DBSERVER IP/ HOST/ IP>:<PORT>:<SID></p> <p>or</p> <p>jdbc:oracle:thin:@//[HOS T][:PORT]/ SERVICE</p> <p>or</p> <p>jdbc:oracle:thin:@(DESCRI PTION=(ADDRESS_ LIST=(ADDRESS=(PROT OCOL=TCP)(HOST=[HO ST]))(port=[PORT]))(ADD RESS=(PROTOCOL=TCP) (HOST=[HOST]))(PORT=[PORT]))(LOAD_ BALANCE=yes)(FAILOV ER=yes))(CONNECT_ DATA=(SERVICE_ NAME=[SERVICE]))</p> <p>For example:</p> <p>jdbc:oracle:thin:@//dbhos t.server.com:1521/service 1</p> <p>or</p> <p>jdbc:oracle:thin:@//dbsho st.server.com:1521/scan-1</p> <p>or</p> <p>jdbc:oracle:thin:@(DESCRI PTION=(ADDRESS_ LIST=(ADDRESS=(PROT OCOL=TCP)(HOST=dbhost1.server.com)</p>	<p>Ensure to add an entry (with SID/ SERVICE NAME) in the <code>tnsnames.ora</code> file on the OFSAA server. The entry must match with the SID/ SERVICE NAME used in the JDBC URL.</p> <p>Ensure that you have configured:</p> <ol style="list-style-type: none"> 6. The correct Oracle Wallet with the credentials for stored Sys, Config, and Atomic Users. 7. The JDBC URL as follows: <pre>jdbc:oracle:thin:/@</pre> <p>For more information on how to configure Oracle Wallets for OFSAA Installation and Data Sources, see the OFS Analytical Applications Infrastructure Administration Guide.</p>

Tag Name/Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
			(port=1521))(ADDRESS=(PROTOCOL=TCP)(HOST=dbhost2.s erver.com)(PORT=1521))(LOAD_BALANCE=yes)(FAILOVER=yes))(CONNECT_DATA=(SERVICE_NAME=service1))) or <JDBC_URL>jdbc:oracle:thin:@(DESCRIPTION = (ADDRESS = (PROTOCOL =TCPS)(HOST = dbhost.server.com)(PORT = 2484))(CONNECT_DATA =(SERVER = DEDICATED)(SERVICE_NAME=SERVICEID))(security=(ssl_server_cert_dn=CN=dbhost))) or jdbc:oracle:thin:/@	
<JDBC_DRIVER>	This driver's name is seeded by default.	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	Hostname/ 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.

Tag Name/Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
<SETUPINFO>/NAME	<p>Enter the acronym for the type of implementation. This information is displayed on the OFSAA Home Page.</p> <p>On executing the schema creator utility, this value is prefixed with each schema name. For example: dev_ofsaconf, uat_ofsaatm.</p>	Y	<p>Seeded, with REG PREFIX_SCHEMA_NAME="N" as the default value.</p> <p>Accepts strings with a minimum length of two and a maximum of four.</p> <p>Example: DEV, SIT, PROD</p>	<p>This name appears on the OFSAA Landing Page as "Connected To: xxxx".</p> <p>The schemas that are created get this prefix. For example, dev_ofsaconf, uat_ofsaconf, and so on.</p>
<PASSWORD>/DEFAULT*	<p>Enter the password if you want to set a default password for all schemas.</p> <p>You also must set the APPLYSAME-FORALL attribute as Y to apply the default password for all the schemas.</p>	N	<p>Seeded, with oracle123 as the default value.</p> <p>The maximum length allowed is 30 characters. Special characters are not allowed.</p>	<p>On successful execution of the utility, the entered password in the OFS_<APP PACK>_SCHEMA_IN.xml file is cleared.</p>
<PASSWORD>/APPLYSAMEFORALL	<p>If you have entered Y in APPLYSAME-FORALL attribute and also have specified individual passwords for all the schemas, then the specified individual passwords will take precedence.</p>	Y	<p>Default N Permissible: Y or N.</p> <p>Enter Y if you want to apply the password specified in the DEFAULT attribute for all the schemas.</p> <p>If you enter as N, you must provide individual passwords for all schemas.</p>	<p>Setting this attribute value is mandatory if the DEFAULT attribute is set.</p>

Tag Name/Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
<SCHEMA>/TYPE	The different types of schemas that are supported in this release are ATOMIC and CONFIG. By default, the schemas types are seeded based on the Application Pack.	Y	ATOMIC/CONFIG	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 schemas can exist in the file.
<SCHEMA>/NAME	The schemas' names are seeded based on the Application Pack by default. You can edit the schema names if required. The Schema Name will have a prefix of the SETUPINFO/ NAME attribute.	Y	Seeded, with OFSCONFIG as the default value. The permissible length is 15 characters and only alphanumeric characters are allowed. No special characters are allowed except underscore '_'. .	SETUPOINFO/NAME attribute value is prefixed to the schema name being created. For example, if a name is set as 'ofsaatm' and setupinfo as 'uat', then the schema being created is 'uat_ofsaatm'.
<SCHEMA>/PASSWORD	Enter the password of the schema to be created. If this attribute is left blank, then the password specified in the <PASSWORD>/DEFAULT attribute is applied as the Schema Password.	N	The maximum length allowed is 30 characters. Special characters are not allowed.	It is mandatory to enter the password if you have set the <PASSWORD>/APPLYSAMEFORALL attribute as N.
<SCHEMA>/APP_ID	The Application ID is seeded based on the Application Pack by default.	Y	Unique seeded values are: OFS_AAI OFS_IIA	Identifies the Application/ Product for which the schema is being created. Do not edit this attribute value. Do not modify this value.

Tag Name/Attribute Name	Description	Mandatory (Y/ N)	Default Value/ 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	Seeded, with USERS as the default value. Permissible 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	Seeded, with TEMP as the default value. Permissible 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. Minimum: 500M or Unlimited on default Tablespace.	N	Permissible values are a minimum of 500M or UNLIMITED as the default value. Example: 600M/m 20G/g UNLIMITED/unlimited	Modify this value to grant the specified quota on the mentioned tablespace to the user.
<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	Seeded, with OFSINFDOM as the default value. Permissible length is 16 characters and only alphanumeric characters are allowed. No special characters are allowed.	

Tag Name/Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
<ADV_SEC_OPTIONS>/	Parent tag to hold Advance Security Options.	N		Uncomment the tag and edit if you want to add security options. For example, TDE and Data Redact. For details, see the example in the comments for the <TABLESPACE>/ENCRYPT tag.
<ADV_SEC_OPTIONS>/TDE	Tag to enable/disable TDE.	N	The default is FALSE. To enable TDE, set this 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 is FALSE. To enable DATA_REDACT, set this 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 following the table. When TDE is TRUE in ADV_SEC_OPTIONS, then the <TABLESPACES> tag must be present in the XML file.
<TABLESPACE>/NAME	Logical Name of the tablespace to be created.	Y		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.

Tag Name/Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
<TABLESPACE>/ENCRYPT	Specifies if the tablespace(s) must be encrypted using TDE	Y	ON or OFF	<p>Set to ON to ensure that the tablespaces when created are encrypted using TDE.</p> <p>NOTE: Encryption of tablespaces requires enabling Transparent Data Encryption (TDE) on the Database Server.</p> <p>Example: The following snippet shows that TDE is enabled and hence the tablespace is shown with encryption ON.</p> <pre> <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/oral9c/app/oracle/orada ta/OFSPQA19cDB/ts_users1.dbf" SIZE="500M" AUTOEXTEND="ON" ENCRYPT="ON" /> <TABLESPACE NAME="OFS_AAI_TBSP_2" VALUE="TS_USERS2" DATAFILE="/ scratch/oral9c/app/oracle/orada ta/OFSPQA19cDB/ts_users2.dbf" SIZE="500M" AUTOEXTEND="ON" ENCRYPT="ON" /> </TABLESPACES> <SCHEMAS> <SCHEMA TYPE="CONFIG" NAME="ofsaaconf" PASSWORD="" APP_ID="OFS_AAI" </pre>

Tag Name/Attribute Name	Description	Mandatory (Y/ N)	Default Value/ Permissible Value	Comments
				<pre> DEFAULTTABLESPACE="##OFS_AAI_TB SP_1##" TEMPTABLESPACE="TEMP" QUOTA="unlimited"/> <SCHEMA TYPE="ATOMIC" NAME="ofsaaatm" PASSWORD="" APP_ID="OFS_AAAI" DEFAULTTABLESPACE="##OFS_AAI_TB SP_2##" TEMPTABLESPACE="TEMP" QUOTA="unlimited" INFODOM="OFSAAAIIINFO"/> </SCHEMAS> </pre>

6.4 Execute the Schema Creator Utility

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

- [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](#)

After creating the schema, proceed to [Configure the OFSAAI InstallConfig.xml File](#).

6.4.1 Execute the Schema Creator Utility in Offline Mode

In the Offline mode, the utility generates an SQL script with all the required DDLs for Users, Objects, and Grants. This script must be executed by the DBA on the appropriate database identified for OFSAA usage. If you do not have the SYSDBA privileges, you can execute the Schema Creator Utility in Offline mode and generate the script file that contains the Schemas, Objects, and Grants information. Subsequently, an SYSDBA user can execute the script file manually. To run the OFSAA Application Pack installer in Silent mode, it is mandatory to execute the schema creator utility with the `-s` option.

To execute the utility in Offline mode, you must have a database user with the following GRANTS (alternatively, you can also connect as a user with SYSDBA 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 following path: `OFS_IIA_PACK/schema_creator/bin`.
3. Execute the `osc.sh` file using the following command:

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

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).

4. Enter `Y` to proceed.
5. Enter the DB Username with SELECT privileges.

6. Enter the User Password.
7. 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 or N).

8. 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 or N).

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

Schema Creator executed successfully. Please execute `scratch/ofsaapp/OFS_IIA_PACK/schema_creator/sysdba_output_scripts.sql` before proceeding with the installation.

NOTE If there are any errors during the SQL script execution, reconfigure the `OFS_IIA_SCHEMA_IN.xml`, and repeat steps in this procedure to execute the utility. This regenerates the scripts with the correct information.

9. Navigate to the `OFS_IIA_PACK/schema_creator` directory.
10. Log in to SQLPLUS as a user having SYSDBA Privileges.
11. Execute the `sysdba_output_scripts.sql` file using the following command:

```
SQL>@sysdba_output_scripts.sql
```

Alternatively, you can copy the `sysdba_output_scripts.sql` file and `SQLScripts` directory to a remote server and execute the `sysdba_output_scripts.sql` file, after providing appropriate execute permissions.

12. Make a TNS entry for the new users created. For details, see [Add the TNS entries in TNSNAMES.ORA file](#) section.

NOTE See the `sysdba_output_scripts.log` file for execution status. If there are any errors, contact [My Oracle Support](#). If there are no errors in the execution, the log file is empty.

As a result of this task, the `OFS_IIA_SCHEMA_OUTPUT.XML` file is generated. Do not modify this file.

After creating the schema, proceed to [Configure the OFSAI InstallConfig.xml File](#) section.

6.4.2 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.

If you want to run the OFSAA Application Pack Installer in Online mode, it is mandatory to execute the schema creator utility with the -s option.

To execute the utility with the -s option in online mode, follow these steps:

1. Edit the file
OFS_IIA_PACK/schema_creator/conf/OFS_IIA_SCHEMA_IN.xml in a text editor. See [Configure the OFS IIA SCHEMA IN.xml File](#) section for values to modify in the XML file.
2. Execute the utility with -s option. For Example: `./osc.sh -s`
3. Make a TNS entry for the new users created. For details, see [Add the TNS entries in TNSNAMES.ORA file](#).

The following message is displayed:

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/y or N/n).

4. Enter `Y` to proceed.

The following message is displayed:

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

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

As a result of this task is the OFS_IIA_SCHEMA_OUTPUT.XML file is generated. Do not modify this file.

6.4.3 Execute the Schema Creator Utility in TCPS Mode

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

Prerequisite:

Configure the Oracle Wallet with trusted certificates between the DB Server with TCPS configured and the DBClient to enable communication through the SSL protocol.

NOTE

You can also use Oracle Wallet to support OFSAA for storing Config and Atomic Schema credentials. To add OFSAA Config and Atomic Schema credentials to Oracle Wallet, see the [OFS Analytical Applications Infrastructure Administration Guide](#).

For example, all the database utilities such as sqlplus, tnsping, and sqlldr must work between the Client and the Server.

To execute the utility, follow these steps:

1. Edit the file
OFS_IIA_PACK/schema_creator/conf/OFS_IIA_SCHEMA_IN.xml in the text editor. See the tables in the [Configure the OFS_IIA_SCHEMA_IN.xml File](#) section for values to modify in the XML file.

2. Execute the utility with -s option.

```
./osc.sh -s TCPS <WALLET_HOME>
```

For example: \$./osc.sh -s TCPS /scratch/oraofss/wallet

Figure 10: Schema Creation in the TCPS Mode

```
/scratch/aa181ssl>cd /scratch/aa181ssl/OFS_AAAI_PACK/schema_creator/bin
/scratch/aa181ssl/OFS_AAAI_PACK/schema_creator/bin>./osc.sh TCPS /scratch/aa181ssl/wallet
Error: - Please provide proper arguments
/scratch/aa181ssl/OFS_AAAI_PACK/schema_creator/bin>./osc.sh -s TCPS /scratch/aa181ssl/wallet
-s
TCPS
/scratch/aa181ssl/wallet
-Doracle.net.tns_admin=/scratch/aa181ssl -Doracle.net.wallet_location=(SOURCE=(METHOD=file) (METHOD_DATA=(DIRECTORY=/scratch/aa181ssl/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
```

3. 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).

4. Enter Y to proceed.
5. 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 11: 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 09 09 .....
You have chosen to install this Application Pack on "t81s_ofsaaatm" ATOMIC schema. Do you want to proceed? (Y/N)
Y
```

6. Enter Y to proceed.

Figure 12: 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/aa181ssl/OFS_AAAI_PACK/schema_creator/bin>
```

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

7. After Schema creation is successful, proceed to [Configure the OFSAAI InstallConfig.xml File](#) section.

6.4.4 Execute the Schema Creator Utility while Installing Subsequent Applications Pack

NOTE If upgrading the App on App, you must provide the same schema details you provided earlier

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 and the same Atomic Schema of the existing application pack or on a new Information Domain and the same Atomic Schema of the existing application pack. You can execute the schema creator utility either in Online or Offline mode.

The following is an example of executing the schema creator utility while installing OFS Insurance Accounting Analyzer over an existing Application Pack in an offline mode:

1. Edit the file
`OFS_IIA_PACK/schema_creator/conf/OFS_IIA_SCHEMA_IN.xml` in a text editor. See the [Configure the OFS_IIA_SCHEMA_IN.xml File](#) section for values you must modify in the XML file.
2. Execute the utility with `-s` option. For Example: `./osc.sh -s -o`

After successful schema creation, execute the `sysdba_output_scripts.sql` file

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. Enter Y or y to start the schema creation.
5. If you enter N or n, the list of Atomic Users is displayed.
6. Select the Atomic User on which you want to install the application pack.
7. Make a TNS entry for the new users created. For details, see [Add the TNS entries in TNSNAMES.ORA file](#) section.

