Oracle Financial Services Asset Liability Management

Installation Guide

Release 8.0.7.8.0

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ORACLE[®] Financial Services



OFS Asset Liability Management Installation Guide

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Document Control

Version Number	Revision Date	Change Log
1.0	August 2022	Created the document to capture OFSALM 8.0.7.8.0 Maintenance Level Release.

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1 OFS ALM Release v8.0.7.8.0

OFS Asset Liability Management Installation Guide (OFS ALM) Maintenance Level (ML) release v8.0.7.8.0 includes all the bug fixes and minor enhancements done since the previous GA (General Availability) release v8.0.7.0.0.

This ML release of OFS ALM can be installed on a setup with any Oracle Financial Services Asset Liability Management (OFS ALM) v8.0.7.0.0 Application Pack.

1.1 Conventions and Acronyms

Conventions	Description		
Screen actions are indica	Screen actions are indicated in Bold		
IR	Interim Release		
ML	Maintenance Level Release		
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure		
ОНС	Oracle Help Center		
AIX	Advanced Interactive eXecutive		
RHEL	Red Hat Enterprise Linux		
OEL	Oracle Enterprise Linux		
OS	Operating System		
EAR / WAR	Enterprise Archive / Web Archive		
J2EE	Java 2 Enterprise Edition		
OTN	Oracle Technology Network		
JCE	Java Cryptography Extension		
Atomic Schema	Database schema where the application data model is uploaded.		
Configuration Schema	Database schema which contains setup related configurations and metadata.		

1.2 Pre-installation Requirements

- The minimum patch level installed must be OFS ALM Release **8.0.7.0.0**.
- OFS ALM Release v8.0.7.8.0 is compatible with WebLogic **12.2.x** and does not support WebLogic **12.1.3**. If the WebLogic version is 12.1.3, upgrade to WebLogic 12.2.x.
- Ensure that the unlimited cryptographic policy for Java is enabled during the installation of OFS ALM 8.0.7.0.0. For more information, see the *Enabling Unlimited Cryptographic Policy* section in the <u>Oracle Financial Services Asset Liability Management Installation & Configuration Guide</u> 8.0.7.0.0.
- It is mandatory to install the OFS ALM 8.0.7.8.0 ML only on *Java 8 with JCE enabled*. Therefore, configure the Java version of the following to *Java 8 with JCE enabled*.
 - OFSAA Processing Tier (where the ML will be installed)
 - Web server (Tomcat/WebSphere/WebLogic)

NOTE To upgrade Java 7 in an existing OFSAA 8.0.7.x.x instance to Java 8, see *Appendix P* in the <u>Oracle Financial Services Asset</u> <u>Liability Management Installation & Configuration Guide</u> 8.0.7.0.0.

1.2.1 Oracle Database 19c Server and Client Support

The OFSAA 8.0.7.8.x release supports Oracle Database 19c in addition to the continued support on Oracle Database 12c.

NOTE The <u>Oracle Database 19c Server Configuration</u> and <u>Oracle Database 19c Client Configuration</u> sections apply to upgrade installation of OFS AAI and the <u>New Installation of OFS AAI</u> 8.0.7.0.0 with Oracle Database 19c section applies to new installation of OFS AAI.

1.2.1.1 Oracle Database 19c Server Configuration

To configure the Oracle Database 19c server if the OFS ALM version is 8.0.7.x.x, follow these prerequisite steps:

- 1. Stop all the OFS AAI services. For more information, see the Starting/Stopping Infrastructure Services section in the <u>Oracle Financial Services Analytical Applications Infrastructure</u> Installation & Configuration Guide 8.0.7.0.0.
- 2. Backup the tnsnames.ora file from the existing OFSAA Processing Tier <code>\$ORACLE_HOME</code> directory.
- **3.** Upgrade the existing Oracle Database 12c or 18c server to the Oracle Database 19c server.

If there are challenges in the upgrade, configure a new instance of the Oracle Database 19c server and follow these steps:

- **a.** Ensure to restore all the schemas from the Oracle Database 12c or 18c instance to the 19c instance using the Oracle DB Data Pump feature.
- **b.** Modify the .profile file of the OFSAA Processing Tier for the ORACLE_SID environment variable to the Oracle Database 19C PDB (Pluggable Database) Service Name.
- c. Modify the JDBC URL of the new Oracle Database 19c server using the Portc utility.

1.2.1.2 Oracle Database 19c Client Configuration

To configure the Oracle Database 19c client if the OFS AAI version is 8.0.7.x.x, follow these prerequisite steps:

- 1. Install the Oracle Database 19c client on the OFSAA Processing Tier.
- 2. Modify the .profile file of the OFSAA Processing Tier for the <code>\$ORACLE_HOME</code> environment variable to point to the Oracle Database 19c client home directory.
- 3. Modify the tnsnames.ora file to point to the new Oracle Database 19c instance.

1.2.1.3 New Installation of OFS AAI 8.0.7.0.0 with Oracle Database 19c

To Install the OFS AAI 8.0.7.0.0 base installer with Oracle Database 19c, follow the instructions in the My Oracle Support note <u>Doc ID 2691006.1</u> and then upgrade to OFS AAI 8.0.7.8.0.

