

**Oracle Financial Services Capital
Adequacy Pack
Installation Guide**

Release 8.1.2.4.0

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ORACLE
Financial Services

OFS Capital Adequacy Application Pack

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Document Control

Version Number	Revision Date	Change Log
01	December 2023	Created the document for the OFS CAP 8.1.2.4.0 release.

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1 Preface

This section provides supporting information for the Oracle Financial Services Capital Adequacy (OFS CAP) 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 [Oracle Support](#) with the required login credentials to quickly notify us of any issue at any stage.

1.1 Audience

Oracle Financial Services Capital Adequacy (OFS CAP) Applications Pack Installation Guide is intended for administrators and implementation consultants who are responsible for installing and maintaining the application pack components.

1.1.1 Prerequisites for the Audience

The document assumes that you have experience in installing Enterprise components and basic knowledge about the following is recommended.

The following are the expected preparations from the administrator before starting the actual installation:

- Oracle Financial Services Advanced Analytical Applications Infrastructure pack components
- OFSAA Architecture
- UNIX Commands
- Database Concepts
- A Web Server or Web Application Server
- Oracle Data Integrator

1.2 Related Documents

We strive to keep this and all other related documents updated regularly; visit the [OHC Documentation Library](#) to download the latest version available there. The list of related documents is provided here:

- [OHC Documentation Library](#) for the OFS Capital Adequacy Application Pack:
 - *OFS Basel Regulatory Compliance User Guide*
 - *OFS Basel Regulatory Analytics User Guide*
 - *OFS Basel Regulatory Capital Adequacy Admin Guide*
 - *OFS Capital Adequacy Security Guide*
 - *OFS Capital Adequacy Cloning Guide*
- [OHC Documentation Library](#) for the OFS AAI Application Pack:

- *OFS Advanced Analytical Applications Infrastructure (OFS AAAI) Application Pack Installation and Configuration Guide*
- *OFS Analytical Applications Infrastructure User Guide*
- *OFS Analytical Applications Infrastructure Administration Guide*
- *OFS Analytical Applications Infrastructure Environment Check Utility Guide*
- **Additional documents:**
 - [OFSAA Licensing User Manual](#)
 - [OFS Analytical Applications Infrastructure Security Guide](#)
 - [OFS Analytical Applications Technology Matrix](#)
 - [OFS Analytical Applications Infrastructure Cloning Guide](#)

1.3 Conventions and Acronyms

Table 1: Conventions and Acronyms

Conventions	Description
Actions are indicated in Bold.	
Command or query is indicated in Courier New font.	
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
OFS AAAI	Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack
OFSCAP	Oracle Financial Services Capital Adequacy Pack
RHEL	Red Hat Enterprise Linux
IR	Minor Release
ML	Maintenance Level
Atomic Schema	Database Schema where the Application Data Model is uploaded.
Config Schema	Database Schema which contains setup related configurations and metadata.

2 OFS CAP Application Pack Release 8.1.2.4.0

This Maintenance Level (ML) Release of OFS CAP Application Pack includes all enhancements and bug fixes since the OFS CAP Application Pack version 8.1.2.0.0 Major release.

2.1 Pre-Installation Requirements

The pre-installation requirements are as follows:

- The minimum patch set level must be OFS CAP Application Pack v8.1.2.3.0.

NOTE:

See the OFS Analytical Applications Technology Matrix, for hardware and software requirements

- Replace the **##INFODOM##** placeholder and execute the [Segment_insert.sql](#) script in the Config schema to create a new segment for the Indonesia and Philippines jurisdictions.
- This release comes with two additional column changes over the bundled Datamodel. Add the changes listed in the [DataModel.xlsx](#) to the Erwin file and use the revised Data Model.

2.2 Installing OFS CAP 8.1.2.4.0 ML Release

Perform the following instructions to download, extract, install, and configure this ML Release.

To install this release, follow these steps:

1. Log in to [My Oracle Support](#), and search for patch ID 36022067 under the Patches and Updates tab.
2. Download the OFSCAP 8.1.2.0.0 ML RELEASE #3 (8.1.2.4.0) archive file and copy it 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. Shut down all the OFSAAI Services.
For more information on stopping the infrastructure services, see [OFSAAI User Guide](#).
4. Login to the OFSAA Server with the user credentials to install OFS CAP.
5. Extract the contents of the OFS CAP Application Pack v8.1.2.4.0 installer archive in the Download Directory using the following command:

```
unzip -a p36022067_81200_<OperatingSystem>.zip
```

NOTE

Rename or remove the existing OFSAA Application Pack folder from the OFSAA Server before extracting the contents from the release archive (.zip). For example, in this release, when extracted from the archive, a folder with the name `OFS_CAP_ADQ_PACK` is created. If a folder with the same name already exists in the path where the release archive is copied, rename or remove that folder. If not renamed or removed, the extracted contents will be overwritten or merged into the existing folder.

