

Oracle Financial Services Loan Loss Forecasting and Provisioning

Installation Guide

Release 8.1.1.1.0

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ORACLE
Financial Services

Oracle Financial Services Loan Loss Forecasting and Provisioning Installation Guide

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Document Control

Version Number	Revision Date	Change Log
1	May 2021	Created the document with instructions for the installation of the Oracle Financial Services Loan Loss Forecasting and Provisioning Release 8.1.1.1.0.

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1 Preface

This section provides supporting information for the Oracle Financial Services Loan Loss Forecasting and Provisioning 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 Financial Services Loan Loss Forecasting and Provisioning 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 Financial Services Loan Loss Forecasting and Provisioning 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 Financial Services Loan Loss Forecasting and Provisioning:](#)

For existing customers of Oracle Financial Services Loan Loss Forecasting and Provisioning (LLFP):

- *OFS LLFP 8.1.1.1.0 Installation Guide*
- *OFS LLFP 8.1.1.1.0 User Guide*

- For new customers of Oracle Financial Services Loan Loss Forecasting and Provisioning (LLFP):
 - *OFS LLFP 8.1.1.1.0 Release Notes*
 - *OFS LLFP 8.1.1.1.0 Installation Guide*
 - *OFS LLFP 8.1.1.1.0 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 8.1.0.0.0](#)
 - [OFS Analytical Applications 8.1.0.0.0 Technology Matrix](#)
 - [OFS Analytical Applications Infrastructure Security Guide](#)
 - [Oracle Financial Services Loan Loss Forecasting and Provisioning Security Guides Release 8.1.x](#)
 - [Oracle Financial Services Analytical Applications Infrastructure Cloning Guide](#)
 - [Oracle Financial Services Loan Loss Forecasting and Provisioning Cloning Guide release 8.0.x](#)
 - [Oracle Financial Services Loan Loss Forecasting and Provisioning 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: 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.

Convention	Meaning
<code>monospace</code>	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 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
OFSAA	Oracle Financial Services Analytical Applications

Abbreviation	Meaning
OFSAAI	Oracle Financial Services Analytical Application Infrastructure
OFSAAAI	Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack
OFS LLFP	Oracle Financial Services Loan Loss Forecasting and Provisioning
OHC	Oracle Help Center
OLAP	On-Line Analytical Processing
OLH	Oracle Loader for Hadoop
ORAAH	Oracle R Advanced Analytics for Hadoop
OS	Operating System
RAM	Random Access Memory
RDBMS	Relational Database Management System
RHEL	Red Hat Enterprise Linux
SFTP	Secure File Transfer Protocol
SID	System Identifier
SSL	Secure Sockets Layer
TNS	Transparent Network Substrate
URL	Uniform Resource Locator
VM	Virtual Machine
WAR	Web Archive
XML	Extensible Markup Language

2 Introduction to Oracle Financial Services Loan Loss Forecasting and Provisioning

International Financial Reporting Standards (IFRS) guidelines have set out new requirements on the classification and measurement of financial assets and liabilities. It specifies two approaches for the measurement of assets namely Amortized Cost and the Fair Value approach. The scope of Oracle Financial Services Loan Loss Forecasting and Provisioning is to focus only on the amortized cost approach.

3 Oracle Financial Services Loan Loss Forecasting and Provisioning (OFS LLFP) Release 8.1.1.1.0

Oracle Financial Services Loan Loss Forecasting and Provisioning v8.1.1.1.0 Maintenance Level (ML) release includes all the bug fixes and minor enhancements since the previous release v8.1.1.0.0.

3.1 Pre Installation Requirements

The prerequisites are as follows:

NOTE	If the operating system is Linux or Red Hat Enterprise Linux, install the package <code>lsb_release</code> with one of the following commands by logging in as root user: <code>yum install redhat-lsb-core</code> or <code>yum install redhat-lsb</code>
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- The minimum patch set level must be 8.1.1.0.0.

See the [OFS Analytical Applications Technology Matrix](#), for hardware and software requirements.

For more information on the OFS AAI requirements, see OFS Advanced Analytical Applications Infrastructure Application Pack 8.1.1.1.0 Release Notes in [OHC Documentation Library](#).

3.2 Installing this Maintenance Level Release

To install the ML Release, follow these steps:

1. Login to [My Oracle Support](#) and search for **33138493** under the **Patches & Updates** tab.
2. Download the Erwin Data Model patch **33148528**.
3. Download the *OFSAA 8.1.1.1.0 LLFP* 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.
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4. Stop all the OFSAAI Services.
For more information, see the Start/Stop Infrastructure Services section in [Oracle Financial Services Loan Loss Forecasting and Provisioning Installation Guide Release 8.1.1.0.0](#).
5. Login to the OFSAA Server as a non-root user and navigate to the `$FIC_HOME` folder.
6. Assign WRITE permission to the file/folders such as common scripts, EXEWebService, ficapp, ficweb, and find in the `$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 8.1.1.1.0 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 8.1.1.0 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_LLFP_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_LLFP_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_LLFP_PACK/OFS_LLFP/logs` and `OFS_LLFP_PACK/logs` directories. 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 8.1.1.0.0 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 8.1.1.0.0 Installation and Configuration Guide.