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

6.5 Configure the OFSAAI_InstallConfig.xml File

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

1. Navigate to the `OFS_IIA_PACK/OFS_AAI/conf/` directory.
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 23: OFSAAI_InstallConfig.xml file Parameters

InteractionVariable Name	Significance and Expected Value	Mandatory
<Layer name="GENERAL">		
InteractionGroup name="WebServerType"		
WEBAPPSERVERTYPE	Identifies the web application server on which the OFSAA Infrastructure web components are deployed. Set the following numeric value depending on the type of web application server: <ul style="list-style-type: none"> • Apache Tomcat = 1 • IBM WebSphere Application Server = 2 • Oracle WebLogic Server = 3 For example, <code><InteractionVariable name="WEBAPPSERVERTYPE">3</InteractionVariable></code>	Yes
InteractionGroup name="OFSAA Infrastructure Server Details"		
DBSERVER_IP	Identifies the hostname or IP address of the system on which the Database Engine is hosted. 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>	Yes

InteractionVariable Name	Significance and Expected Value	Mandatory
InteractionGroup name="Database Details"		
ORACLE_SID/SERVICE_NAME	Identifies the Oracle DB Instance SID or SERVICE_NAME Note: The Oracle_SID value must be the same as it is mentioned in JDBC_URL. For example, <InteractionVariable name="ORACLE_SID/SERVICE_NAME">ofsaser</InteractionVariable>	Yes
ABS_DRIVER_PATH	Identifies the directory where the JDBC driver (ojdbc<version>.jar) exists. This is typically the \$ORACLE_HOME/jdbc/lib directory. For example, <InteractionVariable name="ABS_DRIVER_PATH">"/oradata6/revwb7/oracle</InteractionVariable> NOTE: See Hardware and Software Requirements to identify the correct ojdbc<version>.jar file version to be copied.	Yes
InteractionGroup name="OLAP Detail"		
OLAP_SERVER_IMPLEMENTATION	Identifies whether the OFSAA Infrastructure OLAP component must be configured. It depends on whether you intend to use the OLAP feature. The following numeric value must be set depending on the choice: <ul style="list-style-type: none"> • YES: 1 • NO: 0 NOTE: If the value for OLAP_SERVER_IMPLEMENTATION is set to 1, the installer checks if the following environment variables are set in the .profile file: <ul style="list-style-type: none"> • ARBORPATH • HYPERION_HOME • ESSBASEPATH 	No
InteractionGroup name="SFTP Details"		
SFTP_ENABLE	Identifies if the SFTP (Secure File Transfer Protocol) feature is to be enabled. The following numeric value must be set depending on the choice: <ul style="list-style-type: none"> • SFTP: 1 • FTP: 0 	Yes
NOTE: The default value for SFTP_ENABLE is 1, which signifies that SFTP is used. Oracle recommends using SFTP instead of FTP because SFTP is more secure. However, you can ignore this recommendation and use FTP by setting SFTP_ENABLE to 0. You can change this selection later from the OFSAAI administration interface. Set SFTP_ENABLE to -1 to configure ftpshare and weblocal path as a local path mounted for the OFSAAI server.		
FILE_TRANSFER_PORT	Identifies the port used for the file transfer service. The default value specified is 22 (SFTP). Specify the value like 21 or any other PORT value if the value for SFTP_ENABLE is 0. For example, <InteractionVariable name="FILE_TRANSFER_PORT">21</InteractionVariable>	Yes
InteractionGroup name="Locale Detail"		

InteractionVariable Name	Significance and Expected Value	Mandatory
LOCALE	Identifies the locale information to be used during the installation. This release of the OFSAA Infrastructure supports only US English. For example, <code><InteractionVariable name="LOCALE">en_US</InteractionVariable></code>	Yes
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 <code>HTTPS_ENABLE</code> 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.		
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, <code><InteractionVariable name="HTTPS_ENABLE">0</InteractionVariable></code>	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. If a separate HTTP Server is not available, then the value must be Web application server IP/Hostname. For example, <code><InteractionVariable name="WEB_SERVER_IP">10.11.12.13</InteractionVariable></code> or <code><InteractionVariable name="WEB_SERVER_IP">myweb.server.com</InteractionVariable></code>	Yes
WEB_SERVER_PORT	<ul style="list-style-type: none"> • Identifies the Web Server Port, which is typically 80 for non-SSL if the <code>HTTPS_ENABLE</code> variable is 0 and 443 for SSL if the <code>HTTPS_ENABLE</code> variable is 1. If a separate HTTP Server exists, the port value must be the value configured for the Web Server. For example, <code><InteractionVariable name="WEB_SERVER_PORT">80</InteractionVariable></code>	No

InteractionVariable Name	Significance and Expected Value	Mandatory
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> <pre><scheme>://<host>:<port>/<context-name>/login.jsp</pre> <p>The following is an example:</p> <pre>https://myweb:443/ofsaadev/login.jsp</pre> <p>For example, <InteractionVariable name="CONTEXT_NAME">ofsaadev</InteractionVariable></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, /oradata6/ revwb7/tomcat/webapps/. • For WebSphere, specify the WebSphere path as <WebSphere profile directory>/installedApps/<NodeCellName>. • For example, /data2/test//WebSphere/AppServer/profiles/<Profile_Name>/installedApps/aiximfNode01Cell, where aix-imf is the Hostname. • For WebLogic, specify the WebLogic home directory path. For example, /<WebLogic home directory path>/bea/wlserver_10.3 	Yes
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 usage of the application.</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, <InteractionVariable name="WEBLOGIC_DOMAIN_HOME">/home/weblogic/bea/user_projects/domains/mydomain</InteractionVariable></p>	Yes. Specify the value only if WEBAPPSERVERTYPE is set as 3 (WebLogic)
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). The user mentioned in this parameter in the following example must have Read, Write, and Execute (RWX) permission on the directory.</p> <p>For example, <InteractionVariable name="OFSAAI_FTPSHARE_PATH">"/oradata6/revwb7/ftpsare</InteractionVariable></p>	Yes

InteractionVariable Name	Significance and Expected Value	Mandatory
OFSAAI_SFTP_USER_ID	The user mentioned in this parameter must have Read, Write, and Execute (RWX) permission on the directory.	Yes
OFSAAI_SFTP_PRIVATE_KEY	Identifies the SFTP private key for OFSAAI. For example, <InteractionVariable name="OFSAAI_SFTP_PRIVATE_KEY">/home/ofsaapp/.ssh/id_rsa</InteractionVariable> By default, the value is NA , which indicates that, for authentication, you are prompted to enter the password for the user <OFSAAI_SFTP_USER_ID>. For more information on how to generate an SFTP Private key, see the Set Up SFTP Private Key section.	No
OFSAAI_SFTP_PASSPHRASE	Identifies the passphrase for the SFTP private key for OFSAAI. For example, InteractionVariable name="OFSAAI_SFTP_PASSPHRASE">enter a pass phrase here</InteractionVariable> By default, the value is NA . If the OFSAAI_SFTP_PRIVATE_KEY value is given and the OFSAAI_SFTP_PASSPHRASE value is NA , then the passphrase is identified as empty.	No

6.5.1 Set Up the SFTP Private Key

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

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

```
ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key
(/home/ofsaapp/.ssh/id_rsa):
Created directory '/home/ofsaapp/.ssh'.
Enter passphrase (empty for no passphrase):
Enter the 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

6.6 Install the Oracle Insurance Accounting Analyzer Application Pack

ATTENTION

Before you begin the installation, configure and execute the following files:

1. [Configure the OS File System Settings and Environment Settings in the .profile File](#)
2. [Configure OFS_IIA_PACK.xml File](#)
3. [Configure OFS_IIA_SCHEMA_IN.xml](#)
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](#)

NOTE

- For enabling the Right to be Forgotten, see the [Right to be Forgotten](#).
- For enabling Data Redaction, see the [Data Redaction](#) section. For more details, see the Data Redaction section, under Data Security and Data Privacy chapter in the [OFS Analytical Applications Infrastructure Administration Guide](#).

6.6.1 Installation

To install the Oracle Insurance Accounting Analyzer Application Pack, follow these steps:

1. Log in to the system as a non-root user.
2. Identify a directory for installation and set the same in the user `.profile` file as follows:

```
FIC_HOME=<OFSAA Installation Directory>
export FIC_HOME
```

3. Execute the user `.profile` file.
4. Navigate to the `OFS_IIA_PACK` directory.

5. Rename the `OFS_IIA_PACK/schema_creator/conf/OFS_IIA_SCHEMA_IN.xml.Template` file to `OFS_IIA_PACK/schema_creator/conf/OFS_IIA_SCHEMA_IN.xml`.
6. Execute the schema creator utility with the `-s` option.
7. Navigate to the path `OFS_IIA_PACK/conf/OFS_IIA_PACK.xml`, and enter YES in the enable tag for `OFS_AAI` and `OFS_AAAI`.
8. Installation is achieved through the properties file (`Silent.props`) that must be updated with proper values, before attempting to install using silent mode. Edit the parameters in the `Silent.props` file and specify the parameters as per the requirements.

The following table lists all the properties that must be specified:

Table 2: Parameters for the Silent.props File

Property Name	Description of Property	Permissible values	Comments
LOG_MODE	Specify Log Mode	1 = Debug Mode 0 = General Mode [Passwords will not be printed in the log file]	Password will be printed in the log file. The default value is 0.
APPFTP_LOG_PATH	Specify the Infodom Maintenance log path (to be created) for the new Infodom. Ignore if you are doing the installation on an existing information domain.	User Input	
DBFTP_LOG_PATH	Specify the Infodom Maintenance log path (to be created) for the new Infodom. Ignore if you are doing the installation on an existing information domain.	User Input	
UPLOAD_MODEL	Specify whether you want to perform Model Upload.	0 = If you have already performed Model Upload and want to skip the model upload process. 1 = If you want to perform Model Upload.	The default value is 1.
MODEL_TYPE	Specify whether you want to use the released data model or customized data model for the model upload process.	0 = If you want to upload the released data model. 1 = If you want to upload the customized data model.	The default value is 0.

Property Name	Description of Property	Permissible values	Comments
DATAMODEL DM_DIRECTORY	Specify the path (DM_DIRECTORY) and file (DATAMODEL) name for the customized data model. Mandatory only if you want to upload the customized data model i.e you have specified MODEL_TYPE=1.	User Input	
SEGMENT_1_CODE	Specify the IIA Segment Code.	IIA809SEG	The default value is IIA809SEG.
OBI_HOST	Specify the Host Name of the OBIEE Server	User Input	This field should NOT be left blank. If OBIEE is not configured at the moment, ensure that you provide a dummy value in this field
OBI_PORT	Specify the Port Number of the OBIEE Server	User Input	This field should NOT be left blank. If OBIEE is not configured at the moment, ensure that you provide a dummy value in this field.
OBI_CONTEXT	Specify the Context Name of the OBIEE Server	User Input	This field should NOT be left blank. If OBIEE is not configured at the moment, ensure that you provide a dummy value in this field.
ETL_APPSRC_TYPE	Specify if you want to create a new ETL App/Src pair or use an existing one.	0 = If you want to create a new ETL app/src pair. 1 = If you want to use an existing pair.	The default value is 1.
ETL_SRC_1_DESC	ETL Staging source description.	Describe the ETL Src. Mandatory if you want to create a new ETL Src if you have specified ETL_APPSRC_TYPE= 1.	The default value is Staging.

Property Name	Description of Property	Permissible values	Comments
ETL_SRC_2_DESC	ETL Processing source description.	Describe the ETL Src. Mandatory if you want to create a new ETL Src if you have specified ETL_APPSRC_TYPE= 1.	The default value is Processing.
ETL_SRC_1_NAME	ETL Staging source name.	User Input	The default value is Staging. Specify the ETL Source Name into ETL Area Definitions to be deployed.
ETL_SRC_2_NAME	ETL Processing source name.	User Input	The default value is Processing. Specify the ETL Source Name into ETL Area Definitions to be deployed.
SANDBOX_1_CODE	Specify the Code of the sandbox	User Input	The default value is MDLSEG.
SANDBOX_1_TYPE	Specify the sandbox type.	User Input	The default value is RDBMS.
IIA_SEGMENT	Specify the name of the Segment for Forecast Interest Rates sandbox infodom	User Input	
IIA_APPSERVER_FTP_LOGPATH	Specify the sandbox Maintenance log path (to be created) for the Forecast Interest Rates sandbox.	User Input	
IIA_DBSERVER_FTP_LOGPATH	Specify the sandbox Maintenance log path (to be created) for the Forecast Interest Rates sandbox.	User Input	

ATTENTION

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

9. Enter the following command in the console to execute the application pack installer with the Silent option.

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

10. The installer proceeds with Pre-Installation Checks.

11. Enter the OFSAA Processing Tier FTP or SFTP password value and proceed, when prompted in the command prompt.

Table 24: Console Prompt: Enter the OFSAA Processing Tier FTP/SFTP Password

Console Prompts	User Inputs
Please enter OFSAA Processing Tier FTP or SFTP password	Enter the password to access the processing tier in the application server. NOTE: If the prompt reads as follows, enter the username and password for accessing the product Staging or Metadata Repository FTPSHARE: <ul style="list-style-type: none"> • Kerberos username [user] • Kerberos password for user

12. The process displays the OFSAA License. Enter **Y** and proceed.
13. The installer installs the AAI application.
14. After the platform is installed, the Oracle Insurance Accounting Analyzer installation begins.
15. After Data Model Upload is complete, verify the installation logs in the log directories mentioned in the [Verify the Log File Information](#) section.
16. After successful IIA pack installation, the WAR file is generated and all the servers are verified and the installation complete message is displayed.
17. The OFSAA Infrastructure installation performs a post-install health check automatically on the successful installation of the product.
18. On completion of the installation, verify the installation log files mentioned in the [Verify the Log File Information](#) section.

NOTE

- Perform steps mentioned in the [Post-Installation](#) section.
- Ensure that the OFS_IIA_PACK installer directory with its contents is preserved, for enabling additional products in the future.

6.6.2 Verify the Log File Information

See the following logs files for more information:

- See the log files in the locations, for OFS Insurance Accounting Analyzer installation.
- See the log file (or files) in the OFS_IIA_PACK/OFS_AAI/logs/ directory for the Infrastructure installation log.
- See the OFSAAInfrastructure_Install.log file located at the \$FIC_HOME directory for the Infrastructure installation log.
- See the pack.install log file in the OFS_IIA_PACK/logs directory.

NOTE

If you are installing on the Cloud infrastructure, refer to the sections [Updating the Config Schema](#) [Editing the WDSL Property File](#).

7 Post-installation

On successful installation of the Oracle Financial Services IIA application pack, follow the post-installation procedures mentioned in [Post-installation Checklist](#).

NOTE

You must clear the application cache before deploying the Application Pack web archive file. This applies to all web servers (WebSphere, WebLogic, Tomcat). For more information, see the [Clear Application Cache](#) section.

Topics:

- [Post-installation Checklist](#)
- [Patch Oracle Insurance Accounting Analyzer](#)
- [Updating the Config Schema](#)
- [Assign Grants for Schemas](#)
- [Editing the WDSL Property File](#)
- [Backup the OFS_IIA_SCHEMA_IN.xml, OFS_IIA_SCHEMA_OUTPUT.xml, and Silent.props Files](#)
- [Stop the Infrastructure Services](#)
- [Create and Deploy the EAR/WAR Files](#)
- [Start the Infrastructure Services](#)
- [Access the OFSAA Application](#)
- [OFSAA Landing Page](#)
- [Configure Tomcat](#)
- [Change the ICC Batch Ownership](#)
- [Update OBIEE URL](#)
- [Configure Data Source](#)
- [Create and Deploy the EAR or WAR Files](#)
- [Configure the excludeURLList.cfg File](#)
- [Configure Data Redaction in OFSAA](#)
- [Data Protection Implementation in OFSAA](#)
- [Post-Deployment Configurations](#)

7.1 Post-Installation Checklist

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

NOTE

See the *Post-Installation* section in the [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#) to complete the following checklist procedures.

Table 25: Post-installation Checklist

Sl. No.	Post-installation Activity
1	Verify that all patches are successfully installed.
2	Update the Config Schema. Note: This step is applicable only for deployment on the Oracle Cloud Infrastructure.
3	Edit the WDSL Property File. Note: This step is applicable only for deployment on the Oracle Cloud Infrastructure.
4	Back up the OFS_IIA_SCHEMA_IN.xml, OFS_IIA_SCHEMA_OUTPUT.xml, and Silent.props files.
5	Stop the OFSAA Infrastructure services.
6	Start the OFSAA Infrastructure services.
7	Create and deploy EAR or WAR files.
8	Configure the browser settings for the Internet.
9	Configure the webserver.
10	Configure the Resource Reference in web application servers.
11	Configure the Work Manager in the web application servers.
12	EAR/WAR File - Build Once and Deploy Across Multiple OFSAA Instances.
13	Access the OFSAA application.
14	Configure excludeURLList.cfg file.
15	Configure Tomcat.
16	Change the ICC batch ownership.
17	Update the OBIEE URL.
18	Configure Data Source.
19	Set Data Redaction in Oracle Insurance Accounting Analyzer.
20	Implement Data Protection in OFSAA.
21	<p>Post-deployment Configuration.</p> <ul style="list-style-type: none"> • OBIEE Configuration – Deploy Oracle Insurance Accounting Analyzer Analytics. • Logging as System Administrator. • Create Application Users. • Map the Application User (or Users) to User Groups. • IIA Pack User Group Names.

7.2 Mandatory Patches

The following table includes information about the mandatory patch that must be applied:

Table 26: Mandatory Patches

One-Off Patch	Description
33663417	Ensure that whenever any installation or upgrade or an incremental patch is applied, the mandatory patch 33663417 for Log4J must be reapplied. For more information, see the MOS Doc ID 2827801.1 .
32548944	This is a mandatory OFS AAI one-off patch.
33995565	This is a mandatory AAI one-off patch.
34058716	This is a mandatory AAI one-off patch.

7.3 Patch Oracle Insurance Accounting Analyzer

Oracle strongly recommends installing the latest available patch set to be up-to-date with the various releases of the OFSAA product. Contact [My Oracle Support](#). for more information on the latest release.

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

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

1. Navigate to the `$FIC_WEB_HOME/webroot/WEB-INF/` folder and open `web.xml` file.
2. Enter the following in the `web.xml` file.

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

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

