

Oracle® Insurance Accounting Analyzer Installation Guide



Release 8.1.2.3.0

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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Oracle Insurance Accounting Analyzer Installation Guide, Release 8.1.2.3.0

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Primary Authors: (primary author), (primary author)

Contributing Authors: (contributing author), (contributing author)

Contributors: (contributor), (contributor)

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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.

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 Installation Guide
 - * OFS Insurance Accounting Analyzer User Guide
 - For new customers of Oracle Insurance Accounting Analyzer (IIA):
 - * OFS Insurance Accounting Analyzer Release Notes
 - * OFS Insurance Accounting Analyzer Installation Guide
 - * OFS Insurance Accounting Analyzer 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](#)
 - * [OFS Analytical Applications 8.1.x 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 1-1 Document Conventions

| Convention | Meaning |
|------------|--|
| boldface | Boldface type indicates graphical user interface elements associated with an action or terms defined in text or the glossary. |
| italic | Italic type indicates book titles, emphasis, or placeholder variables for which you 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 1-2 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 |
| OFSA | Oracle Financial Services Analytical Applications |
| OFSAI | Oracle Financial Services Analytical Application Infrastructure |
| OFSAAI | 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 |
| 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 |

Table 1-2 (Cont.) Abbreviations

| Abbreviation | Meaning |
|---------------------|----------------------------|
| XML | Extensible Markup Language |

2

Introduction to 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 on the financial accounts of insurance companies.

2.1 Overview

Insurance companies need to identify the risks that arise from the insurance contracts along with the calculation of assets and liabilities. IFRS 4 was introduced in March 2004 and was intended to provide limited improvements to accounting for insurance contracts. IFRS 4 permitted companies to continue previous accounting practices for insurance contracts but did enhance the disclosure requirements.

IFRS17 standards, released in May 2017, supersede the current reporting standards IFRS 4 on accounting for insurance contracts and have an effective date of 1 January 2021. The new standards provide users of financial statements with a new perspective on the financial accounts of insurance companies. IFRS 17 introduces an approach that tackles some challenges in accounting for insurance contracts currently addressed inconsistently when a company applies IFRS 4.

- IFRS 17 provides updated information about the obligations, risks, and performance of insurance contracts.
- Increases transparency in financial information reported by insurance companies, which will give investors and analysts more confidence in understanding the insurance industry.
- Introduces consistent accounting for all insurance contracts based on a Current Measurement Model.

2.2 Why Oracle Insurance Accounting Analyzer?

Oracle Insurance Accounting Analyzer application follows the Accounting standards diligently and enables insurance companies to adhere to the disclosure requirements as proposed under Accounting, along with an ability to compute Contractual Service Margin and Net Liabilities.

IFRS 17 requires Insurance companies to have consistent accounting standards for the Insurance contracts which ensure timely recognition of losses in the book of accounts. Insurance companies are required to 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 organizations in arriving at 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.

3

Oracle Insurance Accounting Analyzer (OFS IIA) Release 8.1.2.3.0

Oracle Insurance Accounting Analyzer v8.1.2.3.0 Maintenance Level (ML) release includes all the bug fixes and minor enhancements since the previous release v8.1.2.2.0.

3.1 Pre Installation Requirements

The prerequisites are as follows:

- For fresh installation, release v8.1.2.3.0 can be installed on top of release v8.1.2.0.0.
- For upgrade, release v8.1.2.x (including 8.1.2.x patches) onwards is supported. For more information on upgrading, see the Release 8.1.2.0.0 Oracle Insurance Accounting Analyzer Installation Guide
- The minimum patch set level must be 8.1.2.0.0.

For more information on the OFS AAI requirements, see OFS Advanced Analytical Applications Infrastructure Application Pack 8.1.2.0.0 Release Notes in [OHC Documentation Library](#).

3.2 Installing this Maintenance Level Release

To install this ML release, follow these steps:

Note:

If you want to install OFS IAA and OIP in the same environment, please contact OFSAA Support via [My Oracle Support](#).

1. Login to [My Oracle Support](#) and search for **35389842** under the **Patches & Updates** tab.
2. Download the Erwin data model patch **35389833**.
3. Download the *OFSAA 8.1.2.3.0 IAA* archive file and copy it to your OFSAA server in Binary mode.

Note:

There are different archive files for different operating systems such as Solaris, and RHEL/OEL.

