Oracle Financial Services Balance Computation Engine Application
Installation and Configuration Guide

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Oracle Financial Services Balance Computation Engine Application Installation and Configuration Guide, Release 8.1.1.2.0

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Document Control

This section provides the revisions details of a document.

Table 1-1   Document Control

Version Number	Revision Date	Change Log
1.0	20-December-2023	Created the document and redesigned with instructions for the installation and configuration of the OFSBCE Release 8.1.1.2.0.
2.0	15-March-2024	Updated the Pre-installation Requirements section (36404622).

2
Preface

This document provides instructions to install the Oracle Financial Services Balance Computation Engine (OFSBCE) Application v8.1.1.2.0 Maintenance Level (ML) Release.

Audience

This document is intended for Administrators, Business Users, Strategists, and Data Analysts, who handle installing and maintaining the application pack components and have knowledge of the following:

• OFSAA Application Components

• OFSAA Architecture

• UNIX Commands

• Database Concepts

• OFSBCE Data Model

How this Guide is Organized

The OFSBCE Application Pack Release Notes includes the following sections:

• OFS Balance Computation Engine Application Maintenance Release 8.1.1.2.0: This section provides information about the prerequisites, pre-installation, installation, and post-installation procedures for the OFSBCE Application Release v8.1.1.2.0.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

Oracle strives to keep this and all other related documents updated regularly; visit the OHC Documentation Library and My Oracle Support (MOS) to download the latest version available there. The following is the list of related documents:

See these Oracle resources:

• OHC Documentation Library for the OFS BCE Application Release 8.1.x.x.x product documents:

• Oracle Financial Services Analytical Applications (OFSAA) Technology Matrix Release 8.1.1.0.0

• OHC Documentation Library for the OFS AAAI Application Pack Release 8.1.1.x.x product documents:

• OHC Documentation Library for Oracle Financial Services Data Foundation Application Pack

• Oracle Financial Services Data Model Utilities User Guide Release 8.1.1.0.0

Conventions

The following text conventions are used in this document.

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Abbreviations

The following table lists the abbreviations used in this document.

Table 2-1   Abbreviations

Conventions	Description
AIX	Advanced Interactive eXecutive
DEFQ	Data Entry Forms and Queries
DML	Data Manipulation Language
EAR	Enterprise Archive
EJB	Enterprise JavaBean
ERM	Enterprise Resource Management
FTP	File Transfer Protocol
GUI	Graphical User Interface
HTTPS	Hypertext Transfer Protocol Secure
J2C	J2EE Connector
J2EE	Java 2 Enterprise Edition
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
OFS	Oracle Financial Services
OFSAAI	Oracle Financial Services Analytical Application Infrastructure
OFSDF	Oracle Financial Services Data Foundation
OFSBCE	Oracle Financial Services Balance Computation Engine
OHC	Oracle Help Center
OLAP	On-Line Analytical Processing
OS	Operating System

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Table 2-1   (Cont.) Abbreviations

Conventions	Description
RAM	Random Access Memory
RDMS	Relational Database Management System
SFTP	Secure File Transfer Protocol
SID	System Identifier
SSL	Secure Sockets Layer
TDE	Transparent Data Encryption
TNS	Transparent Network Substrate
URL	Uniform Resource Locator
VM	Virtual Machine
WAR	Web Archive
XML	Extensible Markup Language

3

OFS Balance Computation Engine Application Maintenance Release v8.1.1.2.0

This Maintenance Release of the Oracle Financial Services Balance Computation Engine Application includes all enhancements and bug fixes that are done since the OFSBCE Application v8.1.1.0.0 release.

> **Note:**
>
> The schemas or domains for OFSBCE are referred to as OFS_IBCE.

3.1 Pre-installation Requirements

Following are the pre-installation requirements for the OFSBCE Application v8.1.1.2.0 release, install in the same sequence as mentioned below:

> **Note:**
>
> If your environment setup has FSDF and OIDF at a higher version (8122) and BCE in a lower version (811), you must merge models and use the incremental model upload if there are any customizations to upgrade BCE to 8.1.1.2.0 version.

- Oracle Financial Services Balance Computation Engine Application v8.1.1.0.0 (download from the Oracle Software Delivery Cloud) plus other prerequisite OFSBCE patches (see the Pre-installation section in the Oracle Financial Services Balance Computation Engine Application Installation and Configuration Guide Release 8.1.1.0.0) must be installed and configured on your machine.
- Oracle Financial Services Balance Computation Engine Application v8.1.1.1.0 (ID 35114757).
- Oracle Financial Services Balance Computation Engine Application v8.1.1.1.1 (ID 35199458).
- Oracle Financial Services Balance Computation Engine Application v8.1.1.1.2 (ID 35479690).
- Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack v8.1.2.4.0 (ID 35681234)
- Oracle Financial Services Balance Computation Engine Application v8.1.1.2.0 (ID 35854435).

> **Note:**
>
> For information about the hardware and software requirements, see the Oracle Financial Services Analytical Applications (OFSAA) Technology Matrix Release 8.1.1.0.0.

3.2 Applying this Maintenance Release

This section provides information about installing this Maintenance Release.

> **Note:**
>
> This Maintenance Release patch is applicable only for an RDBMS mode of installation.

3.2.1 Downloading OFS Balance Computation Engine Application

To download and extract the release contents, follow these steps:

> **Note:**
>
> Enable the unlimited cryptographic policy. By default, JCE Policy JAR files are available for Java.