```
<servlet>
<servlet-name>CommonRETServlet</servlet-name>
<servlet-
class>org.glassfish.jersey.servlet.ServletContainer</servlet-
class>
<init-param>
<param-name>javax.ws.rs.Application</param-name>
```

```
<param-
value>com.ofs.fsapps.commonapps.util.ApplicationResourceConfig
</param-value>
</init-param>
<load-on-startup>1</load-on-startup>
</servlet>
```

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

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

5. Save and close the file.

7.5 Updating the Config Schema

Update the configuration set `paramvalue` to `Y` in the Config Schema:

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

```
update configuration set paramvalue='Y' where
paramname='IS_CLOUD_INSTALL'; commit;
```

7.6 Assign Grants for Schemas

See Assign Grants for Schemas section in the [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#) on how to assign grants for the schemas.

7.7 Editing the WDSL Property File

To edit the WDSL property file, follow these steps:

1. Connect to the Compute virtual machine on which the OFSAA product is installed.
2. Navigate to the `$FIC_HOME/ficdb/conf/` directory.
3. Edit the `subLedgerRun.properties` file.
4. Change the parameter in the WDSL property file to point to the WebLogic server (any of the nodes) and the listener port that is corresponding to that node.

7.8 Backup the OFS_IIA_SCHEMA_IN.xml, OFS_IIA_SCHEMA_OUTPUT.xml, and Silent.props Files

Backup the `OFS_IIA_SCHEMA_IN.xml`, `OFS_IIA_SCHEMA_OUTPUT.xml`, and `Silent.props` files as they can be reused when upgrading existing applications or installing new applications.

Table 27: Directory of Files to Backup

File Name	Directory
OFS_IIA_SCHEMA_IN.xml	OFS_IIA_PACK/schema_creator/conf
OFS_IIA_SCHEMA_OUTPUT.xml	OFS_IIA_PACK/schema_creator/
Silent.props	OFS_IIA_PACK/appsLibConfig/conf

7.9 Stop the Infrastructure Services

See [Stop the Infrastructure Services](#) in OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide for details.

7.10 Create and Deploy the EAR or WAR Files

See [Create and Deploy the EAR or WAR Files](#) in OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide for details.

7.11 EAR or WAR File - Build Once and Deploy Across Multiple OFSAA Instances

See [EAR or WAR File - Build Once and Deploy Across Multiple OFSAA Instances](#) in OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide for details.

7.12 Start the Infrastructure Services

See [Start the Infrastructure Services](#) in OFS AAI Installation Guide for details.

7.13 Access the OFSAA Application

Before accessing the OFSAA application ensure the Internet Settings are configured.

To access the OFSAA application, follow these steps:

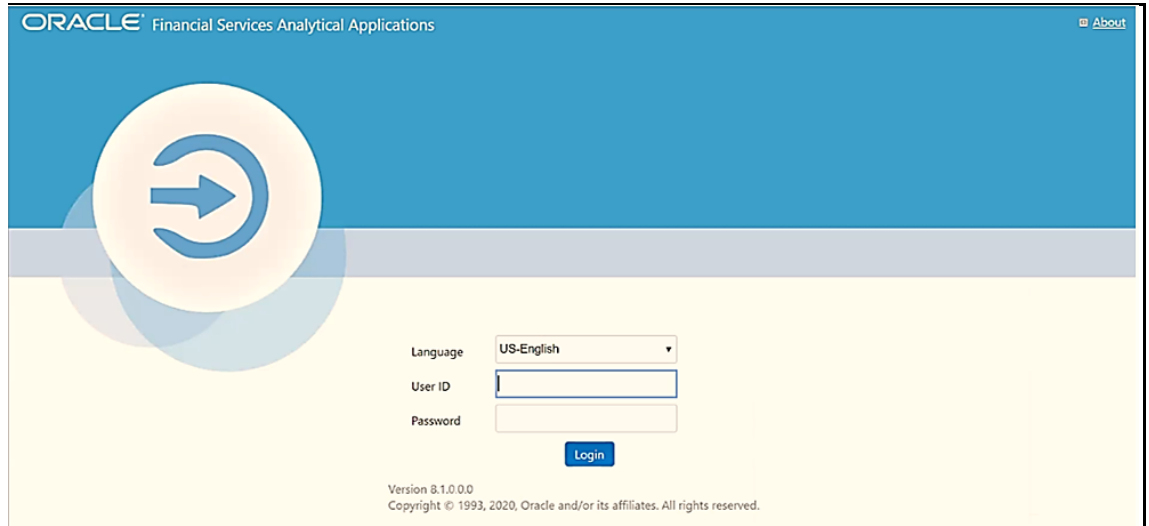
1. Open a browser and enter the URL in the following format:

```
<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 13: 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 login, you are prompted to change the password.

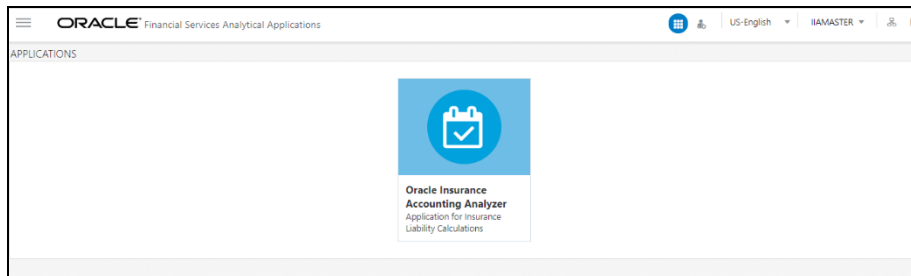
ATTENTION

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

7.13.1 OFSAA Landing Page

On successful login, the *OFSAA Landing* screen is displayed.

Figure 14: OFSAA Landing screen

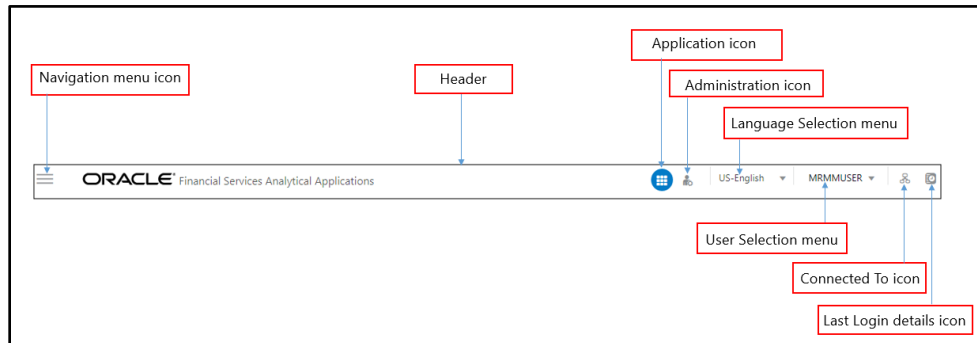


OFSAA Landing screen shows the available Applications as tiles, for which a user has access. Clicking the respective Application tile launches that particular application. You can change the landing page based on your preference.

7.13.1.1 Masthead

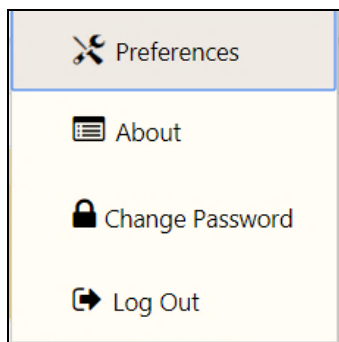
This section describes the user interface components in the OFSAA Landing page.

Figure 15: User Interface Components



- **Navigation Menu:** This icon is used to trigger the Application Navigation Drawer.
- **Application Icon:** This icon is used to show the available Applications installed in your environment at any time.
- **Administration Icon:** This icon is used to go to the *Administration* window. The *Administration* window displays modules like System Configuration, Identity Management, Database Details, manage OFSAA Product Licenses, Create New Application, Information Domain, Translation Tools, and process Modelling Framework as Tiles.
- **Reports Icon:** This icon is used to launch various User Reports such as user Status Report, User Attribute Report, User Admin Activity Report, User Access Report, and Audit Trial Report.
- **Language Menu:** It displays the language you selected in the OFSAA Login Screen. The language options displayed in the Language Menu are based on the language packs installed in your OFSAA instance. Using this menu, you can change the language at any point in time.
- **User Menu:** Clicking this icon displays the following menu:

Figure 16: User Menu



- **Preferences:** To set the OFSAA Landing Page.
- **Change Password:** To change your password. For more information, see the *Change Password* section in the [OFS AAI User Guide](#). This option is available only if SMS Authorization is configured.
- **Log Out:** To log out from OFSAA applications.

- **Last Login Details:** This displays the last login details as shown.

Figure 17: Last Login Details

```
Last Login Date : 05/13/2018 20:28:46 PM
Last Failed Login Date : 05/11/2018 09:27:26
AM
```

7.13.1.2 Navigation Drawer

To launch the navigation drawer, follow these steps:


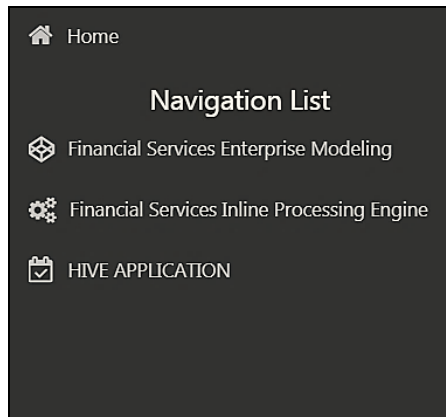
1. Click the **Navigation menu**  to launch the Navigation Drawer as shown.

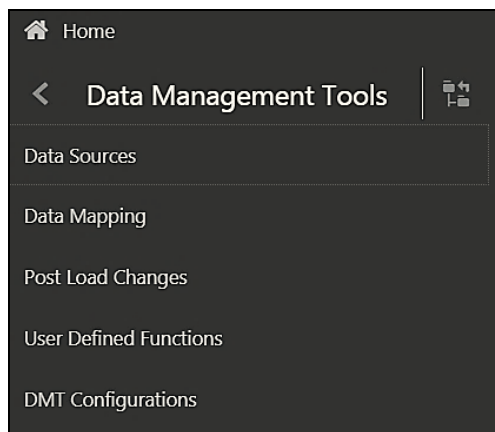
Figure 18: Navigation Drawer



Here the navigation items appear as a list. The First Level menu shows the installed applications. Clicking an application displays the second-level menu with the application name and Common tasks menu. The arrangement of the menu depends on your installed application.

2. Clicking an item in the menu displays the next level sub-menu and so on. For example, to display Data Sources, click **Financial Services Enterprise Modeling** select **Data Management** select **Data Management Framework**, select **Data Management Tools**, and then select **Data Sources**.

Figure 19: Navigation Drawer Menus and Submenus




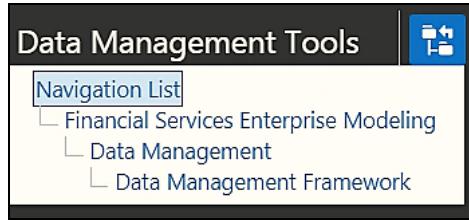
3. Click  **Hierarchical Menu** to display the navigation path of the current submenu as shown.