6. Update the `UPLOAD_MODEL`, `MODEL_TYPE`, `DATAMODEL` and `DM_DIRECTORY` parameters in the `params.conf` file present in the `OFS_CAP_ADQ_PACK/appsLibConfig/conf/` directory as detailed in the file.

NOTE

There is a `DATAMODEL` associated with this release.

- Update `UPLOAD_MODEL = 1` if the `DATAMODEL` has to be uploaded during the installation.
 - If the `DATAMODEL` is already uploaded before installation, update `UPLOAD_MODEL = 0`.
7. Navigate to the path where the installer archive is extracted, and grant `EXECUTE` permission to the installer file using the following command:

```
chmod 750 OFSAAIUpdate.sh
```
 8. Execute the following software upgrade command:
 9. `./OFSAAIUpdate.sh`
 10. Verify that the ML release is applied successfully by checking the log files generated in the following installation directories:
 - **AAI log:** `OFS_CAP_ADQ_PACK/logs`
 - **IRB log:** `OFS_CAP_ADQ_PACK/OFS_BASEL_IRB/logs`
 - **BASIC log:** `OFS_CAP_ADQ_PACK/OFS_BASEL_BASIC/logs`
 11. In case of any error in the log file, contact [My Oracle Support](#).

2.3 Post Installation Steps

After a successful installation, perform these steps:

1. 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 folder>/jsp_servlet`
 - **WebSphere**
`<Websphere installation directory>/AppServer/profiles/<Profile name>/temp/<Node name>/server1/<Application name>/<.war file name>`
2. Generate the application EAR or WAR file and redeploy the application onto your configured Web Application Server.

For more information creating and deploying the EAR or WAR files, see [OFSAAI User Guide](#).

3. Start all the OFSAAI Services.
For more information on starting the OFSAAI Services, see *the* [OFSAAI User Guide](#).
4. If you are using Basel Analytics, then deploy the following scripts:
 - a. [DM_T2T_FCT_OR_BUSINESS_INDICATOR_DTLS.sql](#)
 - b. [DM_T2T_FCT_REG_CP_CAPITAL_SUMMARY.sql](#)
 - c. [DM_T2T_FCT_REG_MARKET_RISK_EXPOSURES.sql](#)
 - d. [DM_T2T_FRCAS_FCT_SEC_EXPOSURES.sql](#)
 - e. [DM_T2T_FRCAS_FSI_CAP_BANKING_EXPOSURES.sql](#)
 - f. [DM_T2T_FRCAS_FSI_CAP_DERIVATIVES.sql](#)
 - g. [DM_T2T_FRCAS_FSI_CAP_INVESTMENT_EXPOSURES.sql](#)
 - h. [DM_T2T_FRCAS_FSI_CAP_SFT_EXPOSURES.sql](#)
 - i. [DM_T2T_FSI_CAP_OR_CAPITAL_SUMMARY.sql](#)
5. Update the pipeline type of PMF sub pipelines:
 - a. Navigate to the `ficdb/bin` using the command: `cd $FIC_DB_HOME/bin`
 - b. Execute the shell script: `./updatePipelineType.sh`
6. Import the Regulatory Calculation definitions by performing the steps documented in the section Importing Run Definitions in the User Guide based on the required jurisdiction.

NOTE:

1. Regulatory Definition archives created out of an environment version prior to 8.1.2.0.0 are not compatible for import on the later versions.
2. Significant enhancements have been done to the Regulatory Definitions UI in this release. After the environment is upgraded to 8.1.2.4.0, review the selections and resave the existing Regulatory Definitions, if any, under the respective applications.