1.3 How to Install this Release

To install this release patch, follow these steps:

- 1. Log in to <u>My Oracle Support</u> and search for **34337113** under the Patches & Updates tab.
- 2. Download the OFS ALM 8.0.7.8.0 ML Release archive file and copy to your OFSAA server in **Binary** mode.

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

- **3.** Stop all the OFS AAI services. For more information, see the Starting/Stopping Infrastructure Services section in the <u>Oracle Financial Services Asset Liability Management Installation &</u> <u>Configuration Guide 8.0.7.0.0</u>.
- 4. Log in to the OFSAA server as a non-root user and navigate to the **\$FIC** HOME directory.
- **5.** Assign WRITE permission to the files/directories such as commonscripts, EXEWebService, ficapp, ficweb, and ficdb using the command:

chmod -R 775 *

- 6. If you have the 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 8.0.7.8.0 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.

7. Give EXECUTE permission to the utility using the command:

chmod 751 unzip <os>

For example, chmod 751 unzip aix

8. Extract the contents of the 8.0.7.8.0 ML archive file using one of the following commands:

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

Or

unzip -a <name of the file to be unzipped>

NOTE The above "-a" option is mandatory to unzip the archive file. For example: For AIX operating system, unzip_aix -a p 34337113_80780_AIX64.zip

- **9.** Update the parameters in params.conf file present in /OFS_ALM_PACK/OFS_ALM/conf/ directory. The update instructions are present in the file itself.
- **10.** Navigate to the path where the folder OFS_AAI exists to give EXECUTE permission to the ML patch installer script using the command:

chmod 755 OFSAAIUpdate.sh

11. Complete the patch upgrade using the command:

./OFSAAIUpdate.sh

12. Verify if the ML patch is applied successfully by checking the log file generated in the /OFS_ALM_PACK/OFS_ALM/logs_directory. Ignore the error codes ORA-00001, ORA-00955, ORA-01430, and ORA-02292 in the log file. For any other errors, contact <u>My Oracle Support</u>.

NOTE For upgrade on Hive Infodom, you may encounter an exception "PL/SQL: ORA-00942: table or view does not exist". You can ignore this error.

- **13.** After the successful installation of the ML, follow these steps:
- 14. Execute .profile using the following command:

. \$HOME/.profile

15. 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>
- **16.** Delete the existing EAR/WAR file available in the <code>\$FIC HOME/ficweb</code> directory.
- **17.** Install the OFSAAIRunner package. This is an optional step and applicable only if you have installed Oracle R Enterprise Edition (ORE). For more information, see <u>Installing OFSAAIRunner</u> <u>package with enhancements for OFS AAI 8.0.7.0.0</u>.
- **18.** Restart all the OFSAAI services. For more information, see the Starting/Stopping Infrastructure Services section in the <u>Oracle Financial Services Asset Liability Management Installation &</u> <u>Configuration Guide 8.0.7.0.0</u>.
- **19.** 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 the Post Installation Configurations section in the <u>Oracle Financial Services Asset Liability</u> <u>Management Installation & Configuration Guide 8.0.7.0.0</u>.
- **20.** Configure the document upload settings. See the *Configure Document Upload Settings* section in the <u>Oracle Financial Services Asset Liability Management Installation & Configuration Guide</u> <u>8.0.7.0.0</u> for more information.

1.4 Post Installation Steps

In an application-on-application/pack-on-pack installation scenario (to install another application/pack after an application/pack has been installed), reapply the patch post installation of the 8.0.7.8.0 version.

2 Additional Configurations

Topics:

Install the Updated OFSAAI Runner

2.1 Install the Updated OFSAAI Runner

NOTE	1.	This is a post-installation configuration and is applicable if you have installed Oracle R Enterprise (ORE) for Oracle Financial Services Enterprise Modeling (OFS EMF) Application.
	2.	This configuration is not applicable for Tomcat web server.

If OFS Enterprise Modeling is licensed and enabled in your OFSAA instance, uninstall the OFSAAI Runner package and reinstall the latest available OFSAAI Runner package.

For details on uninstallation and reinstallation, see the Configuring Oracle R distribution and Oracle R Enterprise (ORE) section in the <u>Oracle Financial Services Asset Liability Management Installation &</u> <u>Configuration Guide 8.0.7.0.0</u>.

3 Appendix A - Installation of R and Oracle R Enterprise (ORE)

This is an optional step and required only if you intend to use Term Structure Parameter Estimation functionality under Interest Rates of Rate Management for computing term structure parameters. Both Funds Transfer Pricing and Asset Liability Management applications require term structure parameters for all monte carlo engine based calculations (OAS, VaR and EaR).

Following are the prerequisites:

- Install R and Oracle R Enterprise Server on the Oracle Database server. See https://docs.oracle.com/cd/E57012_01/doc.141/e57007.pdf
- ORE version supported Oracle R Enterprise (Server) version 1.4.1

Configuration for Oracle R Enterprise

Grant the RQADMIN role to atomic schema.

You can grant the rqadmin role in SQL*Plus by logging in to the database with DBA privileges and provide the following privilege to Atomic Schema:

RQADMIN by executing the command: GRANT RQADMIN TO < atomic schema>;

OFSAA Support

Raise a Service Request (SR) in <u>My Oracle Support (MOS)</u> for queries related to the OFSAA applications.

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