Figure 20: Navigation Submenu

4. The RHS Content Area shows the Summary page of Data Sources. Click anywhere in the Content Area to hide the Navigation Drawer. To launch it back, click the Navigation menu .
5. Click **Home** to display the OFSAA Landing Screen.

7.13.1.3 System Configuration

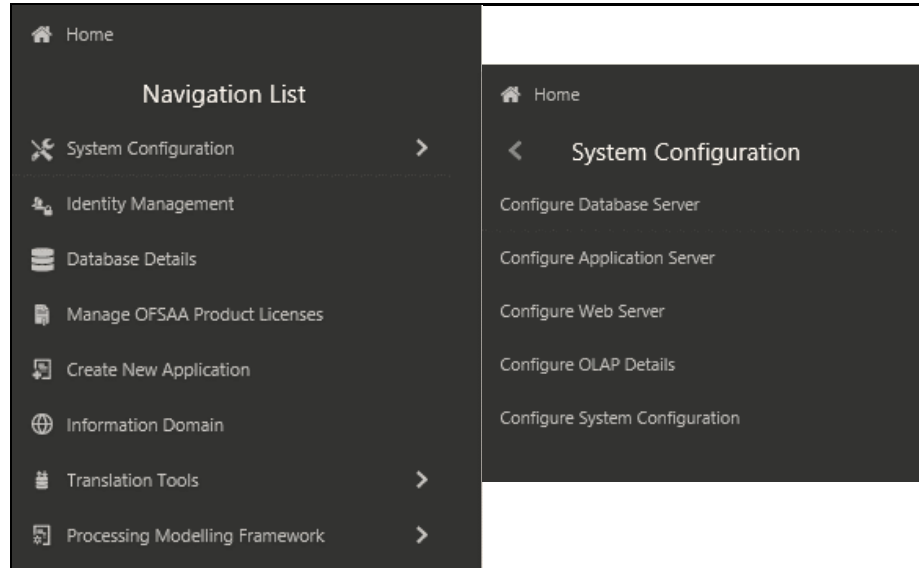
The Administration and Configuration section allows the System Administrators to configure the Server details, Database details, OLAP details, and Information Domain along with the other Configuration process such as segment and metadata mapping, and mapping segment to security. System Configuration is mostly a one-time activity that helps the System administrator to make the Infrastructure system operational for usage.

7.13.1.3.1 Navigate to System Configuration

Click the **Administration Icon** from the header to display the Administration tools in the Tiles menu. Click **System Configuration** from the Tiles menu to view a submenu list.

NOTE

After you have accessed a tool from the submenu, the options are also available in the Navigation List to the left. Click the **Navigation menu** to access the Navigation List.

Figure 21: System Configuration Submenu

You (System Administrator) must have full access rights to the ftpshare directory with the appropriate User ID and password to add and modify the server details.

7.13.1.3.2 Components of System Configuration

System Configuration consists of the following sections.

- Database Server
- Application Server
- Web Server
- Database Details
- OLAP Details
- Information Domain
- Configuration
- Create Application

7.14 View OFSAA Product Licenses after Installation of Application Pack

In an integrated environment, where you have multiple applications installed on the same domain or infrastructure, OFSAAI allows you to see the other licensed applications through the UI. For more information, see the View OFSAA Product Licenses after Installation of Application Pack in the [OFS Analytical Applications Infrastructure User Guide Release 8.1.1.0.0](#).

7.15 Configure Tomcat

To stop generating static content with one print statement per input line, you must configure the `web.xml` file.

To configure the `web.xml` file, perform the following steps:

1. Navigate to the `tomcat/conf` directory.
2. Edit the `web.xml` file as follows:
3. Set the mapped file parameter to `False` in the servlet tag mentioned with

```
<servlet-name>jsp</servlet-name>.
<init-param>
<param-name>mappedfile</param-name>
<param-value>>false</param-value>
</init-param>
```

7.16 Change the ICC Batch Ownership

All seeded Batches in the Oracle Insurance Accounting Analyzer pack are automatically assigned to the `SYSADMN` user during installation. To view 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:

- `from user` 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 of that `Infodom` will be changed.

7.17 Update OBIEE URL

To access the respective Business Intelligence Analytics Application, you must update the OBIEE URL in the `AAI_MENU_B` table after the OBIEE environment is up and running. Use the following command:

```
UPDATE AAI_MENU_B
SET V_MENU_URL = '&obieeURL'
WHERE V_MENU_ID IN ('OFS_IIA_ANALYTICS')
/
COMMIT
/
```

7.18 Configure Data Source

This section details the configurations required for Data Sources in the OFSAA applications.

- Create a connection pool in the Information Domain. For more information, see the [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#).
- JNDI name of the connection pool must be <res-ref-name> as mentioned in the web.xml file. For example jdbc/OFSINFDOM
- Create and deploy the web components into the webserver. For more information on deploying the web components, see the [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#).
- The following tag must be added manually in web.xml if not already present in the web.xml file.

```
<resource-ref>  
<!-- description>DB Connection INFODOM</description -->  
<res-ref-name>jdbc/ INFODOM</res-ref-name>  
<res-type>javax.sql.DataSource</res-type>  
<res-auth>Container</res-auth>  
</resource-ref>
```

7.19 Create and Deploy the EAR or WAR Files

See [Create and Deploy the EAR or WAR Files](#) in OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide for details.

7.20 Configure the excludeURLList.cfg File

See [Configure the excludeURLList.cfg File](#) in OFS AAI Installation Guide for details.

7.21 Configure Data Redaction in OFSAA

This section details the configurations required in case you want to enable Data Redaction in the OFSAA applications.

Topics:

- [Prerequisites](#)
- [Data Redaction](#)
- [Enable Data Redaction in case of an Upgrade](#)

7.21.1 Prerequisites

Ensure the required Oracle Database Server versions are installed:

- Oracle Database Server Enterprise Edition 18c Release 3 - 64 bit RAC/Non-RAC with/without partitioning option, Advanced Security Option.

- Oracle Database Server Enterprise Edition 19c Release 3 - 64 bit RAC/Non-RAC with/without partitioning option, Advanced Security Option.

7.21.2 Data Redaction

OFSAA is enhanced to enable masking of sensitive data and Personal Identification Information (PII) to adhere to Regulations and Privacy Policies. Oracle Data Redaction provides selective, on-the-fly redaction of sensitive data in database query results before display by applications so that unauthorized users cannot view the sensitive data. The stored data remains unaltered, while displayed data is transformed into a pattern that does not contain any identifiable information.

To enable Data Redaction, perform the following steps:

1. Log in as SYSDBA into the database.
2. Execute the `$FIC_HOME/utility/data_security/scripts/create_data_sec_roles.sql` file only once per database (PDB in case of 18c/19c).
3. Execute the following SQL statement to find out the list of atomic users from the table:

```
select v_schema_name from aai_db_detail where V_DB_NAME <> 'CONFIG' AND V_DB_TYPE = 'ORACLE'
```
4. Execute the `$FIC_HOME/utility/data_security/scripts/grant_data_sec_roles.sql` file for all atomic users found in the previous step.
5. From the Configuration window in the System Configuration module, select the Allow Data Redaction checkbox.
6. Run the Data Redaction utility.

For more details on enabling Data Redaction, see the *Data Redaction* section in the *Data Security and Data Privacy* topic in the [OFS Analytical Applications Infrastructure Administration and Configuration Guide](#).

7.21.3 Enable Data Redaction in case of Upgrade

This section details the configurations required in case you want to enable Data Redaction in OFSAA applications after upgrade to OFSAA 8.1.1.0.0 version from a previous version. Additionally, these configurations are required in case you did not enable TDE during Oracle Insurance Accounting Analyzer 8.1.1.0.0 installation and want to enable it at a later point in time.

Perform the following steps:

1. From the Configuration window in the System Configuration module, select the **Allow Data Redaction** checkbox.
2. Run the Data Redaction utility.

For more details on enabling Data Redaction, see the *Data Redaction* section in the *Data Security and Data Privacy* topic in the [OFS Analytical Applications Infrastructure Administration Guide](#).

7.22 Data Protection Implementation in OFSAA

Data Protection implementation in OFSAA applications includes the following:

- Right to be Forgotten
- Data Portability
- Pseudonymization
- Notice and Consent
- Data Archival
- Data Redaction

See the [OFSDF Data Protection Implementation Guide](#) for details.

7.22.1 Right to be Forgotten

Right to be Forgotten is the task of removing Personally Identifiable Information (PII) of a Data Subject for the given Party. The financial institution can delete PII for those Data Subjects who have requested this Right to be Forgotten functionality.

The Data Subjects may have made significant financial transactions, and/or financial information may be required for regulatory or compliance reporting. Deleting the complete record that consists of PII may lead to issues in data reconciliation. In OFSAA, the PII data will be replaced with randomized values and therefore, the complete Data Subject record is retained. As a result, financial information is retained; however, the associated Party PII is removed permanently.

7.22.1.1 Configuring Right to be Forgotten During Oracle Insurance Accounting Analyzer Installation

To configure Right to be Forgotten, follow these steps:

1. Ensure that you assign the role of Data Controller to the IIA user.
2. Edit the task of the batch `<Infodom_name>_RightToForget`. By default the parameter is SYSADMN. Modify the user ID in the Metadata Value field to the IIA Data Controller user ID from Step 1.
3. Add the party IDs entries for the Right to Forget in the **FSI_PARTY_RIGHT_TO_FORGET** table.
4. Execute the batch `<Infodom_name>_RightToForget`, for the specific FIC MIS date mentioned in the FSI_PARTY_RIGHT_TO_FORGET table.

7.23 Post-deployment Configurations

This section includes the post-deployment configuration steps.

Topics:

- [Deploy the Oracle Insurance Accounting Analyzer Analytics](#)
- [Logging as System Administrator](#)
- [Creating Application Users](#)
- [Mapping Application User \(or Users\) to User Group](#)

- [IIA Pack User Group Names](#)

7.23.1 OBIEE Configuration - Deploy OFS IIA Analytics

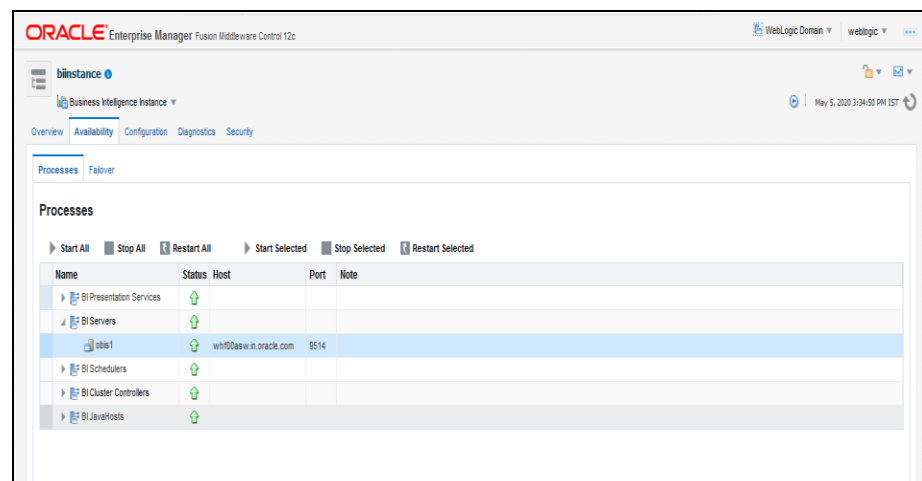
The Oracle Insurance Accounting Analyzer Analytics application release 8.1.1.0.0 is based upon a dedicated reporting mart built from the new Fusion Financial Services Data Model. Oracle Insurance Accounting Analyzer Analytics 8.1.1.0.0 leverages several components of Oracle Business Intelligence Enterprise Edition (OBIEE) or Oracle Analytics Server (OAS) technology including Dashboards and Answers. It also includes various Dashboards and Reports for the user to carry out various Insurance Accounting Analyzer-based analytics.

Follow these steps to configure the Oracle Insurance Accounting Analyzer Analytics:

1. Make sure Oracle Business Intelligence 12.2.1.4.0 or OAS 5.5.0 installation is completed and available. See [Installing and Configuring Oracle Business Intelligence 12c \(12.2.1.4\)](#) (E91876-03) or [Installing and Configuring Oracle Analytics Server 5.5.0](#) (F27232-03) for more details.
2. Configure the ODBC data source to connect to the Oracle BI Server:
 - a. Navigate to **Control Panel, select Administrative Tools**, and then select **Data Sources (ODBC)**.
 - b. Select the **System DSN** tab and click **Add**.
 - c. Select a driver-specific to Oracle BI Server 2.2.1.4.0 or OAS 5.5 and click **Finish**.
 - d. Enter the **Name** and **Server** details (specify the Hostname or IP Address of the BI Server) and click **Next**.
 - e. Enter the Oracle BI Server login ID and password (Enter the User Name and Password created at the time of OBIEE or OAS installation). Update the port with the port number available for the BI Server in the **Availability** tab of Business Intelligence in the Enterprise Manager.

For example: In the following figure, the port number is 9514.

Figure 22: Update Port Number in the BI Server



- f. Click **Next**.

-
- g. Navigate to the RPD and Catalog folders available in the following directories. Copy the RPD and required Catalog files (as per the license agreement) in the server where the BI client tools are installed:
 - \$FIC_HOME/IIABI/OBIEE 12.2.1.4.0/Repository directory containing the IFRS17.rpd in the data model folder and archived.
 - \$FIC_HOME/IIABI/OBIEE 12.2.1.4.0/Catalog directory containing the IFRS17.catalog in the data model folder and archived
 - h. Click **Finish**.
3. Modify the connection pool and set the properties.
 - a. Open the OBI Administration tool.
 - b. Select **Start**, select **Programs**, select **Oracle Business Intelligence** and then select **BI Administration**.
 - c. Select **File**, select **Open**, select **Offline**, and then select the IFRS17.rpd file.
 - d. In the **Open** dialog box, select and open the IFRS17.rpd file.
 - e. Enter the Repository password as Admin123.
 - f. In the **Physical** layer, double-click the **Connect Pool: IIABI** to open its properties.
 - g. In the **General** tab, edit and check the following entries:
 - i. **Call Interface:** (OCI 10g/11g).
 - ii. **Data source name:** <TNS Entry connecting to OFSAA atomic schema>

For example:

```
(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=<Database IP address>)(PORT=1521)))(CONNECT_DATA=(SERVICE_NAME=<Database Name>)))
```
 - iii. **User name:** <enter atomic db user name>.
 - iv. **Password:** <enter atomic db user password>.
 - v. Confirm the password and click **OK** to close the window.
 - vi. Similarly, configure the connection pools for IIABITRANS and IIABI_INIT_BLOCK and IIABI.
 - Check Global Consistency, that is, press Ctrl+k.
 - Double-click on the warning (if you are using OAS).
 - Click **Reset to defaults** and click **OK**.
 - vii. Click **Save**.
 - h. Click **Yes** for the Global Consistency Message. No warnings should be generated at this stage.
 - i. Close the RPD file (close the file and exit).
 4. Log in to the Oracle Insurance Accounting Analyzer Analytics application using the URL: `http://<ipaddress>:<port>/analytics` (replace the port number based on your setup).