The Regulatory Calculation definitions for BIS, APRA, CAN, INDIA, EU, HK, SAMA, SGP, THAI, UK, QA, KW, PH and the USA are packaged in the installer as per the following table:

Table 2: Regulatory Calculation Definitions

Dump file	Definitions
BASEL_RUN_DEFINITIONS_INDIA.DMP	IN - Capital Calculation - Standardized Approach IN - Capital Calculation - Advanced IRB Approach IN - Capital Calculation - Foundation IRB Approach
BASEL_RUN_DEFINITIONS_INDIA_PC.DMP	IN - Basel III Post Crisis Reforms - Standardized

Dump file	Definitions
BASEL_RUN_DEFINITIONS_BIS_PC.DMP	BIS - Basel III: Finalizing Post Crisis Reforms Compliance - Standardized Approach BIS - Basel III: Finalizing Post Crisis Reforms Compliance - Mixed Approach with Output Floor BIS - Basel III: Finalizing Post Crisis Reforms Compliance - Mixed Approach without Output Floor
BASEL_RUN_DEFINITIONS_BIS.DMP	BIS - Capital Calculation - Advanced IRB Approach BIS - Capital Calculation - Foundation IRB Approach BIS - Capital Calculation - Standardized Approach
BASEL_RUN_DEFINITIONS_APRA_PC.DMP	APRA - Basel III Post Crisis Reforms - Capital Calculation - Standardized Approach
BASEL_RUN_DEFINITIONS_EU.DMP	EU - CRR II - Capital Calculation - Standardized Approach EU - CRR II - Capital Calculation - Standardized Approach for CR and CCR EU - CRR II - Foundation IRB Approach EU - CRR II - Advanced IRB Approach
BASEL_RUN_DEFINITIONS_CAN_PC.DMP	CAN - Basel III: Finalizing Post Crisis Reforms Compliance - Standardized Approach
BASEL_RUN_DEFINITIONS_HK_PC.DMP	HK - Basel III: Finalizing Post Crisis Reforms Compliance - Standardized Approach
BASEL_RUN_DEFINITIONS_SGP_PC.DMP	SGP - Basel III: Finalizing Post Crisis Reforms Compliance - Standardized Approach
BASEL_RUN_DEFINITIONS_UK.DMP	PRA - Basel 3.0 Compliance - CRR II - Standardized Approach PRA - Basel 3.0 Compliance - CRR II - Foundation IRB Approach PRA - Basel 3.0 Compliance - CRR II - Advanced IRB Approach
BASEL_RUN_DEFINITIONS_USA.DMP	US - Capital Calculation - Standardized Approach US - Capital Calculation - IRB Approach
BASEL_RUN_DEFINITIONS_SAMA.DMP	SAMA - Basel III Capital Calculation - Standardized Approach
BASEL_RUN_DEFINITIONS_SAMA_PC.DMP	SAMA - Basel III: Finalizing Post Crisis Reforms Compliance - Standardized Approach
BASEL_RUN_DEFINITIONS_THAI.DMP	THAI Capital Calculation - Standardized Approach THAI Capital Calculation - Foundation IRB Approach THAI Capital Calculation - Advanced IRB Approach
BASEL_RUN_DEFINITIONS_KW.DMP	KW - Basel III Capital Calculation - Standardized Approach
BASEL_RUN_DEFINITIONS_QA_PC.DMP	QA - Basel III: Finalizing Post Crisis Reforms Compliance - Standardized Approach
BASEL_RUN_DEFINITIONS_PH.DMP	PH - Capital Calculation - Standardized Approach

7. Ensure that you define the reclassification mapping between the **Bank Types** to its corresponding Regulatory Type on the **Regulatory Reclassification** page. Also, review the regulator-specified threshold values in the **Regulatory Threshold** section. Modify these values only if required. For more information, see the **User Interface for Reclassification and Regulatory Predefined Values** section in the [Basel Regulatory Compliance User Guide](#).
8. (Optional) For information about configuring the Price Creation and Discovery run, see the Price Creation and Discovery (PCD) Integration section in the [Oracle Financial Services Basel Regulatory Compliance User Guide](#).
9. The IND jurisdiction (Segment) runs have some changes to their processing flow from the 8.1.2.4.0 release. The final processing tables till 8.1.2.3.0 for IND is populated in the final reporting layer population to aid in any of the custom reporting created out of the processing layer in the earlier versions.

The PMF run scripts related to the processing flow till 8.1.2.3.0 are no longer part of the installer. But, the sub-processes that are mapped in these runs, are part of the installer. Any changes made to these sub-processes (custom or from installer) have an impact across all the jurisdictions that use the same sub-processes. Hence, after the upgrade, it is recommended to follow the 8.1.2.4.0 out-of-box processing logic, which complies with all the regulatory changes applicable as of date.

2.4 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>CommonRESTServlet</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.

OFSAA Support

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

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