

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

Release 8.1.2.3.0

June 2023

ORACLE
Financial Services

OFS Capital Adequacy Application Pack

Copyright © 2023 Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are “commercial computer software” pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by the use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

For information on third party licenses, see the [OFSAA Licensing Information User Manual](#).

Document Control

Version Number	Revision Date	Change Log
01	June 2023	Created the document for the OFS CAP 8.1.2.3.0 release.
02	July 2023	Updated the post-installation steps and added mandatory patches 35340701 and 35536941 instructions.
03	July 2023	Added information about updating the pipeline type of PMF sub-pipelines.
04	July 2023	Added instructions related to bank base role data migration.

Table of Contents

1	Preface	5
1.1	Audience	5
1.1.1	<i>Prerequisites for the Audience</i>	5
1.2	Related Documents	5
1.3	Conventions and Acronyms	6
2	OFS CAP Application Pack Release 8.1.2.3.0	7
2.1	Pre-Installation Requirements	7
2.2	Installing OFS CAP 8.1.2.3.0 ML Release	7
2.3	Post Installation Steps	8
2.4	Configuring Tomcat for User Group Authorization, Data Mapping, and Disabling WADL for the Web Service	11

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 8.1.2.3.0

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 v8.1.2.0.0.

NOTE:

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

- Run the below statements in the atomic schema before the DM upload. This updates the null values to -1 since these columns are part of PK:
 - update FSI_CAP_BANK_RETAIL_EXP set N_CAP_APPROACH_TYPE_SKEY =-1 where N_CAP_APPROACH_TYPE_SKEY is null;
 - update FSI_CAP_EXPOSURE_RW_DETAILS set N_CAP_APPROACH_TYPE_SKEY =-1 where N_CAP_APPROACH_TYPE_SKEY is null;
- Replace the **##INFODOM##** placeholder and execute the [Segment insert.sql](#) script in the Config schema to create a new segment for the UK, Qatar (QA), and Kuwait (KW) jurisdictions.

2.2 Installing OFS CAP 8.1.2.3.0 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 35487842 under the Patches and Updates tab.
2. Download the OFSCAP 8.1.2.0.0 ML RELEASE #2 (8.1.2.3.0) 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 v8.1.2.3.0 installer archive in the Download Directory using the following command:

```
unzip -a p35487842_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. Log in to [My Oracle Support](#), and search for the following patches under the Patches & Updates tab, download and install the mandatory patch:
 - a. 35340701
 - b. 35536941
3. 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](#).

4. Start all the OFSAAI Services.
For more information on starting the OFSAAI Services, see *the* [OFSAAI User Guide](#).
5. Deploy the following scripts in atomic schema:
 - c. Run the [Disable Bank Base Role Constraint.sql](#) script. It disables foreign key references on DIM_BANK_BASE_ROLE table.

NOTE:

This change will be part of Data Model in future releases.

- d. If you are running BASEL Analytics (**RNBISPMF003**),
 - i. Deploy the [disable fcas acct portfolio constraint.sql](#) script. This script disables the foreign key reference of N_ACCT_PORTFOLIO_SKEY in the FCT_COMMON_ACCOUNT_SUMMARY table.
 - e. If you are running **Market Risk**, and the hierarchy re-save batch is executed after installation, deploy the `H0077.sql` atomic script from the installer available at path:
`OFS_CAP_ADQ_PACK/OFS_BASEL_BASIC/bin/scripts/atomic/insert`

6. Replace the placeholders and deploy the following scripts in config schema:

- a. If you are using Basel Analytics, then deploy the following scripts:
 - i. [DM_T2T_FCT_REG_CAP_CP_CTRY_RSK_SUMMARY.sql](#)
 - ii. [DM_T2T_FRCAS_FSI_CAP_SFT_EXPOSURES.sql](#)
 - iii. [DM_T2T_FRCAS_FSI_CAP_INVESTMENT_EXPOSURES.sql](#)
 - iv. [DM_T2T_FRCAS_FSI_CAP_DERIVATIVES.sql](#)
 - v. [DM_T2T_FRCAS_FSI_CAP_BANKING_EXPOSURES.sql](#)

7. 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`

8. From the current release, DIM_PARTY_ROLE table is used as reference for bank base role IDs instead of DIM_BANK_BASE_ROLE table. Historic data points to the DIM_BANK_BASE_ROLE table. To update the reference to DIM_PARTY_ROLE table, follow the Data migration steps as suggested in the **Historic Data Migration from DIM_BANK_BASE_ROLE to DIM_PARTY_ROLE** section of the BIS [User Guide](#).

NOTE:

Perform these steps before triggering any run execution on 8.1.2.3.0.

9. 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 8.1.2.3.0, 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 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
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

Dump file	Definitions
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

10. 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](#).
11. (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](#).

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>CommonRETServlet</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.

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.

- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this manual?

If you find any errors or have any other suggestions for improvement, indicate the title and part number of the documentation along with the chapter/section/page number (if available) and contact the My Oracle Support.

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 or recently released documents.