5. Follow these steps to configure the BI publisher Data Source:
 - a. Log in to the Oracle Insurance Accounting Analyzer Analytics application.
 - b. Navigate to **Administration**, select **BI Publisher**, and then select **Manage BI Publisher**.
 - c. Click JDBC Connection from Data Sources.
 - d. Click **Add Data Source**.
 - e. Enter the Data Source name as **IIA**.
 - f. Add Database details in the Connection string, that is the hostname (IP address), port number, and SID.
 - g. Enter the username (schema name) and password.
 - h. Click **Test Connection**.
 - i. Ensure that the connection is successfully established. Click **Apply**.
6. Perform the following configuration for sub-ledger reports:

For OBIEE:

 - a. Navigate to the
Oracle_Home/user_projects/domains/bi/config/fmwconfig/biconfig/OBIS directory.
 - b. Edit the value in `EVALUATE_SUPPORT_LEVEL` to 2:
`EVALUATE_SUPPORT_LEVEL = 2; IN NQSCONFIG.INI` file.
 - c. Save the file and restart the BI services.

For OAS:

 - a. Navigate to the OAS reports URL and add `/dv` at the end of the URL. For example: `http:// <ipaddress>:<port>/dv` (replace the port number based on your setup)
 - b. Log in and click **Console**, then click **System Settings** and navigate to **Evaluate Support Level**.
 - c. Set the evaluate support level from 0 to 2.
 - d. Click **Restart**.
 - e. Restart the OBI services.
 - a. After completing the preceding steps, the second report under Subledger appears without errors.
7. Perform the following OBIEE presentation server configuration steps:
 - b. Navigate to the `<<Oracle BI Instance Home>/config/fmwconfig/biconfig/OBIPS` directory.
 - c. Edit the `instanceconfig.xml` file.
 - d. Insert the following code within the XML tag `<Views> </Views>`.


```
<Charts>
<MaxVisibleColumns>50000</MaxVisibleColumns>
<MaxVisiblePages>25000</MaxVisiblePages>
```



```
<MaxVisibleRows>10000000</MaxVisibleRows>
<MaxVisibleSections>50000</MaxVisibleSections>
<JavaHostReadLimitInKB>10240</JavaHostReadLimitInKB>
</Charts>
```

- e. Insert the following code within the XML tag `<Views>` `</Views>`.

```
<Table>
<DefaultRowsDisplayedInDelivery>75</DefaultRowsDisplayedInDelivery>
<DefaultRowsDisplayedInDownload>6500</DefaultRowsDisplayedInDownload>
<MaxCells>4000000</MaxCells>
<MaxVisibleRows>140000</MaxVisibleRows>
</Table>
<Narrative>
<MaxRecords>500000</MaxRecords>
<DefaultRowsDisplayed>25</DefaultRowsDisplayed>
</Narrative>
```

- f. Save the file and restart the BI services.

NOTE Take a backup of the `instanceconfig.xml` file before making any changes.

7.23.1.1 RPD and Catalog Deployment

This section includes steps for the RPD and Catalog deployment.

7.23.1.2 Deploying the RPD

For RPD deployment, follow these steps:

1. Connect to the OBIEE server.
2. Create a folder. For example, `tmp` in the following directory:


```
<Oracle_Home>/user_projects/domains/domain_name
```
3. Copy the `IFRS17.rpd` from the [local directory](#) (where you have saved the RPD) to the folder created in the preceding step.
4. Open the command prompt, and navigate to the following directory:


```
/scratch/<mount_name>/Middleware/Oracle_Home/user_projects/domains/bi/bitools/bin
```
5. Execute the following command:


```
./datamodel.sh uploadrpd -I <RPDfilepath> -W <RPDpassword> -SI ssi -U <username> -P <password>
```

For example:

```
./datamodel.sh uploadrpd -I
/Oracle_Home/user_projects/domains/bi/RPD/IFRS17.rpd -SI ssi
-U weblogic -P weblogic123

rpd pass : Admin123
```

7.23.1.3 Deploying the Web Catalog

For web catalog deployment, follow these steps:

1. Open the catalog manager, navigate to the File menu and open the catalog online by giving the necessary credentials based on your setup:
 - Type: Online
 - URL: http://<ipaddress>:<port>/analytics-ws
2. After the catalog is opened, it will display a directory structure on the left-hand side. Select the *Catalog Root and select Shared Folders* in the LHS tree structure.
 - a. Go to the **File** menu and select **Unarchive**. It will ask for the path for a file.
 - b. Browse the path of the archived catalog file saved in your [local directory](#) using the Browse button and click **OK**.
 - c. The catalog must be extracted in the Shared Folders directory for the reports to display. A successful operation message is displayed.
 - d. Restart the presentation services once again.
 - e. Open the analytics OBIEE URL (http://<ipaddress>:<port>/analytics).
 - f. Login with credentials based on your setup, and verify that the catalog is available.
 - i. Click on catalog in the OBIEE application right top menu list.
 - ii. In the LHS menu, navigate to shared directories and verify all the directories are available.
 - iii. Navigate to Administration, then Maintenance and Troubleshooting, select Reload Files, and then click MetaData.

NOTE

If you need to clear the cache in OAS, click Issue SQL and run the Call SAPurgeAllcache() method.

7.23.1.4 Configure the OBI Administrator Tool

Follow the below steps to configure the OBI Administrator tool to point to the database schema:

1. Open the **Administrator** tool and navigate to **File**, select **Open**, and then select **Online/Offline**.
 - a. If you are online, the **Presentation**, **Business Model** and **Mapping**, and **Physical** panes appear.
 - b. If you are offline, then select the `IFRS17.rpd` file and provide the RPD password.
2. In the **Physical** pane, right-click **Insurance Connection Pool**, then **Insurance Connection Pool Init Blocks**, and then click **Properties**.

3. Click **Yes**.
4. Open the Atomic Schema and enter details as provided in the below example:

```

Dsn : (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP) (HOST =
10.40.136.96) (PORT = 1521)) (CONNECT_DATA = (SERVER =
DEDICATED) (SERVICE_NAME = IFRS18PDB)))

```

username: atm8081

password: password1

5. If you are online, click **Check In Changes**. If you are offline, navigate to **File**, then select **Save as**, then select **Repository** and then select the IFRS17.rpd file.

After you complete the above steps, you must reload the files and metadata as detailed in step f in the [Deploying the Web Catalog](#) section.

7.23.1.5 Starting and Stopping Services in OBIEE

Follow the below steps to start and stop OBIEE services:

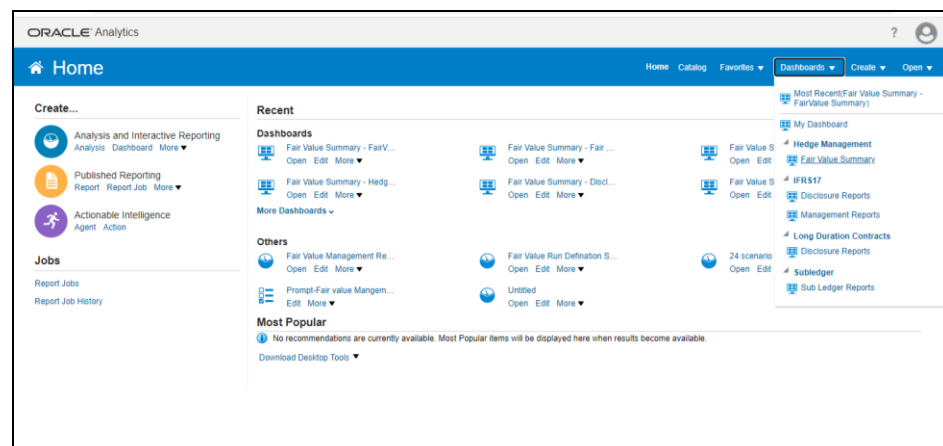
1. Connect to the OBIEE or OAS server.
2. Navigate to the
/scratch/<mount_name>/Middleware/Oracle_Home/user_projects/domains/bi/bitools/bin directory.
3. Execute the following commands:
 - a. Command to stop service: ./stop.sh
 - b. Command to start service: ./start.sh

7.23.1.6 Editing Global Variables for OBIEE or OAS

To edit the global variables for OBIEE, in this release of the Oracle Insurance Accounting Analyzer application, follow these steps:

1. Host the RPD in the server where you have configured OBIEE or OAS and Catalog for the Oracle Insurance Accounting Analyzer application as part of this release.
2. Log in to OBIEE or OAS by using the URL format
(<http://<ipaddress>:<port>/analytics>) to open the home page.

Figure 23: The Analytics Home Page



3. In the **Dashboard** drop-down list, click **Disclosure Reports** to open the dashboard.


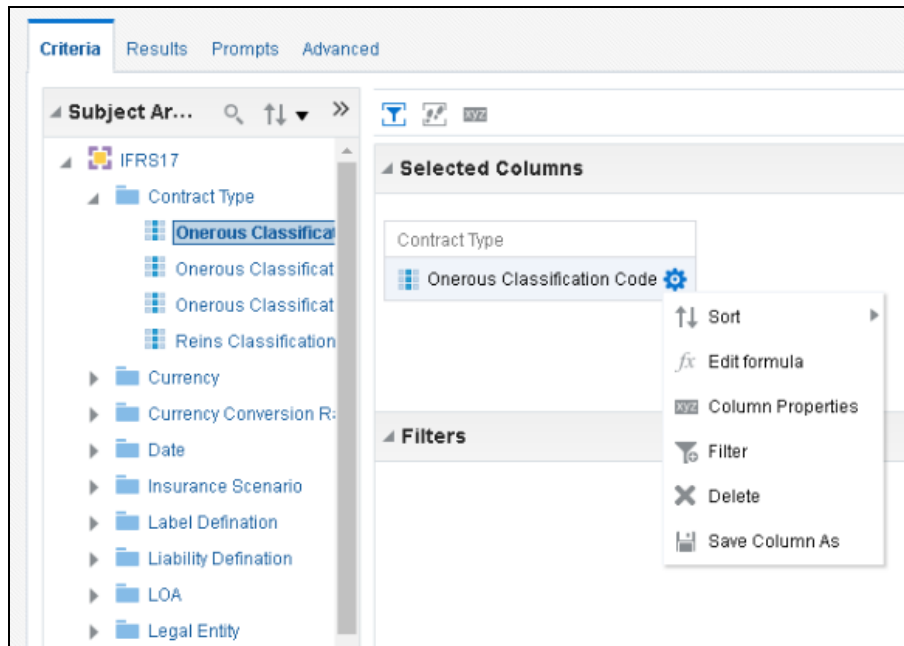
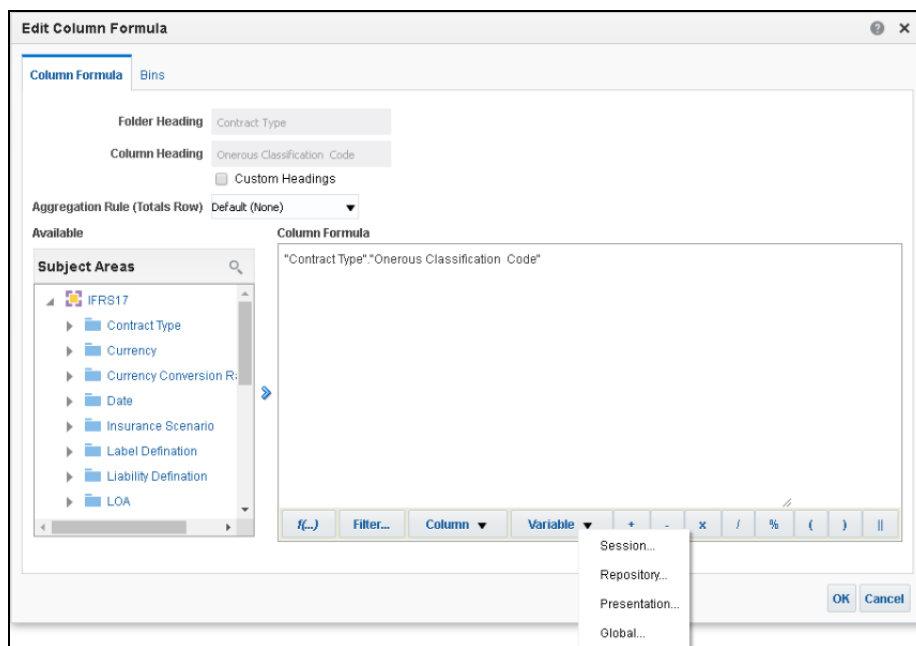
4. Click **Edit** on any of the reports to open the settings window.
5. In the **Criteria** tab, in the **Selected Columns** pane, click **Onerous Classification Code**.
6. Click **Settings**  to open the settings submenu.

Figure 24: The Settings icon adjacent to Onerous Classification Code



7. Click the **Edit** formula to open the **Edit Column Formula** window.

Figure 25: The Edit Column Formula



8. In the **Variables drop-down list**, select **Global...** to open the **Insert Global Variable** window.

9. Select the Global Variable that you want to edit, and then click **Edit Global**

Variable 

10. Edit a global variable with the following details:

Table 28: Required Values for the Global Variable

Field	Value to be added
Name	denomination
Type	Text
Value	case when '{@denomination}{In Thousand}' = 'In Thousand' then 1000 when '{@denomination}{In Thousand}' = 'In Million' then 1000000 else 1 end

This variable is used to divide all amount values by thousand or million, depending on the selected criteria.

11. Click **OK**, and then click **OK** again to save.

7.23.2 Logging as System Administrator

This section includes provides information about the system administrator roles and privileges.

Topics:

- [Role of an Administrator](#)
- [Function Maintenance](#)
- [Role Maintenance](#)
- [Function - Role Mapping](#)
- [User Group Role Mapping](#)

7.23.2.1 Role of an Administrator

There are two types of Administrators as defined by the OFS Analytical Applications Infrastructure: A User Administrator and a System Administrator.

- **System Administration:** refers to a process of managing, configuring, and maintaining confidential data in a multi-user computing environment. A System Administrator creates functions, roles, and mapping functions to specific roles. A System Administrator also maintains segment information, holiday list, and restricted passwords to ensure security within the application. The following are the activities of a System Administrator:
 - Function Maintenance
 - Role Maintenance
 - Function-Role Mapping
- **User Administration:** is one of the core functions of Security Management which involves administrators creating user definitions, user groups, maintain profiles, authorize users and user groups, and map users to groups, domains, and roles. A User Administrator controls the user privileges in accessing the application and is

based on business requirements to provide access to view, create, edit, or delete confidential data.

A User Administrator grants permissions based on user roles and requirements.

The respective roles must be mapped to administrative user SYSADMN.