3.3 Post Installation Configurations

This section provides information on the post-installation configurations.

3.3.1 Mandatory Patches

The following table includes information about the mandatory patches that must be applied.

Table 3: Mandatory Patch

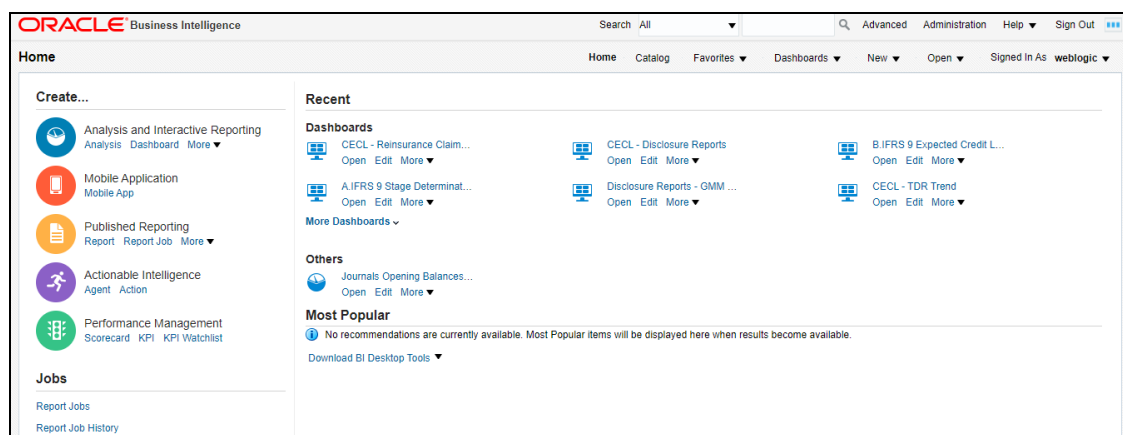
One-Off Patch	Description
33663417	Ensure that whenever any installation or upgrade or an incremental patch is applied, the mandatory patch 33663417 for Log4J must be reapplied. For more information, see the MOS Doc ID 2827801.1 .
33112352	This is a mandatory OFS AAI one-off patch.
33436535	This is a mandatory OFS LLFP one-off patch.
33995565	This is a mandatory AAI one-off patch.
34058716	This is a mandatory AAI one-off patch.

3.3.2 Editing Global Variables for OBIEE or OAS

To edit the global variables for OBIEE, in this release of the Oracle Financial Services Loan Loss Forecasting and Provisioning Application, follow these steps:

1. Deploy the RPD.
For more information, see the **OBIEE Configuration - Deploy OFS LLFP Analytics** Section in the Release 8.1.1.0.0 [Oracle Financial Services Loan Loss Forecasting and Provisioning Installation Guide](#).
2. Host the RPD in the server where you have configured OBIEE or OAS and Catalog for the Oracle Financial Services Loan Loss Forecasting and Provisioning Application as part of this release.

Figure 1: The Analytics Home Page





3. In the Dashboards drop-down list, click CECL 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 Criteria (“IFRS 9”).
6. Click **Settings** .
7. Click the **Edit formula** to open the **Edit Column Formula** Window.
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 4: 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.

3.3.3 Deploying the Webserver using Tomcat

Perform the following steps to deploy the Webserver by using Tomcat:

1. Configure the Apache Tomcat Server. For more information, see the **Configure the Apache Tomcat Server** section in [OFS Analytical Applications Infrastructure Installation and Configuration Guide](#).
2. After configuring the Apache Tomcat Server, create the Data Source. For more information, see the **Create Data Source** section in [OFS Analytical Applications Infrastructure Installation and Configuration Guide](#).

3.4 Appendix – Sandbox Creation in an Integrated Set up (OFS LLFP with OFS ALM)

If EMF Models and the Sandbox feature are used then ensure that the **fk_835_156.sql** script file is removed from the below path:

```
<ftpshare path>/<Name of the INFODOM>/json/scripts/table/fkeys  
/fk_835_156.sql
```

3.5 Frequently Asked Questions (FAQs) and Error Dictionary

For General FAQs and installation error-related information, see the following sections:

[Frequently Asked Questions \(FAQs\) and Error Dictionary](#) in the [OFS AAI Installation and Configuration Guide](#).

3.5.1 OFS LLFP FAQ

How do I upgrade the Java version to JDK 11?

See the Update the [OFSAA 8.1.1.x Java 8 Instance to Java 11](#) section in the [OFS AAI Installation and Configuration Guide](#).

OFSAA Support

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

Send Us Your Comments

Oracle welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

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Before sending us your comments, you might like to ensure that you have the latest version of the document wherein any of your concerns have already been addressed. You can access My Oracle Support site that has all the revised/recently released documents.