4. Stop all the OFSAAI Services. For more information, see the Start/Stop Infrastructure Services section in [Oracle Insurance IFRS 17 Pack Installation Guide Release 8.1.2.0.0](#).
5. Login to the OFSAA Server as a non-root user and navigate to the \$FIC_HOME folder.

6. Assign WRITE permission to the file/folders such as common scripts, EXEWebService, ficapp, and ficweb, and find them in the \$FIC_HOME folder by executing the command:

```
chmod -R 775 *
```
7. If you have to Unzip utility, skip to the next step or 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 8.1.2.3.0 ML.
 - Uncompress the unzip installer file using the command:

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

 **Note:**

If you notice an error message "*uncompress: not found [No such file or directory]*" when the package is not installed, contact your UNIX administrator.

8. Give EXECUTE permission to the utility by using the command:

```
chmod 751 unzip_<os>
```
9. Extract the contents of the 8.1.2.3.0 ML archive file by using either of the following commands:

```
unzip <name of the file to be unzipped>
```
10. Update the configuration file `params.conf` file present in the `OFS_IIA_PACK/appsLibConfig/conf` folder before triggering the installation. The update instructions are present in this file itself.
In case of customized Data Model Upload, then update the `params.conf` file present in the `OFS_IIA_PACK/appsLibConfig/conf` folder accordingly.
11. Give EXECUTE permission to the ML Patch Installer Script. Navigate to the `OFS_AAI` directory and execute the command:

```
chmod 755 OFSAAIUpdate.sh
```
12. Execute the following command:

```
./OFSAAIUpdate.sh
```
13. Verify if the ML is applied successfully by checking the log files generated in `OFS_IIA_PACK/OFS_IIA/logs` directories. You must also verify the Data Model logs, the path can be found in the `silent.props` file of the release `v8.1.2.0.0` file. You can ignore `ORA-00001` and `ORA-02292` in the log file. In case of any other errors, contact [My Oracle Support](#).
14. After successful installation of the ML, perform the following steps:
 - Clear the Application Cache. Navigate to the following path depending on the configured Web Application Server and delete the files.
 - a. **Tomcat:** `<Tomcat installation folder>/work/Catalina/localhost/<Application name>/org/apache/jsp`
 - b. **Weblogic:** `<Weblogic installation location>/domains/<Domain name>/servers/<Server name>/tmp/_WL_user/<Application name>`
 - c. **Websphere:** `<Websphere installation directory>/AppServer/profiles/<Profile name>/temp/<Node name>/server1/<Application name>/<.war file name>`

15. Delete the existing EAR/WAR file available in the folder `$FIC_HOME/ficweb`.
16. Generate the application EAR/WAR file and redeploy the application onto your configured Web Application Server. For more information on generating and deploying the EAR/WAR file, see [Create and Deploy the EAR or WAR Files](#) in OFS AAI Release 8.1.2.0.0 Installation and Configuration Guide.
17. Restart all the OFSAAI Services. For more information, refer to the [Start/Stop Infrastructure Services](#) section in OFS AAI Release 8.1.2.0.0 Installation and Configuration Guide.

3.3 Post Installation Configurations

This section provides information on the post-installation configurations.



Note:

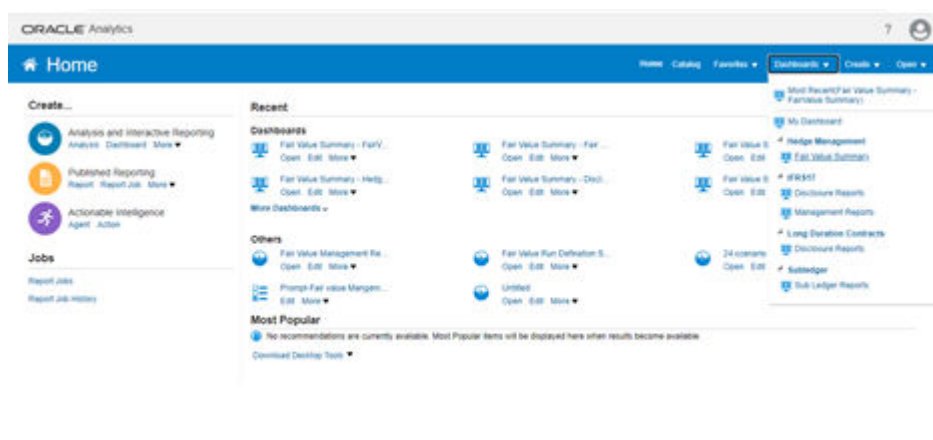
After installing the Oracle Insurance Accounting Analyzer Release v8.1.2.3.0 application, if the Oracle Insurance Data Foundation release v8.1.2.3.0 application is installed, then the column **STG_PROP_CASUALTY_CONTRACTS_V**, related to **SCD-224**, overwrites the view in the column **V_DIRECT_INDIRECT**.