7.23.2.2 Function Maintenance

For details, see the System Administrator section in the [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

7.23.2.3 Role Maintenance

For details, see the System Administrator section in the [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

7.23.2.4 Function - Role Mapping

For details, see the System Administrator section in the [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

7.23.2.5 User Group Role Map

For details, see the User Group Role Map section in [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

7.23.3 Creating Application Users

Create the application users in the OFSAA setup before use.

For details, see the User Administrator section in the [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

7.23.4 Mapping Application User (or Users) to User Group

For details, see the User Administrator section in the [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

Starting the OFSAA 8.1.0.0.0 release, with the installation of the IIA application pack, preconfigured Application user groups are seeded. These user groups are unique to every OFSAA Application Pack and have application roles preconfigured.

For more information on seeded User Groups, see [IIA Pack User Group Names](#).

Map the application user (or users) to the respective Application User Group (or users) and subsequently authorize the entitlements by logging in as SYSAUTH (System Authorizer) user.

For details, see the Mapping or Unmapping Users section in the [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

7.23.5 IIA Pack User Group Names

The section provides information about the User Group names seeded as part of the Oracle Insurance Accounting Analyzer application pack.

To access the IIA application, you can map the created users to the following user groups:

- **IIAADMINGRP** - IIA Admin Group
- **IIAANALYSTGRP** - IIA Analyst Group
- **IIAAPPROVERGRP** - IIA Approver Group

Part II

Topics:

- [Upgrade](#)

8 Upgrade

This section includes the procedures for the various upgrade scenarios supported by Oracle Insurance Accounting Analyzer Release 8.1.1.0.0.

Topics:

- [Upgrade Scenarios](#)
- [Prepare for Upgrade](#)
- [Install a New Application Pack on an Existing OFSAA Instance](#)

8.1 Upgrade Scenarios

This section details the upgrade scenarios for the Oracle Insurance Accounting Analyzer application.

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

Table 29: Upgrade Scenarios

Scenario	Upgrade Instructions
<p>Upgrade from OFS Oracle Insurance Accounting Analyzer Release v8.1.x on AIX or Solaris x86 Operating System</p>	<p>Release v8.1.0.0.0 of Oracle Insurance Accounting Analyzer is not certified for AIX and Solaris x86 Operating Systems. If you are currently running OFSAA v8.1.x on AIX or Solaris x86 Operating Systems and plan to upgrade to Release v8.1.1.0.0, then you must migrate from AIX or Solaris x86 to Linux or Solaris SPARC. See the OFSAA 8.0.x.x.x Migration Guide for details.</p>
<p>Install a New Application Pack on an Existing OFSAA Instance</p> <p>You have already installed an application pack from release 8.1.1.0.0 and now you want to install another application pack from Release 8.1.1.0.0.</p> <p>Example: You have already installed the OFS Insurance Accounting Analyzer 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_IIA_PACK.xml file for the newly licensed pack. 3. Update the Silent.props file of the newly licensed pack. 4. Trigger the installation for Release 8.1.1.0.0.
<p>Upgrade from Release v8.1.0.1.0 to Release v8.1.1.0.0</p>	<ol style="list-style-type: none"> 1. If you are upgrading the application pack from a release before Release 8.1.0.1.0, then upgrade to Release v8.1.0.1.0. 2. Update the Silent.props file. 3. Run the Environment Check Utility tool and ensure that you have installed the hardware and software requirements as per the OFS Analytical Applications

	<p>Technology Matrix. See the OFSAA Environment Check Utility Guide for detailed steps.</p> <ol style="list-style-type: none"> 4. Optionally, Clone your existing environment to the 8.1.1.0.0 OFS Analytical Applications Technology Matrix. 5. Trigger the Release 8.1.1.0.0 installation.
--	--

NOTE

If you are adding an additional application, you must run the schema creator utility.

8.2 Mandatory Patches

The patch in the following table must be installed after completing all the upgrade steps.

Table 30: Mandatory Patches

One-Off Patch	Description
32548944	This is a mandatory OFS AAI one-off patch.

8.3 Prepare for Upgrade

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

NOTE

Ensure to revert any customized data model changes done without performing data model upload before upgrading.

ATTENTION

The minimum supported version is 8.1.0.1.0. If upgrading from a release before 8.1.0.1.0, then first upgrade to 8.1.0.1.0. After this step, you can upgrade to 8.1.1.0.0.

1. Backup the following environment files from their respective directories:
 - Database schema
 - OFS_IIA_PACK.xml
 - OFS_IIA_SCHEMA_IN.xml
 - OFSAAI_InstallConfig.xml
2. See the [OFS Analytical Applications Technology Matrix](#) for the hardware and software required to upgrade to Oracle Insurance Accounting Analyzer Release 8.1.1.0.0.
3. Enable unlimited cryptographic policy for Java. For more information, see the *Enabling Unlimited Cryptographic Policy* section in the [OFS Analytical Applications Infrastructure Administration Guide](#).

4. Clone your environment.
5. Execute the following SQL query on the Atomic Schema:

```
update rev_tables_b set version=0 where version is null;  
commit;
```
6. You must apply the OFS AAI patch **32530173** in case of Pack-on-Pack v8.1.1.0.0 installation. Do not apply this patch, if you have already applied it as part of another application pack's installation.

There is a consistent need for a faster and effective approach to replicating an existing OFSAA instance for further project developments, that is, setting up OFSAA instances that are exact copies of the current OFSAA instance. For more information, see the [Clone your Existing Environment](#) section.

8.3.1 Clone Your Existing Environment

Clone your existing environment to the 8.1.1.0.0 [OFS Analytical Applications Technology Matrix](#). For more information, see the OFSAA Cloning Reference Guide.

8.3.2 Initializing the Upgrade

To initialize the upgrade, follow these steps:

1. Log in to My Oracle Support and search for **32506459** under the **Patches & Updates** tab.
2. Copy the archive file to your OFSAA server in Binary mode.

NOTE The archive files are different for every operating system like Solaris, and RHEL, or Oracle Linux.

3. Log in to the OFSAA Server with user credentials that were used to install OFSAA.
4. Shut down all the OFSAAI Services. See the [Stop the Infrastructure Services](#) and [Start the Infrastructure Services](#) section in the OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide for details.
5. Execute the command:

```
chmod -R 750 $FIC_HOME
```
6. If you have Unzip utility, skip to the next step. Download the Unzip utility (OS-specific) and copy it in Binary mode to the directory that is included in your PATH variable, typically \$HOME path or directory in which you have copied the 8.1.1.0.0 installer.

Uncompress the unzip installer file using the command:

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

NOTE In case you notice an error message “uncompress: not found [No such file or directory]” when the package is not installed, contact your UNIX administrator.

7. Give execute permission to the file using the command:

```
chmod 751 OFS_IIA_81000_<OperatingSystem>.zip.
```

8. Extract the contents of the Oracle Financial Services Insurance Accounting Analyzer 8.1.1.0.0 in the Download Directory installer archive file using the command:

```
unzip_<os> -a <name of the file to be unzipped>
```

NOTE

The above “-a” option is mandatory to unzip the archive file.

For example: `unzip_aix -a`

`OFS_AAAI_81000_<OperatingSystem>.zip`

9. Give execute permission to the archive file. Navigate to the path where the directory `OFS_IIA_PACK` exists and execute the command:

```
chmod -R 755 OFS_IIA_PACK
```

10. Execute the user `.profile`

11. Navigate to the path `/OFS_IIA_PACK/schema_creator/conf` and modify the file `OFS_IIA_SCHEMA_IN.xml` by providing the existing values to the parameters `JDBC_URL`, `JDBC_DRIVER`, Host, Setupinfo name, schema names (config and atomic), password, default tablespace, Infodom, Quota as per the previous version.

12. Navigate to the path `/OFS_IIA_PACK/schema_creator/bin`, and execute the `osc.sh` file using the following command:

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

NOTE

- Steps 11 and 12 are required to generate the file `OFS_IIA_SCHEMA_OUTPUT.xml`.

8.3.3 Update the `OFS_IIA_PACK.xml` File

Update the `OFS_IIA_PACK.xml` File. Enable only the existing installed applications.

The `OFS_IIA_PACK.xml` file contains details on the various products that are packaged in the Oracle Insurance Accounting Analyzer application pack. This section provides information about the various tags and parameters available in the file and the values that you must update. Before installing Oracle Insurance Accounting Analyzer, it is mandatory to update this file.

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

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

Table 31: OFS_IIA_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. ENABLE as YES for the APP_IDs - OFS_AAI, OFS_AAAI, OFS_IIA based on the licensing.	Set this attribute-value to YES for every APP_ID which you want to install or upgrade.

8.3.4 Update the Silent.props File in Release 8.1.1.0.0 Pack

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

1. Navigate to the `OFS_IIA/appsLibConfig/conf` directory.
2. Edit the `Silent.props` file and specify the parameters as per the requirements.

SILENT installation is achieved through a properties file (`Silent.props`) that must be updated with proper values, before attempting to install using the silent mode. The following table lists all the properties that need to be specified.

3. Configure the `Silent.props` file as mentioned in the following table. Open the `Silent.props` file and edit only the following parameters.

Table 32: 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.

8.3.5 Trigger the Installation

To trigger the installation, follow these steps:

1. Navigate to the path `OFS_IIA_PACK/bin`, and enter the following command in the console to execute the application pack installer with the Silent option.

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

2. The installer proceeds with the Pre-Installation Checks.
3. Enter the OFSAA Processing Tier FTP/SFTP password value and proceed, when prompted in the command prompt.

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

4. The OFS Insurance Accounting Analyzer installation begins.
5. Data Model Upload may take several hours to complete. You can check the installation logs in the following location: `OFS_IIA/OFS_IIA/logs`

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

Secure your OFSAA Infrastructure. For more information, see the Security Guide in the [OHC Documentation Library](#).

6. Execute the `update_dq_batches_optional_params.sql` script, which is available in the `$FIC_HOME/Post_AAI_Migration` directory.

Congratulations! Your installation is complete.

8.3.6 Verify the Log File Information for Upgrade

See the following logs files for more information:

- Verify if the release is applied successfully by checking the log file generated in the locations mentioned in the section [Verify the Log File Information](#).
- You can also verify the OFSAAI log files from the `OFS_IIA_PACK/OFS_AAAI_PACK/logs` directory.
- Verify the Model Upload log file available in the `ftpshare/<INFODOM>/logs` directory.
- Verify if the release is applied successfully by checking the log file generated in the `OFS_IIA_PACK/OFS_IIA/logs` installation directory. You can ignore ORA-00001, ORA-00955, ORA-02260, ORA-01430, ORA-02298 errors in the log file. In case of any other errors, contact [Oracle Support](#).

You can ignore the ORA-00001 error in the log file available in the path `OFS_IIA_PACK/schema_creator/logs`.

NOTE

Ignore all the warnings in the installation log. For any issues contact [Oracle Support](#).

- Verify if the Data Model is uploaded successfully by checking the log file generated as per the directory/path mentioned in Silent.props for the
- Verify the `Update.log` file located at `$FIC_HOME/utility/UpdateConstraints/logs` directory which is created by the Update Constraint utility.
 - Execution status information of the utility is available against each Information domain. For success, “Update successful” message is displayed. If it is successful, verify the following references for new constraint names:
 - `ftpshare/<INFODOM>/erwin/fipxml/<INFODOM>_DATABASE.xml`
 - Constraint scripts under `ftpshare/<INFODOM>/erwin/scripts/table`
 - Constraint scripts under `ftpshare/<INFODOM>/scripts`
 - Object registration tables for constraints, `REV_TAB_CONSTRAINTS`, `REV_TAB_REF_CONSTRAINTS`, `REV_TAB_CONSTRAINT_COLUMNS`.
 - Oracle Data Dictionary in the respective Atomic Schemas for each Infodom.
 - If you encounter errors in the `Update.log` file, identify and troubleshoot the failed Infodoms. Once you have completed the troubleshooting, execute the standalone utility for the failed Infodoms. For more information on executing the update constraints utility, see the [Update Constraints Utility](#) section in the OFS AAI Applications Pack Installation Guide0.

8.3.7 Post Installation Steps for Upgrade

Perform the following post-installation steps:

1. Secure your OFSAA Infrastructure. For more information, see the [OFSAA Security Guide](#) in the OHC Documentation Library.
2. After successful installation, follow these steps:
 - a. Clear the application cache. Navigate to the following path depending on the configured web application server and delete the files.
 - **Tomcat:**
`<Tomcat installation directory>/work/Catalina/localhost/<Application name>/org/apache/jsp`
 - **WebLogic:**
`<WebLogic installation location>/domains/<Domain name>/servers/<Server name>/tmp/_WL_user/<Application name>/<auto generated directory>/jsp_servlet`

 For WebLogic version 12.2.x.x, delete the directory named `.WL_internal` present in the `<WebLogic installation location>/user_projects/domains/< Domain name >/applications/<context_name>.ear/META-INF/` directory, if it exists.
 - **WebSphere:**
`<WebSphere installation directory>/AppServer/profiles/<Profile name>/temp/<Node name>/server1/<Application name>/<.war file name>`
 - b. Deploy the RPD and catalog file(s)

Note: Ensure that OBIEE 12.2.1.4.0 or OAS 5.5.0 is up and running.

Take a backup of the deployed `IFRS17.rpd` and `IFRS17.catalog` files from the OBIEE environment.

- i. Navigate to the respective folders. Copy the RPD and required Catalog files (as per the license agreement) in the server where the BI client tools are installed:
 - `$FIC_HOME/IIABI/OBIEE 12.2.1.4.0/Repository` directory containing the `IFRS17.rpd` in the data model folder and archived
 - `$FIC_HOME/IIABI/OBIEE 12.2.1.4.0/Catalog` directory containing the `IFRS17.catalog` in the data model folder and archived
 - ii. Modify the connection pool and set the properties.
 - iii. Any customizations performed on the older rpd and web catalog files must be manually carried over to the newer ones post-deployment.
 - iv. Clear OBIEE cache, if enabled.
 - v. For more information on deploying RPD and webcat files, see the [Deploying RPD and Web catalog Files](#) section.
3. Add umask 0027 in the `.profile` of the UNIX account which manages the WEB server to ensure restricted access permissions.
 4. Follow these steps to remove `ContextDocLoader` from the `web.xml` file:
 - a. Navigate to `$FIC_WEB_HOME/webroot/WEB-INF` folder.
 - b. Open the `web.xml` file in a text editor.
 - c. 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.Context
DocLoade
r</servlet-class>
<load-on-startup>1</load-on-startup>
</servlet>
```
 5. Generate the application EAR/WAR file and redeploy the application onto your configured web application server. See [Create and Deploy the EAR/WAR Files](#), for more information on generating and deploying the EAR/WAR files.
 6. Restart all the OFSAAI services. See the [Stop the Infrastructure Services](#) and [Start the Infrastructure Services](#) sections in the OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide for details
 7. Verify the log files in the locations mentioned in the section [Verifying the Log Files](#). You can also verify the OFSAAI log files from `OFS_IIA_PACK/OFS_AAI_PACK/logs` directory.

8. To configure OBIEE or OAS, follow the steps mentioned in the [BI Analytics - OBIEE Server Configuration Steps](#) section.

8.3.7.1 OBIEE Server Configuration Steps

Perform the following OBIEE server configuration steps. You can ignore the steps if OBIEE is already configured in your setup.

1. Perform the following OBIEE presentation server configuration steps

- a. Navigate to the <<Oracle BI Instance Home>/config/fmwconfig/biconfig/OBIPS directory.
- b. Edit the file `instanceconfig.xml`.
- c. Insert the following code within xml tag <Views> </Views>.