1. Log in to My Oracle Support. In the **Patches & Updates** tab, search for patch ID **35854435**.

2. Download the OFSBCE Application v8.1.1.2.0 archive file and copy it to your OFSAA server in the Binary mode.

    > **Note:**
    >
    > The archive files are different for different operating systems such as AIX, Solaris, and RHEL or Oracle Linux.

3. Stop all the OFSAAI Services. For more information, see the Stop the Infrastructure Services section in the Oracle Financial Services Balance Computation Engine Application Installation and Configuration Guide Release 8.1.1.0.0.

4. Log in to the OFSAA Server as a non-root user.

5. Execute the following command:

    `chmod -R 750 $FIC_HOME`

6. Assign the WRITE permission to the files and folders such as `commonscripts`, `EXEWebService`, `ficapp`, `ficweb`, and `ficdb` by using the following command: `chmod -R 775 *`

7. If you have an Unzip utility, skip to the next step. Download the Unzip utility (OS-specific) `unzip_<os>.Z` and copy it in the Binary mode to the directory that is included in the `PATH`

variable, in the `$HOME` path or directory in which you copied the OFSBCE Application v8.1.1.2.0 installer.

   a. a. Extract the unzip installer file using the following 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.

   b. Give the EXECUTE permission to the file using the following command:

```
chmod 751 OFS_IBCE_8.1.1.2.0_<OperatingSystem>.zip
```

8. Extract the contents of the OFSBCE v8.1.1.2.0 archive file using the following command:

```
unzip_<os> -a <name_of_the_file_to_be_unzipped>
```

> **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: When this release is extracted from the archive, it creates a folder named OFS_IBCE_PACK. Rename or remove any existing folder with the same name, which exists in the path where the release archive is copied.
>
> - -a option in this step is mandatory to unzip the archive file.
>   For example:
>   ```
>   unzip_aix -a OFS_IBCE_8.1.1.2.0_<OperatingSystem>.zip
>   ```

3.2.2 Pre-installation Activities

This section provides pre-installation activities required for the installation of the OFSBCE Application v8.1.1.2.0 release.

3.2.2.1 Model Upload Parameter

You must upload the configuration file params.conf before triggering the installation. The params.conf file is present in the /OFS_IBCE_PACK/appsLibConfig/conf/ directory. The following are the input parameters for the params.conf file:

Model Upload Process

- The required input value is 0 or 1.

  – 0 is an indication to skip the model upload process.

  – 1 is an indication to trigger the model upload process.

- If the value is 1, then select the type of the model for the model upload process:

  – 0 indicates the Released Data Model.

  – 1 indicates a Customized Data Model.

If the value is 1, then provide the inputs for the Data Model Name and the Path of the Data Model.

3.2.3 Installing the OFS Balance Computation Engine Application

To install the OFSBCE Application v8.1.1.2.0 release, follow these steps:

1. Assign the EXECUTE permission to the Maintenance release archive file.

2. Navigate to the `./OFS_IBCE_PACK` directory and execute the following command: `chmod 750 OFSAAIUpdate.sh`

3. Execute the `OFSAAIUpdate.sh` file using the following command:

   `./OFSAAIUpdate.sh`

4. Verify if the release is applied successfully by checking the log file generated in the installation folder. The log file such as `OFS_IBCE_installation.log` is stored in the `/OFS_IBCE_PACK/OFS_IBCE/logs/` directory. You can ignore the ORA-00001, ORA-00955, ORA-02260, ORA-01031, and ORA-01430 errors in the log file. For any other errors, contact My Oracle Support.

3.2.3.1 Platform-related Post-installation Activities

After the OFSBCE Application is successfully installed, to perform the OFSAAI related post-installation activities, follow these steps:

1. Clear the application cache.

2. Navigate to the following directory depending on the configured web application server and delete the following 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>/<auto generated folder>/jsp_servlet`

   - **Websphere**: `<Websphere installation directory>/AppServer/profiles/<Profile name>/temp/<Node name>/server1/<Application name>/<.war file name>`

3. Add `umask 0027` in the `.profile` file of the UNIX account, which manages the webserver to ensure restricted access permissions.

4. Perform any necessary additional configuration mentioned in the Additional Configuration section in the Oracle Financial Services Balance Computation Engine Application Installation and Configuration Guide Release 8.1.1.0.0.

5. Generate the application EAR or WAR file, and redeploy the application on the configured web application server. For more information on generating and deploying the EAR or WAR file, see the Create and Deploy the EAR/WAR Files section in the Oracle Financial Services Advanced Analytical Applications Infrastructure Installation Guide Release 8.1.1.0.0.

6. After the successful installation of the OFSBCE Application v8.1.1.2.0 Release, restart all the OFSAAI services. For more information, see the Start the Infrastructure Services section in the Oracle Financial Services Balance Computation Engine Application Installation and Configuration Guide Release 8.1.1.0.0.

3.2.3.2 Mapping Users to the Analyst View Role

The ROLECODE and USER GROUP "BCANALYSTVIEW" has been added from OOB in this release. Navigate to Identity Management component and approve to map user (existing or create new user) to this user group. The BCE screens (Legal entity, Fiscal period, Revaluation settings, Currency conversion, Portfolio) are displayed in read only mode for the users mapped to this group.

4
OFSAA Support

Raise a Service Request (SR) in My Oracle Support for queries related to the OFSAA applications.

4.1 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 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/recently released documents.

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