3.3.1 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:

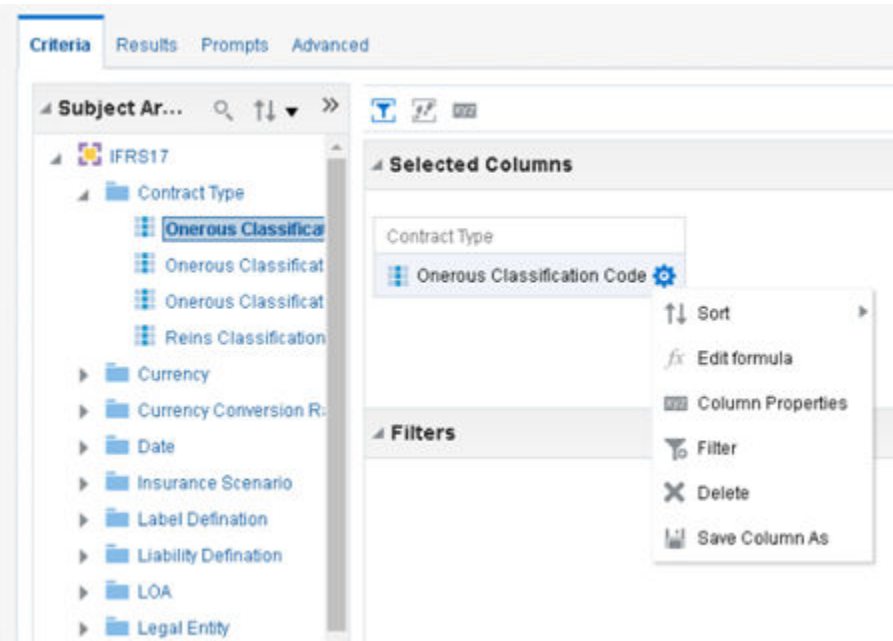
1. Deploy the RPD. For more information, see the **OBIEE Configuration - Deploy OFS IIA Analytics** section in the Release 8.1.2.0.0 [Oracle Insurance Accounting Analyzer Installation Guide](#).
2. Host the RPD in the server where you have configured OBIEE or OAS and Catalog for the Oracle Insurance Accounting Analyzer application as part of this release.
3. Log in to OBIEE or OAS by using the URL format (`http://<ipaddress>:<port>/analytics`) to open the home page.

Figure 3-1 The Analytics Home Page



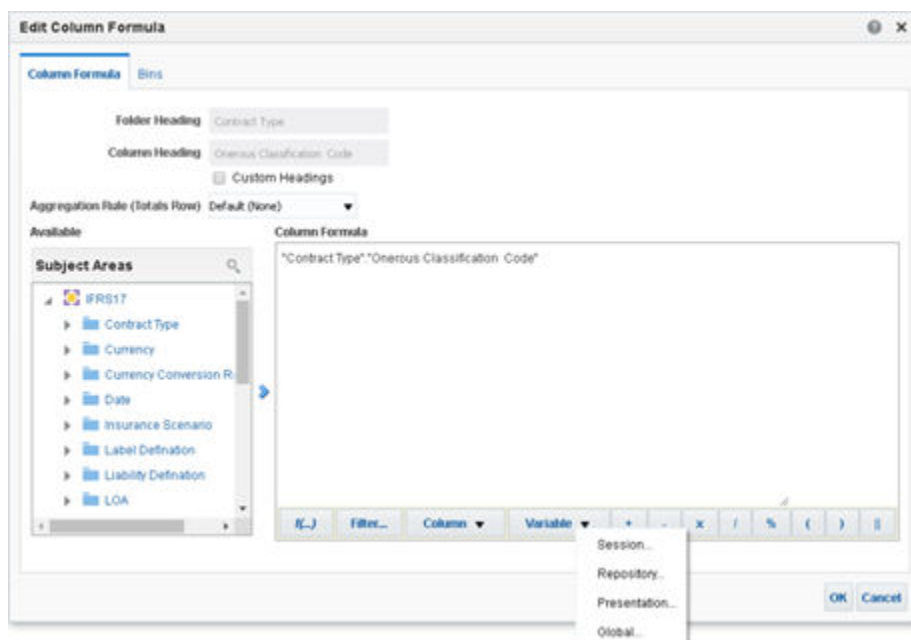
4. In the **Dashboards** drop-down list, click **Disclosure Reports** to open the dashboard.
5. Click **Edit** on any of the reports to open the settings window.
6. In the **Criteria** tab, in the **Selected Columns** pane, click the **Onerous Classification Code**.
7. Click **Settings** to open the settings submenu.