```
<Charts>
<MaxVisibleColumns>50000</MaxVisibleColumns>
<MaxVisiblePages>25000</MaxVisiblePages>
<MaxVisibleRows>10000000</MaxVisibleRows>
<MaxVisibleSections>50000</MaxVisibleSections>
<JavaHostReadLimitInKB>10240</JavaHostReadLimitInKB>
</Charts>
```

- d. Insert the following code within xml tag <Views> </Views>.

```
<Table>
<DefaultRowsDisplayedInDelivery>75</DefaultRowsDisplayedInDelivery>
<DefaultRowsDisplayedInDownload>6500</DefaultRowsDisplayedInDownload>
<MaxCells>4000000</MaxCells>
<MaxVisibleRows>140000</MaxVisibleRows>
</Table>
<Narrative>
<MaxRecords>500000</MaxRecords>
<DefaultRowsDisplayed>25</DefaultRowsDisplayed>
</Narrative>
```

- e. Save the file, and restart the BI services.

NOTE Take a backup of the `instanceconfig.xml` file before making any changes.

2. Perform the following RPD changes, to set the Early Warning Indicators 1 and 2:
 - a. Open the **Repository** in Online or Offline mode.
 - b. Select **Manage** and then select **Variables**.
 - c. Navigate to hierarchy **Repository** select **Variables** then select **Static**.

- d. Modify EARLYWARNIND1 and EARLYWARNIND2 variable values as required.
- e. Save and commit the changes to RPD.

Note: You must redeploy the RPD on the BI server if you have made changes in the offline mode.

3. For OBIEE reporting, configure the following:

- a. Navigate to the <<obiee <<Oracle BI Instance Home>/config/fmwconfig/biconfig/OBIJH directory.

- b. Modify the config.xml file.

- c. The increased parameter value for the following tag:

```
<XMLP>
<InputStreamLimitInKB>40000</InputStreamLimitInKB>
<ReadRequestBeforeProcessing>true</ReadRequestBeforeProcessing>
</XMLP>
<DVT>
<InputStreamLimitInKB>40000</InputStreamLimitInKB>
</DVT>
```

- d. Save the config.xml file.

- e. Navigate to the <<obiee <<Oracle BI Instance Home>/config/fmwconfig/biconfig/OBIPS directory.

- f. Modify the instanceconfig.xml file.

- g. Increase the parameter value for tag if already exists or add the following code

```
<Charts>
<MaxVisibleColumns>50000</MaxVisibleColumns>
<MaxVisiblePages>25000</MaxVisiblePages>
<MaxVisibleRows>100000</MaxVisibleRows>
<MaxVisibleSections>50000</MaxVisibleSections>
<JavaHostReadLimitInKB>10240</JavaHostReadLimitInKB>
</Charts>
and
<Pivot>
<MaxCells>1920000</MaxCells>
<MaxPagesToRollOutInDelivery>10000</MaxPagesToRollOutInDelivery>
<MaxVisibleColumns>50000</MaxVisibleColumns>
<MaxVisiblePages>100000</MaxVisiblePages>
<MaxVisibleRows>10000000</MaxVisibleRows>
<MaxVisibleSections>50000</MaxVisibleSections>
<DefaultRowsDisplayed>100000</DefaultRowsDisplayed>
</Pivot>
```

under <Views> tag

- h. Save the `instanceconfig.xml` file.
- i. Restart the BI Services.

8.4 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 8.1.1.0.0.

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

NOTE

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

8.4.1 Execute the Schema Creator Utility Only for the New Pack

To execute the schema creator, follow these steps:

NOTE

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

1. Edit the file `OFS_IIA/schema_creator/conf/OFS_IIA_SCHEMA_IN.xml` in a text editor. See [Configure OFS IIA SCHEMA IN.xml](#) for values to modify in the XML file.
2. Execute the utility with `-s` option.
For Example: `./osc.sh -s`
3. Follow the steps given in the section [If the schema creator output file \(OFS_IIA_SCHEMA_OUTPUT.xml\) EXISTS](#) section.
4. Configure `OFSAAI_InstallConfig.xml` File is not required.

8.4.2 If the Schema Creator Output file (OFS_IIA_SCHEMA_OUTPUT.xml) EXISTS

If the Schema Creator Output file (`OFS_IIA_SCHEMA_OUTPUT.xml`) is available, follow the steps mentioned in the following sections.

8.4.2.1 Update the OFS_IIA_PACK.xml file

Update the `OFS_IIA_PACK.xml` file. Enable only the new applications.

The `OFS_IIA_PACK.xml` file contains details on the various products that are packaged in the Oracle Insurance Accounting Analyzer application. This section provides

information about the various tags and parameters available in the file and the values that you must update. Before installing Oracle Insurance Accounting Analyzer, it is mandatory to update this file.

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

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

Table 33: OFS_IIA_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. • NO for applications that are already installed. <p>For example, OFS_AAI, OFS_AAAI,</p>	Set this attribute-value to YES for every APP_ID which you want to install or upgrade.

8.4.3 Update the OFS_IIA_PACK.xml File for the Newly Licensed Pack

The `OFS_IIA_PACK.xml` file holds details on the various products that are packaged together in OFS Insurance Accounting Analyzer.

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

This section provides information about the various tags and parameters available in the file and the values that you must update. Before installing OFS IIA, it is mandatory to update this file.

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

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

Table 34: OFS_IIA_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.

8.4.4 Update the Silent.Props File of the Newly Licensed Pack

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

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

1. Navigate to the `OFS_IIA/appsLibConfig/conf` directory.
2. Configure the `Silent.props` file as mentioned in the following table. Open the `Silent.props` file and edit only the following parameters:

Table 35: 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.

8.4.5 Trigger the Installation

To trigger the installation, follow these steps:

1. Navigate to the path `OFS_IIA_PACK/bin`, and enter the following command in the console to execute the application pack installer with the Silent option.

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

2. The installer proceeds with the pre-installation checks and starts the upgrade installation process.
3. Enter the OFSAA Processing Tier FTP/SFTP password value and proceed, when prompted in the command prompt.
4. The process displays the OFSAA License. Enter **Y** and proceed.
5. The OFS IIA installation begins.
6. Data Model Upload may take several hours to complete. You can check the installation logs in the following location: `OFS_IIA/OFS_IIA/logs`
Do not close the console until the installation is complete.
7. Verify the log files.

8.4.6 Verify the Log File Information

Verify the log files in the locations mentioned in the section [Verify the Log File Information](#). Additionally, you can verify the OFSAAI log files from `OFS_IIA_PACK/OFS_AAAI_PACK/logs` directory.

8.4.7 Post Installation Steps

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

8.4.8 View OFSAA Product Licenses after Installation of Application Pack

In an integrated environment, where you have multiple applications installed on the same domain or infrastructure, OFSAAI allows you to see the other licensed applications through the UI. For more information, see the View OFSAA Product Licenses after Installation of Application Pack in the [OFS Analytical Applications Infrastructure User Guide Release 8.1.1.0.0](#).

Part III

Topics:

- [Configure the Web Server](#)
- [Configure Resource Reference in Web Servers](#)
- [Configure Work Manager in Web Application Servers](#)
- [Additional Configurations](#)
- [Migrate Excel Upload Functionality](#)
- [FAQs](#)

9 Configure the Web Server

This step assumes the installation of a web server exists as per the prerequisites. If an installation already exists, skip, and proceed to the next step.

Webserver configuration includes the following activities. See the [Configure the Web Server](#) section in the [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#) to complete these procedures.

- **Configure WebSphere Application Server for Application Deployment**
 - Create a New Profile in WebSphere
 - Manage IBM WebSphere SDK Java Technology Edition Versions
 - Manage Applications in WebSphere
 - Configure WebSphere Application Server to Initialize Filters before Initializing Load-On Startup Servlets
 - Configure WebSphere Application Server Persistence to JPA Specification 2.0
 - Configure WebSphere Application Server to Use a Load Balancer or Proxy Server
 - Delete WebSphere Profiles
 - Configure WebSphere HTTPS
 - Configure WebSphere Memory Settings
- **Configure WebLogic for Application Deployment**
 - Create Domain in WebLogic Server
 - Delete Domain in WebLogic
 - Configure WebLogic Memory Settings
- **Configure Apache Tomcat Server for Application Deployment**
 - Tomcat User Administration
 - Configure Servlet Port
 - Configure SSL Port
 - Configure Apache Tomcat Memory Settings
 - Configure Tomcat for User Group Authorization
 - Uninstall WAR Files in Tomcat

NOTE

- See the [Oracle Financial Services Analytical Applications Infrastructure Security Guide](#) for configurations to secure your web server.
- You must enable a sticky session/affinity session configuration on the webserver. See the respective product-specific Configuration Guide for more details. Additionally, you also must enable the sticky session/ affinity session configuration at the Load Balancer level if you have configured a Load Balancer in front of the webserver.
- Make a note of the IP Address/ Hostname and port of the web application server. This information is required during the installation process (required if the webserver is not configured).
- Add `umask 0027` in the `.profile` of the UNIX account which manages the WEB server to ensure restricted access permissions.
- See the OFSAA Secure Configuration Guide/ Security Guide mentioned in the [Related Documents](#) section for additional information on securely configuring your web server.

9.1 Additional Configurations for Web Servers

This section provides information for additional configuration required for the web servers on OFSAAAI.

NOTE

The instructions in this section are applicable if you are upgrading from an earlier version of OFS AAI to 8.1.1.0.0.

- **Configuration for WebSphere:** To configure WebSphere, see the Configure WebSphere Application Server for Application Deployment section. Additionally, configure for REST services. For details, see the *Configuring WebSphere for the REST Services Authorization* section in the [OFS Analytical Applications Infrastructure Administration Guide](#).
- Additionally, you must configure the Work Manager in WebSphere and map it to the OFSAA instance. For details, see the *Work Manager Configurations* section in the [OFS Analytical Applications Infrastructure Administration Guide](#).

- **Configuration for WebLogic:**

Before proceeding with the domain creation, download and install the required one-off Patch or the latest WLS PSU for 14.1.1 from **My oracle Support** (Doc ID [2806740.2](#)). For more information, refer to **Configure WebLogic for Application Deployment** in the [OFS AAI installation guide](#).

To configure WebLogic, see the [Configure WebLogic for Application Deployment](#) section. Additionally, configure for REST services. For details, see the *Configuring WebLogic for the REST Services Authorization* section in the [OFS Analytical Applications Infrastructure Administration Guide](#).

- Additionally, you must configure the Work Manager in WebLogic. For details, see the *Work Manager Configurations* section in the [OFS Analytical Applications Infrastructure Administration Guide](#).
- **Configuration for Tomcat:** For the successful execution of Data Mapping in Tomcat, perform the configurations mentioned in the Configuration for Tomcat section in the [OFS Analytical Applications Infrastructure Administration Guide](#).

For additional configurations, see the [Configure Apache Tomcat Server for the Application Deployment](#) section.

9.1.1 Configure Application Security in WebSphere

This is a mandatory security procedure for WebSphere to restrict the unauthorized access of configuration files in directories. For detailed information, see the Oracle Financial Services Analytical Applications Infrastructure Security Guide.

9.1.2 Configure WebSphere Shared Library to Support Jersey 2x and Jackson 2.9x Libraries

Perform the following configuration to set the WebSphere shared library to support jersey 2x and Jackson 2.9x libraries.

1. Click **Environment** from the menu on the left to expand and view the list. Click **Shared Libraries** to open the Shared Libraries window.

Figure 26: WebSphere Shared Libraries

The screenshot shows the 'Shared Libraries' configuration window in WebSphere. The window title is 'Shared Libraries' and the breadcrumb is 'Shared Libraries > JERSEY2x'. Below the breadcrumb, there is a description: 'Use this page to define a container-wide shared library that can be used by deployed applications.' The main configuration area is titled 'Configuration' and contains several sections:

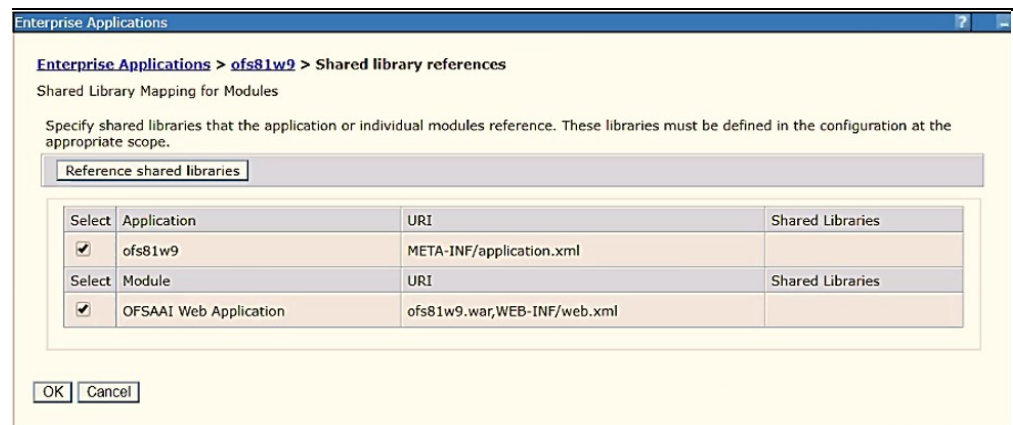
- General Properties:**
 - Scope:** cells:whf00cywNode01Cell:nodes:whf00cywNode01:servers:server1
 - Name:** JERSEY2x
 - Description:** shared Lib
 - Classpath:** /scratch/IBM/WebSphere/AppServer/profiles/AppSrv01/installedApps/whf00cywNode01Cell/ofs81w9.ear/ofs81w9.war/externalib/WEB-INF/lib/
 - Native Library Path:** (Empty field)
- Class Loading:**
 - Use an isolated class loader for this shared library

At the bottom of the window, there are buttons for 'Apply', 'OK', 'Reset', and 'Cancel'.

2. Enter the following details:
 - **Name:** Enter a uniquely identifiable name.
 - **Description:** Enter a valid description.

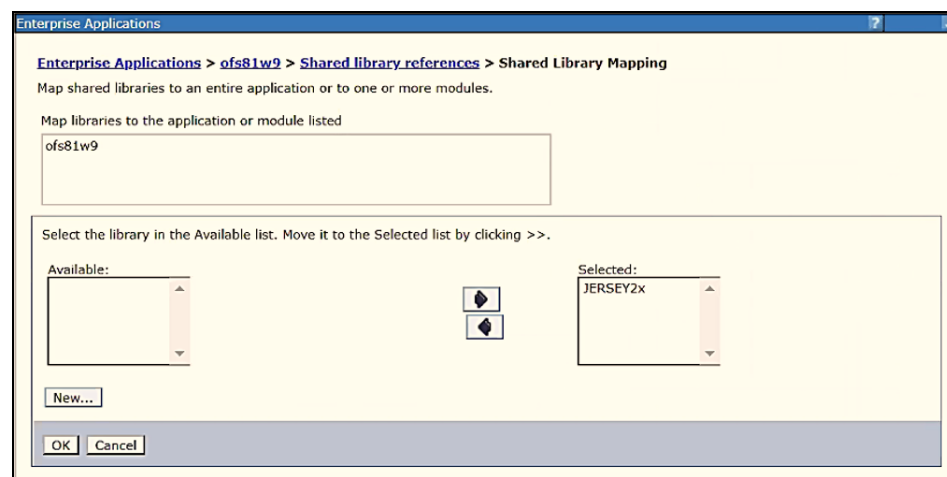
- **Classpath:** Enter the absolute path where the JARs related to Jersey 2.x and Jackson 2.9x are copied. These jars are available in the `<OFSAA_HOME>/ficweb/webroot/externallib/WEBINF/lib/` directory after creation of the EAR file. Another format of representation of the path is `<ofsa_deployed_area_location>/externallib/WEBINF/lib/`.
3. Select Use an isolated class loader for this library.
 4. Click **OK** to save to master configuration.
 5. Select the application or module and map the shared libraries. Click OK. In the following figure, **ofsa** is selected.

Figure 27: WebSphere Shared Library References



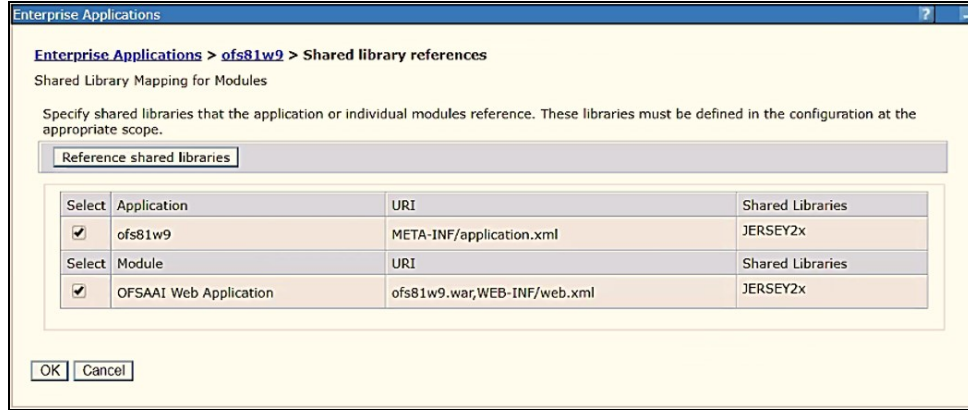
6. From the Shared Library Mapping window, move the required shared libraries from **Available** to **Selected**. In the following figure, JERSEY2x is selected.

Figure 28: WebSphere Shared Libraries Mapping Selection



7. Click **OK**.
8. Similarly, select the next application or module and repeat the procedure from steps 5 to 7.

Figure 29: WebSphere Shared Libraries Select Next Application



9. Disable the built-in JAX-RS via JVM property.
 - j. Navigate to the WebSphere admin console in **Servers > WebSphere Application Servers > yourServerName**.
 - k. In the Server Infrastructure section, go to Java and **Process Management > Process definition > Java Virtual Machine > Custom properties**.
 - l. Add the following property:

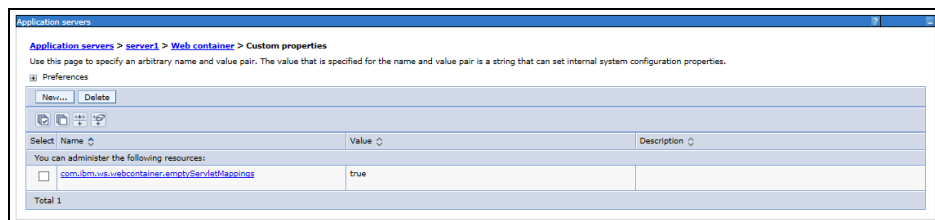

