Oracle® Insurance Loss Modeller
Installation Guide

Release 8.1.2.8.0
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Introduction to Oracle Insurance Loss Modeller

The application projects future cash flows based on the various actuarial methods. The output of the application is useful in different processes such as Capital Modeling, Business Planning, Reserving, AvE, IFRS17 computation, and so on.

The overall application is segregated into two parts; the Landing Page and the Projection Page. The Landing Page is a dashboard that summarizes the Key Performance Indicators such as GWP, Exposure, Losses, Loss Ratios, Major Drivers, Incurred Loss Frequency and severity, etc. with an option to customize and view them at Business Unit, Line of Business, Product, Sub Product, and further coverage levels.

The Projection Page facilitates the working space for the Projection Calculation under various approaches such as Chain Ladder, BF, etc. at Business Unit, Line of Business, Product, Sub Product, and further coverage levels.

2

Oracle Insurance Loss Modeller (OILM) Release 8.1.2.8.0

Oracle Insurance Loss Modeller v8.1.2.8.0 Maintenance Level (ML) release includes all the bug fixes and minor enhancements since the previous release v8.1.2.1.0.

Pre Installation Requirements

The prerequisites are as follows:

- The minimum patch set level must be 8.1.2.0.0 and 8.1.2.1.0.
- Update the OFSAA 8.1.1.x Java 8 Instance to Java 11. For more information on updating the Java instance, see the OFS AAI Installation Guide.

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.

Installing this Maintenance Level Release

Oracle Linux 9 Server Support

The OFS AAI 8.1.2.5.x release supports Oracle Linux 9 Server in addition to the continued support on Oracle Linux 8 and Oracle Linux 7.

> ✎ **Note:**
>
> The Oracle Linux 9 Server Configuration section applies to upgrade installation of OFS AAI and the New Installation of OFS AAI 8.1.2.0.0 with Oracle Linux 9 Server section applies to new installation of OFS AAI.

New Installation of OFS AAI 8.1.2.0.0 with Oracle Linux 9 Server: To install the OFS AAI 8.1.2.0.0 base installer with Oracle Linux 9 Server, follow the instructions in the My Oracle Support Doc ID 3067623.1 and then upgrade to OFS AAI 8.1.2.5.0.

Installing this Maintenance Level Release

To install this Maintenance Level Release, follow these steps:

1. Login to My Oracle Support and search for **37369908** under the **Patches & Updates** tab.
2. Download the Erwin data model patch **37369984**.
3. Download the *OFSAA 8.1.2.8.0 OILM* 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 Loss Modeller 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, 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 8.1.2.1.0 ML.

    * Uncompress the unzip installer file using the command:
      `uncompress unzip -a OFS_OILM_8.1.2.1.0_<OS>.zip`

    > **✎ 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 755 unzip_<os>`

9. Extract the contents of the 8.1.2.8.0 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_OILM_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_OILM_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_OILM_PACK/OFS_OILM/logs` Directories. You must also verify the Data Model Logs, the path can be found in the `silent.props` 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.

        – **Tomcat:** `<Tomcat installation folder>/work/Catalina/localhost/<Application name>/org/apache/jsp`

- **Weblogic:** `<Weblogic installation location>/domains/<Domain name>/ servers/<Server name>/tmp/_WL_user/<Application name>`

- **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.

Post Installation Configurations

This section provides information on the post-installation configurations.

Configure Server.xml for Tomcat 9x

Perform the following step to configure server.xml for Tomcat9x:

Edit the server.xml File that is present under the $TOMCAT_DIRECTORY/conf/ Directory with the following changes that is required for Connection Pooling.

```
<Context path="/ $CONTEXTNAME$" docBase=" $APP_DEPLOYED_PATH$ "

debug="0" reloadable="true" crossContext="true">

<Resource auth="Container" name="jdbc/ $INFODOM_NAME$"

type="javax.sql.DataSource"

driverClassName="oracle.jdbc.driver.OracleDriver" username="

$ATOMICSCHEMA_USERNAME$" password="$ATOMICSCHEMA_PASSWORD$"

url="$JDBC_CONNECTION_URL"

maxTotal="300" maxIdle="30" maxWaitMillis="10000"

removeAbandonedOnBorrow="true" removeAbandonedTimeout="60"

logAbandoned="true"/>

</Context>
```

For more information, refer to the Define JDBC Connection Pooling Section in the OFS AAAI Installation Guide.

Configure the OILM Configuration Tables

Perform the following steps to configure the OILM Configuration Tables.

1. In the Atomic Schema, populate the FSI_OILM_CONFIGURATION_DETAILS Table as tabulated:

Sl No	Column Name	Parameters
1	OBJECT_ID	The serial number. Example: 1, 2,3 for every row.
2	APP_ID	The default value is OFS_OILM.
3	USER_ID	The application username. Example: OILMUSER and SYSTEM must be given as default users.
4	DIMENSION_MAP_KEY	By default, the SYSTEM and USERID must be inserted with a different DIMENSION_MAP_KEY. Example: Only Numeric values such as 1,2,3.
5	TRIANGLE_DECIMAL	For the Triangle decimal column, the mandatory value should be between the ranges of 1 to 6.

This table is used to map different dimension's DIMENSION_MAP_KEY for the respective application user.

2. The dimensions mapped in the dimension selection on the OILM configuration landing page will be updated in the FSI_OILM_CONF_DIMENSION_MAPPING table.

Sl No	Column Name	Parameters
1	DIMENSION_MAP_KEY	The serial number. Example: 1, 2,3 for every row.
2	DIMENSION_NAME	By default for each application user, the first dimension must be the Legal Entity The User can map 10 dimensions, including the Legal Entity Dimension, out of 20 Dimensions available in the OILM Application. The list of Dimension can be referred to from the REV_DIMENSIONS_TL Seeded Data Table.
3	ORDER_ID	For the selected 10 Dimensions, the first dimension must always be Legal Entity and the DIMENSION_MAP_KEY must be 1.

This table is used to map different dimension's for the respective application user.