Figure 3-2 The Settings icon adjacent to the Onerous Classification Code



8. Click **Edit Formula** to open the **Edit Column Formula** window.

Figure 3-3 The Edit Column Formula



9. In the Variables drop-down list, select **Global...** to open the **Insert Global Variable** window.
10. Select the Global Variable that you want to edit, and then click **Edit Global Variable**.
11. Edit a global variable with the following details:

Table 3-1 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.

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

3.3.2 Custom Variables

If you have created Custom Direct Insurance and Reinsurance variables from the VariableMaintenance screen, then you must add the corresponding direct and Reinsurance variable columns in the following tables in the Erwin Data Model:

1. For Direct Insurance Variables, add the corresponding variable column to the following tables:
 - FSI_INS_CONTRACT_INPUT_DETAIL
 - FSI_INS_GROUP_INPUT_DETAIL
 - FCT_INS_ACSTVAL_DIRCONT_DTLS
 - FCT_INS_ACSTVAL_DIRGROUP_DTLS
2. For Reinsurance Input Variables, add the corresponding variable column to the following tables:
 - FSI_RI_CONTRACT_INPUT_DETAIL
 - FSI_RI_GROUP_INPUT_DETAIL
 - FCT_INS_ACSTVAL_RICONT_DTLS
 - FCT_INS_ACSTVAL_RIGROUP_DTLS
3. Upload the Erwin Data Model.

3.3.3 Create the Business Unit Hierarchy

If any Level of Aggregation (LOA) is defined by enabling the Business Unit dimension, then it is mandatory to create a Business Unit Hierarchy where all the business units that are selected in the LOAs are at the leaf level. In **DimensionManagement**, in the **HierarchyMaintenance** section, create a hierarchy for the Business Unit Dimension. For more information on creating a hierarchy, see the **HierarchyMaintenance** section in the [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

After the hierarchy is created, the below SQL statement must be executed in the atomic schema:

```
INSERT INTO FSI_M_IIA_AGGR_DIMENSION_DTLS (LEVEL_OF_AGGR_ID, DIMENSION_ID,
HIERARCHY_ID, DIM_MEMBER_ID)

SELECT DIM_MAP.LEVEL_OF_AGGR_ID, DIM_MAP.DIMENSION_ID,
DIM_MAP.HIERARCHY_ID, DIM_MAP.DIM_MEMBER_ID

FROM ( SELECT DISTINCT DM.LEVEL_OF_AGGR_ID, (SELECT DIMENSION_ID FROM
REV_DIMENSIONS_B WHERE MEMBER_B_TABLE_NAME = 'DIM_BUSINESS_UNIT_B' AND
MEMBER_COL='BUSINESS_UNIT_ID') DIMENSION_ID, &HIERARCHY_ID HIERARCHY_ID,
DBUB.BUSINESS_UNIT_ID DIM_MEMBER_ID

FROM FSI_IIA_AGGR_NON_HIER_DIM_MAP DM

INNER JOIN DIM_BUSINESS_UNIT DBU ON DBU.N_BUSINESS_UNIT_SKEY = DM.DIM_CD
AND DM.DYNA_NAME = 'BIUT'

INNER JOIN DIM_BUSINESS_UNIT_B DBUB ON DBUB.BUSINESS_UNIT_CODE =
DBU.V_BUSINESS_UNIT_CODE) DIM_MAP

WHERE NOT EXISTS (SELECT IAD.LEVEL_OF_AGGR_ID FROM
FSI_M_IIA_AGGR_DIMENSION_DTLS IAD WHERE IAD.LEVEL_OF_AGGR_ID =
DIM_MAP.LEVEL_OF_AGGR_ID AND IAD.DIMENSION_ID = DIM_MAP.DIMENSION_ID AND
IAD.DIM_MEMBER_ID = DIM_MAP.DIM_MEMBER_ID)

/
```

When prompted for the HIERARCHY_ID value, enter the ID of the Business Unit Hierarchy.