```
com.ibm.websphere.jaxrs.server.DisableIBMJAXRSEngine=true
```

NOTE If the application does not come up post the steps mentioned above, then, navigate to **Application Servers > server 1>Web container >Custom properties** and modify the following property to **True**:

```
com.ibm.ws.webcontainer.emptyServletMappings = true
```

```
com.ibm.ws.webcontainer.initFilterBeforeInitServlet=true
```

```
com.ibm.ws.webcontainer.invokeFilterInitAtStartup=true
```



10. Restart the application.

10 Configure Resource Reference in Web Servers

Configuring resource reference in web servers includes the following activities. See [Configure Resource Reference in Web Servers](#) section in the [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#) to complete these procedures.

- **Configure Resource Reference in WebSphere Application Server**
 - Create a JDBC Provider
 - Create Data Source
 - Create J2C Authentication Details
 - Define JDBC Connection Pooling
- **Configure Resource Reference in WebLogic Application Server**
 - Create Data Source
 - Create GridLink Data Source
 - Configure Multi Data Sources
 - Configure Advanced Settings for Data Source
 - Configure JDBC Connection Pooling
 - Create Work Manager
- **Configure Resource Reference in Tomcat Application Server**
 - Create Data Source
 - Define JDBC Connection Pooling
 - Configure ClassLoader for Apache Tomcat

11 Configure Work Manager in Web Application Servers

The process Modelling framework requires creating a Work Manager and mapping it to the OFSAA instance. This configuration is required for WebSphere and WebLogic Web application server types.

Configuring Work Manager in web application servers includes the following activities. See [Configure Work Manager in Web Application Servers](#) section in the [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#) to complete these procedures.

- **Configure Work Manager in WebSphere Application Server**
 - Creating a Work Manager
 - Mapping Work Manager to OFSAA WebSphere Instance
- **Configure Work Manager in WebLogic Application Server**

12 Additional Configurations

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

Topics:

- [Additional Configuration Checklist](#)
- [Increase the Column Length of the Tables](#)

12.1 Additional Configuration Checklist

To complete the configuration process, you may require to perform the following steps listed in the Additional Configuration Checklist. Use this checklist to verify whether these steps are completed or not. See the [Additional Information](#) section in the [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#) to complete these procedures.

Table 36: Additional Configuration Checklist

Sl. No.	Additional Configuration Activity
1	Add FTP/SFTP Configuration for File Transfer.
2	Configure the Infrastructure Server Memory.
3	Configure the Internet Settings.
4	Set OLAP Data Server Configuration.
5	Change IP or Hostname, Ports, Deployed Paths of the OFSAA Instance.
6	Execute the OFSAAI Setup Information Fetching Tool.
7	Execute the Encryption Changer.
8	Configure the Infrastructure LDAP Configuration.
9	Enable Parallel Execution of DML statements
10	Clear the application cache.
11	Configure password changes.
12	Configure Java Virtual Machine.
13	Configure Internal Service (Document Upload/Download).

13 Migrate Excel Upload Functionality

See the [Migrate Excel Upload Functionality](#) section in the [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#) to complete the procedures.

14 Frequently Asked Questions (FAQs) and Error Dictionary

For FAQs and installation error-related information, see the section [Frequently Asked Questions \(FAQs\) and Error Dictionary](#) in the [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#).

14.1 Application Pack 8.1.1.0.0 FAQs

You can see the Frequently Asked Questions which is developed with the interest to help you resolve some of the Oracle Insurance Accounting Analyzer Installation and configuration issues. This intends to share the knowledge of problem resolution to a few of the known issues. This is not an official support document and just attempts to share the knowledge of problem resolution to a few of the known issues.

1. What is an Application pack?

An Application Pack is a suite of products.

2. Can I get a standalone installer for OFSAAI 8.1?

No. AAI is part of every application pack and installs automatically.

3. Where can I download Oracle Insurance Accounting Analyzer 8.1.1.0.0 Application Pack?

You can download the OFSAAI 8.1.1.0.0 Application Pack My Oracle Support (MOS).

4. What are the minimum system and software requirements for the Oracle Insurance Accounting Analyzer 8.1 Application Pack?

See the [Hardware and Software Requirements](#) for more information.

5. Is my environment compatible with Oracle Insurance Accounting Analyzer 8.1.1.0.0 Application Pack?

Environment Check utility performs the task. It is part of the install and can also be run separately.

6. Does the Oracle Insurance Accounting Analyzer 8.1.1.0.0 Application Pack support all Operating systems?

See the [Hardware and Software Requirements](#) section.

7. How can I install the OFS AAI 8.1.1.0.0 Application Pack?

See the [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#).

8. Does this installation require any Third-party Software?

For details on the third-party software tools used, see the [OFSAA Licensing Information user Manual](#) Release 8.1.1.0.0.

9. What languages are supported during the OFSAA 8.1.1.0.0 Application Pack installation?

US English is the language supported.

10. What mode of installations OFSAA Application Pack supports [that is., Silent, GUI]?

OFSAA Application Packs support only Silent Mode.

11. Does OFSAA 8.1.1.0.0 Application Pack support Multi-tier Installations?

OFSAA 8.1.1.0.0 supports only a single-tier installation. For more information, see the [Frequently Asked Questions \(FAQs\) and Error Dictionary](#) section.

12. Does this Application Pack validate all prerequisites required for this installation like Memory, Disk Space, and so on?

Yes. The pre-requisite checks are done by the respective application pack installer.

13. What happens if it aborts during the installation of any application or products within an Application pack?

You must restore the system and retrigger the installation

14. Does this Application pack 'Roll Back' if any application installation fails due to errors?

The rollback of installation is not supported.

15. Does the Application pack install all applications bundled?

All application pack system files are installed but there is an option to enable the licensed products.

16. Can I re-install any of the Application Packs?

You can retrigger in case of failure.

17. Does this Application pack allow enabling or disabling any of the applications installed?

Yes, you can enable but you cannot disable it once the product is enabled in an environment.

18. I have installed one application in an Application pack, can I install any of the new applications within the Application pack later?

No, the installation of additional applications is not required. If you wish to add an application later, you can enable the application at that time.

19. How many OFSAA Infrastructures can be installed in a single server?

20. There is no issue in installing separate OFSAAI installations, each with its own PFT/FTP installations and separate associated database instances and separate web server installations on the same server as long as adequate memory is allocated for each instance and as long as each OFSAAI installation is installed using a separate UNIX user and profile. Care must be taken when running multiple OFSAAI installations on a single server. Adequate memory is required for each installation as several OFSAAI processes (model upload, DEFQ services, and so on) take significant amounts of memory. So it depends on your server's memory.

21. Is it possible to install OFSAA 8.1.1.0.0 Application pack on an existing 'Infodom' where another OFSAA 8.1.1.0.0 application is installed?

Yes. However, the Behavioral Detection Application Pack and Compliance Regulatory Reporting Application pack are the exceptions. They must be installed in a different Infodom.

22. Can I select an Infodom for the Application pack during installation?

Yes. You can select or change the required infodom.

23. Can I install all Application Packs in a Single Infodom?

Yes. But, the Behavioral Detection Application Pack and Compliance Regulatory Reporting Application Pack are the exceptions. They must be installed in a different Infodom.

24. Is it possible to install applications on different Infodom within the Application pack (for example, I want to install IIA and MR in two infodoms)?

Applications within the application pack have to be installed in the same information domain in the same environment.

25. How many Infodoms can be created over a single OFSAA Infrastructure of 8.1.1.0.0?

You can install only one infodom during installation. But after installation, you can create multiple infodoms.

26. Is the 'Data Model' bundled specifically to an Application pack or an individual application?

A merged data model for all applications within the application pack is bundled and uploaded.

27. Is it possible to install OFS Enterprise Modeling later?

OFS Enterprise Modeling is a separate product and can be enabled as an option later from any application pack that bundles Enterprise Modeling. For more information, see Enable Financial Services Enterprise Modeling on Another Application Pack section in the [OFS AAI Release 8.1.1.0.0 Installation and Configuration Guide](#).

28. Does the Application pack create a sandbox automatically for the required applications?

Yes, Sandbox creation is part of the application install process.

29. Are upgrade Kits available for individual applications or the complete Application Pack?**30. Maintenance Level (ML) Release and Minor Release upgrades are available across all applications.****31. Can I upgrade to AAI only?**

Yes, you can upgrade to AAI alone.

32. Can I upgrade one application within the Application Pack (for example, I want to upgrade IIA in the Treasury Application pack, but not MR.)?

No, an upgrade is applied to all applications in the application pack.

33. Is it possible to uninstall any Application from the Application pack?

No, it is not possible to uninstall any Application from the Application Pack.

34. Can I uninstall the entire Application Pack?

No, you cannot uninstall the Application Pack.

35. Is it possible to uninstall only the application and retain AAI in the installed environment?

No, you cannot uninstall only the application and retain AAI in the installed environment.

36. Does Application Pack contain all Language Packs supported?

Language Packs must be installed on the application packs.

37. Can I install an Application Pack over another Application Pack (that is the same infodom or different infodom)?

Yes, you can install an Application Pack over another Application Pack in the same information domain or different information domain. But Behavioral Detection Application Pack and Compliance Regulatory Reporting Application Pack, Asset Liability Management Application Pack, and Profitability Application Pack are the exceptions. They must be installed in a different Infodom.

38. What should I do if I get the error message: HostName in the input XML file is not matching with the local hostname while running the schema creator utility?

One possible reason can be the machine is configured for zonal partitioning. Ensure all the known IP Addresses of the machine are present in the `/etc/hosts` file.

39. What are the Java versions supported in Oracle Insurance Accounting Analyzer Application Pack version 8.1.1.0.0?

See the [Hardware and Software Requirements](#) section.

40. Is OFSAAI Application Pack version 8.1.1.0.0 supported on Java 9 and Java 11?

For information about supported Java versions, see the [Hardware and Software Requirements](#) section

41. What should I do when I get the message: "[ERROR] - Error: APP Setup bin file failed." during OFS_Application_PACK installation?

This is a generic error message that appears during application installation failure. You must check the installation log files for more information about what failed the installation.

However, if the message is displayed and the log files are not generated, this can be a temp directory issue. The resolution is that your UNIX administrator has to disable the NOEXEC option. The installers extract the installation files into the `/tmp` directory, and if NOEXEC is enabled, the execution of binaries will not happen in the directory and the installation fails. Re-run the installer after the configuration is changed. For detailed information, see the support note at <https://support.oracle.com/epmos/faces/DocumentDisplay?id=2340045.1>.

OFSAA Support

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

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